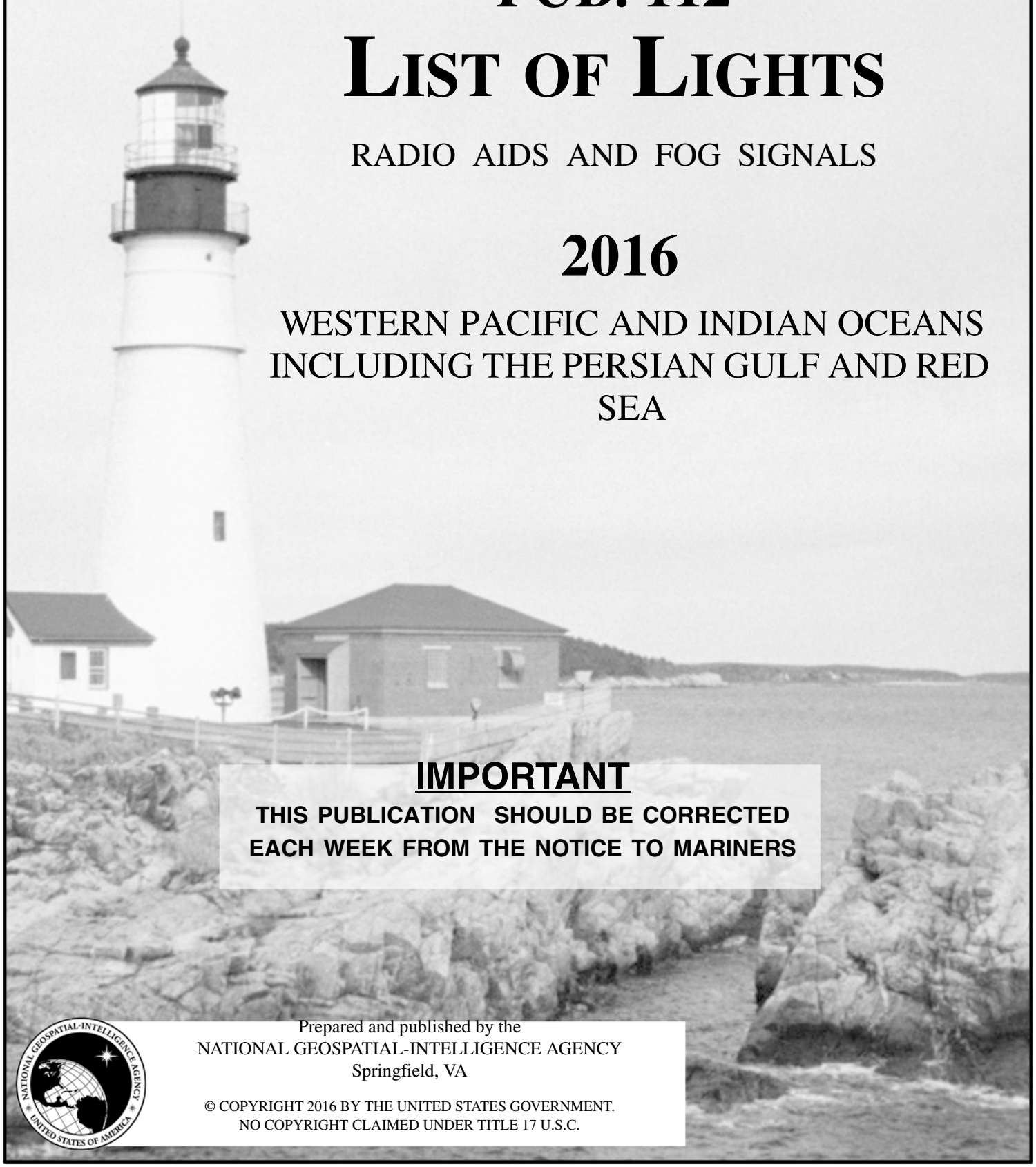
PUB. 112
LIST OF LIGHTS

RADIO AIDS AND FOG SIGNALS

2016

WESTERN PACIFIC AND INDIAN OCEANS
INCLUDING THE PERSIAN GULF AND RED SEA



IMPORTANT

THIS PUBLICATION SHOULD BE CORRECTED EACH WEEK FROM THE NOTICE TO MARINERS

Prepared and published by the
NATIONAL GEOSPATIAL-INTELLIGENCE AGENCY
Springfield, VA

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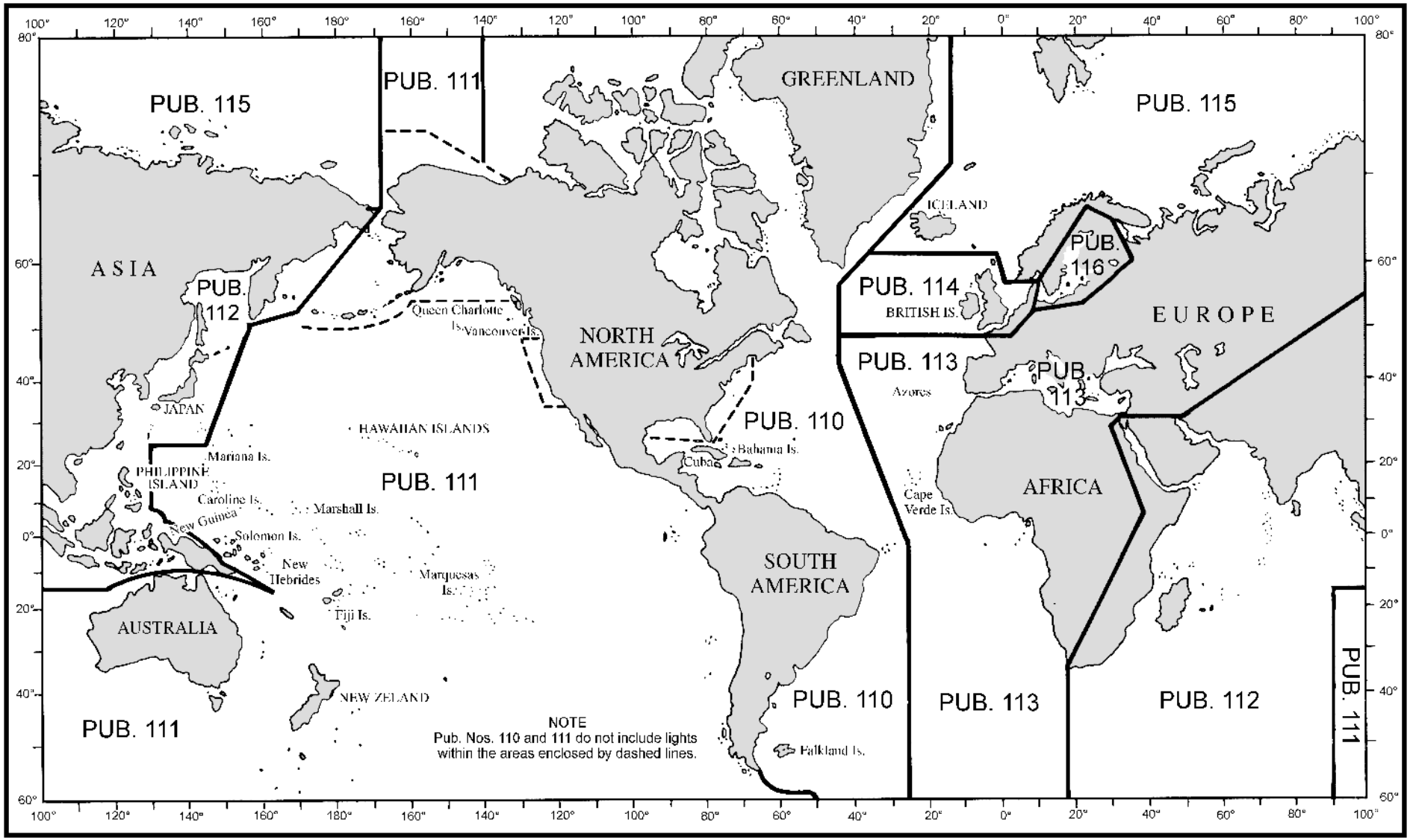
LIST OF LIGHTS LIMITS
NATIONAL GEOSPATIAL-INTELLIGENCE AGENCY



WARNING ON USE OF FLOATING AIDS TO NAVIGATION TO FIX A NAVIGATIONAL POSITION

The aids to navigation depicted on charts comprise a system consisting of fixed and floating aids with varying degrees of reliability. Therefore, prudent mariners will not rely solely on any single aid to navigation, particularly a floating aid.

The buoy symbol is used to indicate the approximate position of the buoy body and the sinker which secures the buoy to the seabed. The approximate position is used because of practical limitations in positioning and maintaining buoys and their sinkers in precise geographical locations. These limitations include, but are not limited to, inherent imprecisions in position fixing methods, prevailing atmospheric and sea conditions, the slope of and the material making up the seabed, the fact that buoys are moored to sinkers by varying lengths of chain, and the fact that buoy and/or sinker positions are not under continuous surveillance but are normally checked only during periodic maintenance visits which often occur more than a year apart. The position of the buoy body can be expected to shift inside and outside the charting symbol due to the forces of nature. The mariner is also cautioned that buoys are liable to be carried away, shifted, capsized, sunk, etc. Lighted buoys may be extinguished or sound signals may not function as the result of ice or other natural causes, collisions, or other accidents.

For the foregoing reasons, a prudent mariner must not rely completely upon the position or operation of floating aids to navigation, but will also utilize bearings from fixed objects and aids to navigation on shore. Further, a vessel attempting to pass close aboard always risks collision with a yawing buoy or with the obstruction the buoy marks.

PREFACE

The 2016 edition of Pub. 112, List of Lights, Radio Aids and Fog Signals for the Western Pacific and Indian Oceans including the Persian Gulf and Red Sea, cancels the previous edition of Pub. 112.

This edition contains information available to the National Geospatial-Intelligence Agency (NGA) up to 24 September 2016, including Notice to Mariners No. 39 of 2016.

A summary of corrections subsequent to the above date will be in Section II of the Notice to Mariners which announced the issuance of this publication.

In the interval between new editions, corrective information affecting this publication will be published in the Notice to Mariners and must be applied in order to keep this publication current.

Nothing in the manner of presentation of information in this publication or in the arrangement of material implies endorsement or acceptance by NGA in matters affecting the status and boundaries of States and Territories.

RECORD OF CORRECTIONS
PUBLISHED IN WEEKLY NOTICE TO MARINERS

NOTICE TO MARINERS

YEAR 2016				YEAR 2017			
1.....	14.....	27.....	40.....	1.....	14.....	27.....	40.....
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INTRODUCTION

The National Geospatial-Intelligence Agency publishes a List of Lights, Radio Aids and Fog Signals in seven volumes divided geographically as shown on the index chartlet on the inside front cover of this book. Major fixed and outermost floating aids to navigation, such as sea buoys, safety fairway buoys, traffic separation buoys, etc., are listed. Other floating aids are not generally listed. Storm signals, signal stations, radio direction finders, radiobeacons, RACONs and RAMARKs located at or near lights are found in this List. Radiobeacons are listed in a separate section in the back of this publication.

The date to which this publication has been corrected can be found in the Preface. In the interval between new editions, corrective information affecting this publication will be published in Section II of Notice to Mariners, and must be applied to keep this publication current. All of these corrections should be applied in the appropriate places and their insertion noted in the "Record of Corrections."

Mariners and other users are requested to forward new or corrective information useful in the correction of this publication to:

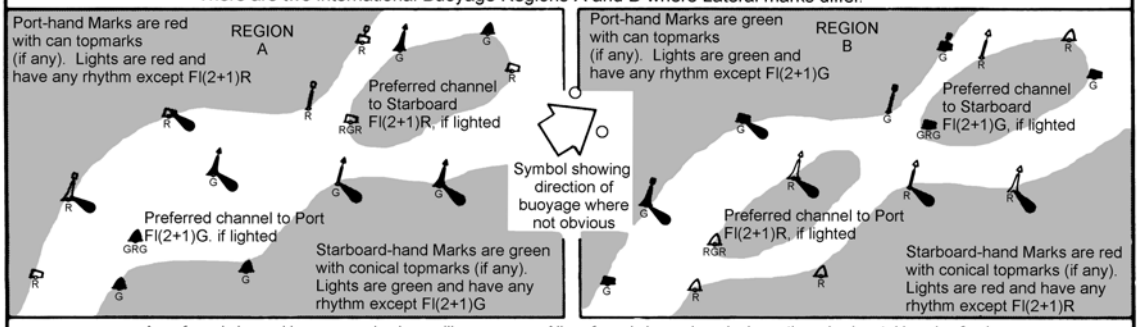
MARITIME SAFETY OFFICE
N64-SFH
NATIONAL GEOSPATIAL-INTELLIGENCE AGENCY
7500 GEOINT DRIVE
SPRINGFIELD, VA 22150-7500

Buoys and Beacons IALA* Buoyage System

Where in force, the IALA System applies to all fixed and floating marks and occasionally lighthouses, sector lights, range marks, lightships and LANBY's (large automatic navigational buoys).

The standard buoy shapes are cylindrical (can), conical, spherical, pillar (including high focal plane), and spar, but variations may occur, for example lightfloats. In the illustrations below, only the standard buoy shapes are used. In the case of fixed beacons (lighted or unlighted), only the shape of the topmark is of navigational significance.

Lateral Marks (used in conjunction with a conventional direction of buoyage) are generally for well-defined channels. There are two international Buoyage Regions-A and B-where Lateral marks differ.



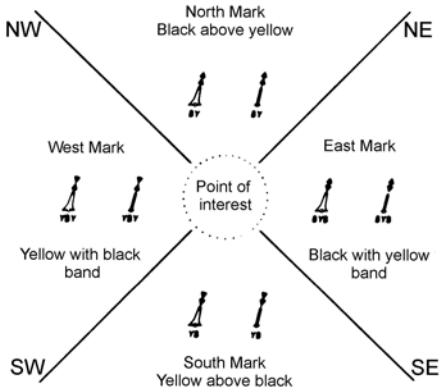
A preferred channel buoy may also be a pillar or a spar All preferred channel marks have three horizontal bands of color

All marks other than Lateral Marks are the same in REGIONS A and B

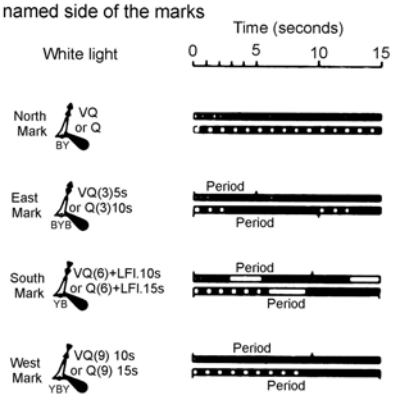
UNLIGHTED MARKS

Cardinal Marks indicating navigable water to the named side of the marks

Topmark 2 black cones



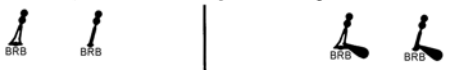
LIGHTED MARKS



* The same abbreviations are used for lights on spar buoys and beacons The periods, 5s, 10s and 15s, may not always be charted.

Isolated Danger Marks, stationed over dangers with navigable water around them.

Body black with red band (s)
Topmark: 2 black balls



Safe Water Marks, such as mid-channel and landfall marks.

Body red and white stripes
Topmark (if any): red ball

Special Marks, not primarily to assist navigation but to indicate special features.

Body (shape optional): yellow
Topmark (if any) yellow X

BEACONS with IALA System topmarks are charted by upright symbols. eg. (minor beacon) or, on smaller-scale charts:

Beacon towers are charted: etc (occasionally lighted)

RADAR REFLECTORS on buoys and beacons are not generally charted.

COLOR ABBREVIATIONS under symbols, especially those of spar buoys, may be omitted, or may be at variance with symbols shown above.

LIGHTFLOATS: The IALA System is not usually applied to large lightfloats (replacing manned lightships) but may be applied to smaller lightfloats.

* IALA is an abbreviation of International Association of Lighthouse Authorities

THE NATIONAL GEOSPATIAL-INTELLIGENCE AGENCY MARITIME SAFETY WEBSITE

The National Geospatial-Intelligence Agency (NGA) Maritime Safety Website provides worldwide remote query access to extensive menus of maritime safety information 24 hours a day.

Databases made available for access, query and download include Chart Corrections, Publication Corrections, NGA/DLIS Catalog Corrections, Chart and Publication Reference Data (current edition number, dates, title, scale), NGA List of Lights, USCG Light Lists, WorldWide Navigational Warning Service (WWNWS) Broadcast Warnings, Maritime Administration (MARAD) Advisories, Department of State Special Warnings, Mobile Offshore Drilling Units (MODUs), Anti-Shipping Activity Messages (ASAMs), World Port Index, and Radio Navigational Aids. Publications that are also made available as PDF files include the U.S. Notice to Mariners, U.S. Chart No. 1, The American Practical Navigator (Bowditch), International Code of Signals, Radio Navigational Aids, World Port Index, Distances Between Ports, Sight Reduction Tables for Marine and Air Navigation, and the Radar Navigation and Maneuvering Board Manual.

The Maritime Safety Website can be accessed via the NGA Homepage (**www.nga.mil**) under the Products and Services link or directly at **http://msi.nga.mil/NGAPortal/MSI.portal**. Any questions concerning the Maritime Safety Website should be directed to:

MARITIME SAFETY OFFICE
ATTN: NSS STAFF
N64-SFH
NATIONAL GEOSPATIAL-INTELLIGENCE AGENCY
7500 GEOINT DRIVE
SPRINGFIELD, VA 22150-7500

Telephone: (1) 571-557-7103 or DSN 547-7103
E-mail: webmaster_nss@nga.mil

DESCRIPTION

(Lights, Buoys, RACONs, RAMARKs)

Information is tabulated in eight columns as follows:

Column 1: The number assigned to each light, RACON or RAMARK by this Agency. International numbers are listed below this number in italic type and in a cross reference in the back of the book. RACONs and RAMARKs located at a light are listed with the light. Those not located at a light are assigned separate numbers.

Column 2: Name and descriptive location of the light or buoy, RACON or RAMARK. A dash (-) or dashes (--) in this column is used to reduce repetition of principal geographic names. This column is intended to describe the location of the navigational aid and to distinguish it from others in proximity. Differences in type indicate the following:

Bold-faced: Lights intended for landfall or having a visibility (range) of 15 miles or more.

Italics: Floating aids.

ITALICS CAPITALS: Lightships and LANBYs.

Roman: All other lights not mentioned above.

Column 3: Approximate latitude and longitude of a navigational aid to the nearest tenth of a minute, intended to facilitate chart orientation (use column 2 and the appropriate chart for precise positioning).

Column 4: Light, buoy, RACON or RAMARK characteristic (see Characteristics of Lights chart for explanation of lights).

Column 5: Height of light in feet (Roman type) equivalent measurement (below) given in meters (Bold-faced type).

Column 6: Range. The distance, expressed in nautical miles, that a light can be seen in clear weather or that a RACON or RAMARK can be received.

Column 7: Description of the structure and its height in feet.

Note–Stripes are vertical. Bands are horizontal. The use of the term “diagonal stripes” is the exception.

Column 8: Remarks–sectors, fog signals, radar reflectors, minor lights close by, radiobeacons, storm signals, signal stations, radio direction finders, and other pertinent information.

Geographic names or their spellings do not necessarily reflect recognition of the political status of an area by the United States Government.

The names of lights may differ from geographic names on charts.

ABBREVIATIONS

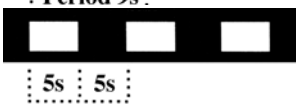
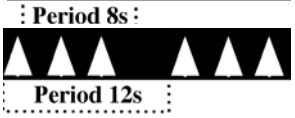
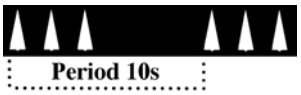
Where the lights of different countries intermingle in the list they are distinguished by the following letters:

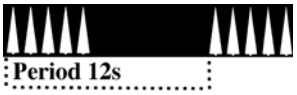
(Aus.)	Australia	(J.)	Japan
(C.)	China	(M.)	Malaysia
(F.)	France	(P.)	Portugal
(Ind.)	Indonesia	(T.)	Thailand
(In.)	Iran	(U.K.)	United Kingdom
(Iq.)	Iraq	(U.S.)	United States

Other abbreviations:

Al.—alternating
bl.—blast
Bu.—blue
Dir.—directional
ec.—eclipsed
ev.—every
F.—fixed
Fl.—flashing
fl.—flash
G.—green
horiz.—horizontal
intens.—intensified
I.Q.— interrupted quick flashing
Iso.—isophase
I.V.Q.—interrupted very quick flashing
Km.— kilometer (0.62137 mile)
L.Fl.—long flashing
lt.—lit
Mo.—Morse code
min.—minute
obsc.—obscured
Oc.—occulting
Or.—orange
Q.—quick flashing
R.—red
s.—seconds
si.—silent
U.Q.—ultra quick flashing
unintens.—unintensified
vert.—vertical
Vi.—violet
vis.—visible
V.Q.— very quick flashing
W.—white
Y.—yellow

CHARACTERISTICS OF LIGHTS

TYPE	ABBR.	GENERAL DESCRIPTION	ILLUSTRATION
Fixed	F.	A continuous and steady light.	
Occulting	Oc.	The total duration of light in a period is longer than the total duration of darkness and the intervals of darkness (eclipses) are usually of equal duration. Eclipse regularly repeated.	
Group occulting	Oc.(2)	An occulting light for which a group of eclipses, specified in number, is regularly repeated.	
Composite group occulting	Oc.(2+1)	A light similar to a group occulting light except that successive groups in a period have different numbers of eclipses.	
Isophase	Iso.	A light for which all durations of light and darkness are clearly equal.	
Flashing	Fl.	A light for which the total duration of light in a period is shorter than the total duration of darkness and the appearances of light (flashes) are usually of equal duration (at a rate of less than 50 flashes per minute).	
Long flashing	L.Fl.	A single flashing light for which an appearance of light of not less than 2 sec. duration (long flash) is regularly repeated.	
Group flashing	Fl.(3)	A flashing light for which a group of flashes, specified in number, is regularly repeated.	
Composite group flashing	Fl.(2+1)	A light similar to a group flashing light except that successive groups in a period have different numbers of flashes.	
Quick flashing	Q.	A light for which a flash is regularly repeated at a rate of not less than 50 flashes per minute but less than 80 flashes per minute.	
Group quick flashing	Q.(3)	A light for which a specified group of flashes is regularly repeated; flashes are repeated at a rate of not less than 50 flashes per minute but less than 80 flashes per minute.	
	Q.(9)		
	Q.(6)+L.Fl.		

TYPE	ABBR.	GENERAL DESCRIPTION	ILLUSTRATION
Interrupted quick flashing	I.Q.	A light for which the sequence of quick flashes is interrupted by regularly repeated eclipses of constant and long duration.	
Very quick flashing	V.Q.	A light for which a flash is regularly repeated at a rate of not less than 80 flashes per minute but less than 160 flashes per minute.	
Group very quick flashing	V.Q.(3)	A light for which a specified group of very quick flashes is regularly repeated.	
	V.Q.(9)		
	V.Q.(6)+L.Fl.		
Interrupted very quick flashing	I.V.Q.	A light for which the sequence of very quick flashes is interrupted by regularly repeated eclipses of constant and long duration.	
Ultra quick flashing	U.Q.	A light for which a flash is regularly repeated at a rate of not less than 160 flashes per minute.	
Interrupted ultra quick flashing	I.U.Q.	A light for which the sequence of ultra quick flashes is interrupted by regularly repeated eclipses of constant and long duration.	
Morse code	Mo.(U)	A light for which appearances of light of two clearly different durations are grouped to represent a character or characters in Morse Code.	
Fixed and flashing	F.Fl.	A light for which a fixed light is combined with a flashing light of greater luminous intensity.	
Alternating light	Al.	A light showing different colors alternately.	
NOTE - Alternating lights may be used in combined form with most of the previous types of lights.			

NOMENCLATURE OF LIGHTS

Lights exhibit a distinctive appearance by which they are recognized, e.g. Fixed, Flashing, Group Flashing, etc. The properties of their appearance, by which they are distinguished, are referred to as the *characteristics* of the light. The principal characteristics are generally the sequence of intervals of light and darkness, and, in some cases, the sequence of colors of light exhibited.

Fixed lights—those which exhibit a continuous steady light.

Rhythmic lights—those which exhibit a sequence of intervals of light and eclipse (repeated at regular intervals) in a manner described in Chart No. 1 and this volume.

Alternating lights—rhythmic lights which exhibit different colors during each sequence.

Period of a light—the time occupied by an entire cycle of intervals of light(s) and eclipse(s).

Range: Meteorological visibility—the greatest distance at which a black object of suitable dimensions can be seen and recognized against the horizon sky or, in the case of night observations, could be seen and recognized if the general illumination were raised to the normal daylight level.

Luminous range of a light—the greatest distance at which a light can be seen merely as a function of its luminous intensity, the meteorological visibility, and the sensitivity of the observer's eyes.

Nominal range of the light—the luminous range of a light in a homogeneous atmosphere in which the meteorological visibility is 10 nautical miles.

Geographical range of a light—the greatest distance at which a light can be seen as a function of the curvature of the earth, the height of the light source and the height of the observer.

The visibility of a light is usually the distance that it can be seen in clear weather and is expressed in nautical miles. Visibilities listed are values received from foreign sources.

Range lights—two or more lights at different elevations, so situated to form a range (leading line) when brought into transit. The light nearest the observer is the *front light* and the one farthest from the observer is the *rear light*. The front light is normally at a lower elevation than the rear light.

Directional lights—lights illuminating a sector of very narrow angle and intended to mark a direction to be followed.

Vertical lights—Two or more lights disposed vertically or geometrically to form a triangle, square, or other figure. If the individual lights serve different purposes, those of lesser importance are called *Auxiliary lights*.

Occasional lights—lights exhibited only when specially needed:

(a) *Tidal light*—shown at the entrance of a harbor, to indicate tide and tidal current conditions within the harbor.

(b) *Fishing light*—for the use of fishermen and shown when required.

(c) *Private light*—maintained by a private authority for its own purposes. The mariner should exercise special caution when using a private light for general navigation.

Seasonal lights—usually shown only during the navigation season or for a lesser time period within that season.

Articulated lights—offshore aids to navigation consisting of a length of pipe attached directly to a sinker by means of a pivot or such other device employing the principle of the universal joint. The positional integrity is intermediary between that of a buoy and a fixed aid.

Aeronautical lights—lights of high intensity which may be the first lights observed at night from vessels approaching the coast. Those lights situated near the coast are listed in the List of Lights in order that the navigator may be able to obtain more information concerning their description.

These lights are not designed or maintained for marine navigation and they are subject to change without prompt notification.

These lights are indicated in this List by the designation AVIATION LIGHT and are placed in geographical sequence in the body of the text along with lights for surface navigation.

Aeromarine lights—marine-type lights for which part of the beam is deflected to an angle of 10 to 15 degrees above the horizon to facilitate use by aircraft.

Sector limits and arcs of visibility—these are arranged clockwise and are given from seaward toward the light. Thus, in the diagram, the sectors of the light are defined as: obscured from shore to 302°, red to 358°, green to 052°, white to shore. These are bearings of the light as seen from a vessel crossing the sector lines.

Under some conditions of the atmosphere, white lights may have a reddish hue. The mariner should not judge solely by color where there are sectors but should verify this position by taking a bearing of the light. On either side of the line of demarcation between white and red there is always a small sector of uncertain color, as the edges of a sector of visibility cannot be clearly defined.

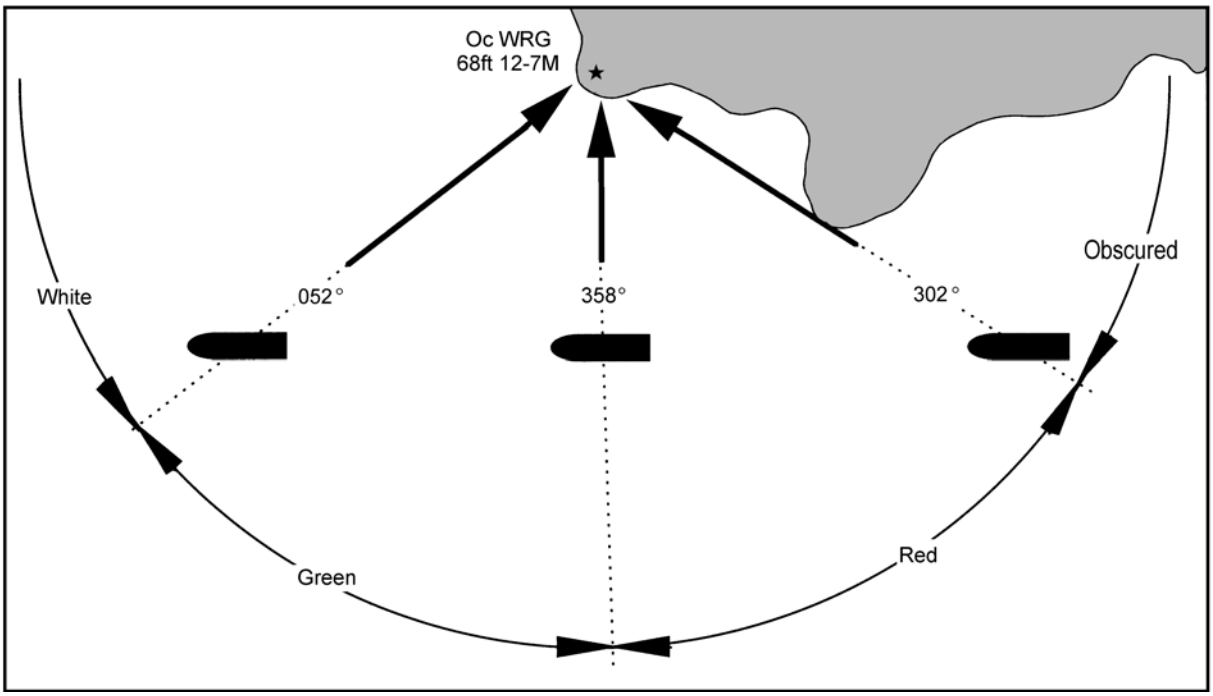
When a light is obscured by adjoining land and the arc of visibility is given, the bearing on which the light disappears may vary with the distance from which it is observed. When the light is cut off by a sloping point of land or hill, the light may be seen over a wider arc by a ship farther off than by one closer.

Bearings—all bearings are true, measured clockwise from 000°, and given in degrees or degrees and minutes.

Russian lights are shown throughout the winter when icebreakers are working.

The latest *Russian* charts and publications give only sufficient details for navigation to the ports open to interna-

tional trade. Thus, in this volume, only those lights along the routes to such ports can be assumed to be correct. Elsewhere the latest available information, often not recent, is listed.



Courses should be set to pass all floating aids to navigation with sufficient clearance to avoid the possibility of collision from any cause. Experience shows that floating aids to navigation cannot be safely used as leading marks to be passed close aboard, but should always be left broad off the course, whenever searoom permits.

When approaching a lightship, superbuoy, or a station on a submarine site on radio bearings, the risk of collision will be avoided by insuring that the radio bearing does not remain constant.

Most lightships and large buoys are anchored with a very long scope of chain and, as a result, the radius of their swinging circle is considerable. The charted position is the location of the anchor. Furthermore, under certain conditions of wind and current, they are subject to sudden and unexpected sheers which are certain to hazard a vessel attempting to pass close aboard.

During extremely heavy weather and due to their exposed locations, lightships may be carried off station. The mariner should, therefore, not implicitly rely on a lightship maintaining its precisely charted position during and immediately following severe storms. A lightship known to be off station will secure her light, fog signal, and radiobeacon and fly the International Code signal "LO" signifying "I am not in my correct position."

Lightships in *India* carry a white riding light on the forestay.

The following regulations have been established for lightships in the Hugli River:

A white light is exhibited from the forestay of each lightship, at a height of 2m, above the rail, for the purpose of showing in which direction the vessel is riding when at her station. Attended lightships out of position will not display their distinguishing mark; at night, the station light will be extinguished, a fixed red light shown at the bow and stern and red and white flares burnt every 15 minutes. If an attended lightship is in danger and requires assistance from shore, explosive rockets will be fired by day and, during fog, a bell will be rung at intervals of about 1 minute only when in danger of collision.

From 15 March to 31 October the pilot vessel on duty at Sandheads will exhibit, every 15 minutes between sunset and sunrise, a searchlight beam at an elevation of 30°. The light will be revolved from east, through south, to west and back again, the total period being 2 minutes.

Indonesian lights are unreliable, being frequently irregular or extinguished.

Lightships in *Iraq*, when out of position, will discontinue their characteristic lights and fog signals. They will show instead two black balls, one forward and one aft, or two red lights, one forward and one aft. In addition they will hoist the signal "LO" or will show a red and a white light, or flare-up light, every 15 minutes. Red flags may be used instead of the black ball.

A lightship under way shows the same lights, and makes the same sound signals as other vessels under way, and by day hoists two black balls or red flags, one forward and one aft.

Korean lights are unreliable, being frequently irregular or extinguished.

Lights in the *Philippines* are unreliable, being frequently irregular or extinguished.

Lightships in *Thailand*, when out of position, discontinue their characteristic lights. They will show instead two black balls, one forward and one aft, and hoist the signal "LO" at the yardarm, or will show two red lights, one forward and one aft, and a white light simultaneously at least every 15 minutes.

The latest *Russian* charts and publications give only sufficient details for navigation to ports open to international trade. Thus, in this volume, only those lights along the routes to such ports can be assumed to be correct. Elsewhere the latest available information, often not of very recent date, is listed.

Lightships remain on their stations during the period of navigation only; if forced to leave stations on account of ice they are replaced as soon as possible.

By day they show a ball over a yellow flag with a blue St. George's cross and, by night, carry a white riding light. If a vessel is seen to be running into danger the signal "NF" of the International Code of Signals is hoisted, and if not immediately seen, rockets with two explosions and bright stars may be fired every minute; by night rockets only are used.

When not on their proper stations, the light vessels discontinue their characteristic lights and fog signals and, if possible, will lower their daymarks. They will show instead two black balls, one forward and one aft, or two red lights, one forward and one aft. In addition they will hoist the signal "LO" or show a red and a white flare-up light or flash simultaneously, at least every 15 minutes.

Red flags may be displayed in place of the black balls and red and a white light shown simultaneously may be used in place of the flare-up light or flash.

A lightship under way shows the same lights and makes the same sound signals as other vessels under way and, if preceding under its own power, hoists two black balls, one forward and one aft.

Reserve lightships are painted red and equipped with two masts. By day they display a red ball at each mast, and by night exhibit a fixed red light from the same positions. Fog signals are sounded and the warning signals described above are employed.

Fog bells at lighthouses and lightvessels are sounded, unless otherwise stated in the following uniform manner:

(a) at lighthouses: in groups of double strokes, the interval between the groups being not more than 3 minutes.

(b) at lightships: in groups of triple strokes, the interval between the groups being not more than 2 minutes.

When the fog signal of an approaching vessel is heard, the intervals between the double and triple strokes in the groups are reduced and the bell is sounded continuously in double or triple strokes until the vessel is past the light or clear of danger.

FOG SIGNALS

The function of a fog signal in the system of aids to navigation is to warn of danger and to provide the mariner with an audible means of approximating his position relative to the fog signal when the station, or any visual signal which it displays, is obscured from view by atmospheric conditions.

Fog signals depend upon the transmission of sound through air. As aids to navigation, they have certain inherent defects that should be considered. Sound travels through the air in a variable and frequently unpredictable manner.

It has been established that:

(a) fog signals are heard at greatly varying distances and that the distance at which a fog signal can be heard may vary with the bearing of the signal and may be different on different occasions;

(b) under certain conditions of atmosphere, when a fog signal has a combination of high and low tones, it is not unusual for one of the tones to be inaudible. In the case of sirens, which produce a varying tone, portions of the blast may not be heard;

(c) there are occasionally areas close to the signal in which it is wholly inaudible. This is particularly true when the fog signal is screened by intervening land or other obstructions;

(d) fog may exist a short distance from a station and not be observable from it, so that the signal may not be in operation;

(e) even though a fog signal may not be heard from the deck or bridge of a ship when the engines are in motion, it may be heard when the ship is stopped, or from a quiet position. Sometimes it may be heard from aloft though not on deck;

(f) the intensity of the sound emitted by a fog signal may be greater at a distance than in immediate proximity.

All these considerations point to the necessity for the utmost caution when navigating near land in fog. Particular attention should be given to placing lookouts in positions in which the noises in the ship are least likely to interfere with hearing a fog signal. Fog signals are valuable as warnings, but the mariner should not place implicit reliance upon them in navigating his vessel. They should be considered solely as warning devices.

Among the devices in common use as fog signals are:

Radiobeacons which broadcast simple dot-and-dash combinations by means of a transmitter emitting modulated continuous waves;

Diaphones which produce sound by means of a slotted reciprocating piston actuated by compressed air. Blasts may consist of two tones of different pitch, in which case the first part of the blast is high and the last of a low pitch. These alternate pitch signals are called “two-tone;”

Diaphragm horns which produce sound by means of a diaphragm vibrated by compressed air, steam, or electricity. Duplex or triplex horn units of differing pitch produce a chime signal;

Nautophones, electrically operated instruments, each comprising a vibrating diaphragm, fitted with a horn, which emits a high note similar in power and tone to that of the reed;

Reed horns which produce sound by means of a steel reed vibrator by compressed air;

Sirens which produce sound by means of either a disk or a cup-shaped rotor actuated by compressed air or electricity;

Whistles which produce sound by compressed air emitted through a circumferential slot into a cylindrical bell chamber;

Bells which are sounded by means of a hammer actuated by hand, wave motion, by a descending weight, compressed gas, or electricity;

Guns and explosive signals which are produced by firing of explosive charges, the former being discharged from a gun, and the latter being exploded in midair;

Fog Detector Lights—certain light stations, in addition to the main light, are equipped with fog detector lights for automatic detection of fog. These lights sweep back and forth through an area over which the fog watch is necessary, showing a powerful bluish-white flash of about 1 second in duration. The interval between successive flashes will vary with the position of the vessel within the sector. At the limits of the sector the duration of the flash may be considerably longer than 1 second.

Fog detector lights operate continuously.

Standby fog signals are sounded at some of the light and fog signal stations when the main fog signal is inoperative. Some of these standby fog signals are of a different type and characteristic than the main fog signal.

Radiobeacons, RACONs, RAMARKs, and radio direction-finders are mentioned in the List of Lights, but for detailed information, including the synchronization of radio signals and sound signals for distance finding, the navigator should consult Pub. 117, Radio Navigational Aids.

Note—use Chart No. 1 for the complete list of symbols and abbreviations commonly used in presenting the essential characteristics of lights, fog signals, and radio aids found on charts.

VISIBILITY TABLE

Table of distances at which objects can be seen at sea according to their respective elevations and the elevation of the eye of the observer.

Height in Feet	Distance in geographic or nautical miles	Height in feet	Distance in geographic or nautical miles	Height in feet	Distance in geographic or nautical miles	Height in feet	Distance in geographic or nautical miles	Height in feet	Distance in geographic or nautical miles	Height in feet	Distance in geographic or nautical miles
1	1.2	23	5.6	45	7.8	135	13.6	340	21.6	600	28.7
2	1.7	24	5.7	46	7.9	140	13.8	350	21.9	620	29.1
3	2.0	25	5.9	47	8.0	145	14.1	360	22.2	640	29.5
4	2.3	26	6.0	48	8.1	150	14.3	370	22.5	660	30.1
5	2.6	27	6.1	49	8.2	160	14.8	380	22.8	680	30.5
6	2.9	28	6.2	50	8.3	170	15.3	390	23.1	700	31.0
7	3.1	29	6.3	55	8.7	180	15.7	400	23.4	720	31.4
8	3.3	30	6.4	60	9.1	190	16.1	410	23.7	740	31.8
9	3.5	31	6.5	65	9.4	200	16.5	420	24.0	760	32.3
10	3.7	32	6.6	70	9.8	210	17.0	430	24.3	780	32.7
11	3.9	33	6.7	75	10.1	220	17.4	440	24.5	800	33.1
12	4.1	34	6.8	80	10.5	230	17.7	450	24.8	820	33.5
13	4.2	35	6.9	85	10.8	240	18.1	460	25.1	840	33.9
14	4.4	36	7.0	90	11.1	250	18.5	470	25.4	860	34.3
15	4.5	37	7.1	95	11.4	260	18.9	480	25.6	880	34.7
16	4.7	38	7.2	100	11.7	270	19.2	490	25.9	900	35.1
17	4.8	39	7.3	105	12.0	280	19.6	500	26.2	920	35.5
18	5.0	40	7.4	110	12.3	290	19.9	520	26.7	940	35.9
19	5.1	41	7.5	115	12.5	300	20.3	540	27.2	960	36.3
20	5.2	42	7.6	120	12.8	310	20.6	560	27.7	980	36.6
21	5.4	43	7.7	125	13.1	320	20.9	580	28.2	1000	37.0
22	5.5	44	7.8	130	13.3	330	21.3				

Explanation.—The line of sight connecting the observer and a distant object is at maximum length tangent with the spherical surface of the sea. It is from this point of tangency that the tabular distances are calculated. The table must accordingly be entered twice to obtain the actual geographic visibility of the object—first with the height of the object, and second with the height of the observer's eye—and the two figures so obtained must be added. Thus, if it is desired to find the maximum distance at which a powerful light may be seen from the bridge of a vessel where the height of eye of the observer is 55 feet above the sea, from the table:

Nautical Miles

55 feet height of observer (visible) 8.7
200 feet height of light(visible) 16.5
Distance visible 25.2

CONVERSION TABLE — FEET TO WHOLE METERS

(FOR HEIGHTS OF LIGHTS)

1 foot = 0.3048 meter

Feet	Meters	Feet	Meters	Feet	Meters	Feet	Meters	Feet	Meters	Feet	Meters
		40	12	80	24	120	37	160	49	200	61
1	0	41	12	81	25	121	37	161	49	300	91
2	1	42	13	82	25	122	37	162	49	400	122
3	1	43	13	83	25	123	37	163	50	500	152
4	1	44	13	84	26	124	38	164	50	600	183
5	2	45	14	85	26	125	38	165	50	700	213
6	2	46	14	86	26	126	38	166	51	800	244
7	2	47	14	87	27	127	39	167	51	900	274
8	2	48	15	88	27	128	39	168	51	1000	305
9	3	49	15	89	27	129	39	169	52		
10	3	50	15	90	27	130	40	170	52		
11	3	51	16	91	28	131	40	171	52		
12	4	52	16	92	28	132	40	172	52		
13	4	53	16	93	28	133	41	173	53		
14	4	54	16	94	29	134	41	174	53		
15	5	55	17	95	29	135	41	175	53		
16	5	56	17	96	29	136	41	176	54		
17	5	57	17	97	30	137	42	177	54		
18	5	58	18	98	30	138	42	178	54		
19	6	59	18	99	30	139	42	179	55		
20	6	60	18	100	30	140	43	180	55		
21	6	61	19	101	31	141	43	181	55		
22	7	62	19	102	31	142	43	182	55		
23	7	63	19	103	31	143	44	183	56		
24	7	64	20	104	32	144	44	184	56		
25	8	65	20	105	32	145	44	185	56		
26	8	66	20	106	32	146	45	186	57		
27	8	67	20	107	33	147	45	187	57		
28	9	68	21	108	33	148	45	188	57		
29	9	69	21	109	33	149	45	189	58		
30	9	70	21	110	34	150	46	190	58		
31	9	71	22	111	34	151	46	191	58		
32	10	72	22	112	34	152	46	192	59		
33	10	73	22	113	34	153	47	193	59		
34	10	74	23	114	35	154	47	194	59		
35	11	75	23	115	35	155	47	195	59		
36	11	76	23	116	35	156	48	196	60		
37	11	77	23	117	36	157	48	197	60		
38	12	78	24	118	36	158	48	198	60		
39	12	79	24	119	36	159	48	199	61		

RADIOBEACONS

RADIO DIRECTION-FINDER SETS ON SHIPS

Radio direction-finder sets on board ship enable bearings to be taken of transmissions from other ships, aircraft, shore stations, marine radiobeacons, and the coastal stations of the radio communication network. When located in the pilothouse or on the navigating bridge, the direction-finder enables the navigating officer to obtain bearings himself without reference to others and without delay.

Due to the great value of radio bearings, particularly when visibility is poor and when celestial observations cannot be obtained, the radio direction-finder on board ship deserves the same consideration and care as are given to the sextant and compass. It has the following characteristics in common with the two latter navigational instruments: the readings are subject to certain errors; these errors may be reduced by skillful and intelligent operation; the dangers of using erroneous readings may be greatly reduced by the intelligence and good judgment of the mariner. In order to acquire experienced judgment in the operation of the instrument, it is essential that the mariner use it as much as practicable.

Troubles from interference and weak signals are greatly reduced by the use of direction-finders of proper selectivity. The bearings must be corrected for radio deviation as shown by the calibration curve of the set.

Types of Radiobeacons

1. Directional radiobeacons which transmit radio waves in beams along fixed bearings.
2. Rotating radiobeacons by which a beam of radio waves is resolved in azimuth in a manner similar to the beam of light sent out by rotating lights.
3. Circular radiobeacons which send out waves of approximately uniform strength in all directions so that ships may take radio bearings of them by means of the ship's radio direction-finder sets. This is the most common type of radiobeacon.

To extend the usefulness of marine radiobeacons to ships and aircraft employing automatic radio direction finders, U.S. marine radiobeacons on the Atlantic and Pacific Coasts and Great Lakes have been modified to transmit a continuous carrier signal during the entire radiobeacon operating period with keyed modulation providing the characteristic signal. Unless a beat frequency oscillator is installed, the continuous carrier signals are not audible to the operator of an aural null direction finder. A ten second dash has been included in the characteristic of these radiobeacons, to enable the navigator using a conventional aural null direction finder to refine his bearing. Vessels with direction finders will be able to use the United States radiobeacons located on the Atlantic and Pacific Coasts, and Great Lakes at any time in their assigned sequence.

Aeronautical Radio Aids

Aeronautical radiobeacons and radio ranges are often used by navigators of marine craft in the same manner as marine radiobeacons are used for determining lines of positions. They are particularly useful along coasts where marine broadcast coverage is inadequate. Aeronautical aids situated inland become less trustworthy, so far as ships are concerned, when high land intervenes between them and the coast. They are established to be of primary usefulness to aircraft, and surface craft should use these aids with caution. Only those aeronautical radiobeacons considered to be of use to the mariner have been selected for inclusion in this publication.

AERONAUTICAL RADIOBEACONS. Like marine radiobeacons, these aids broadcast a characteristic signal on a fixed frequency.

NOTE: The assigned frequency of aeronautical radiobeacons is normally from 200 to 415 kHz while the frequency of marine radiobeacons is normally from 285 to 325 kHz. Aeronautical radiobeacons not within the marine radiobeacon band will not normally be listed in this publication.

The range signals are interrupted at intervals to permit broadcast of the identification signal. In aviation publications the range leg bearings are most often given as magnetic bearings toward the station; in this publication they are given as true bearings toward the station. Unless otherwise stated in the station details, aeronautical radio aids mentioned in this publication transmit continuously.

NOTE: Mariners are advised that changes to and deficiencies in aeronautical radio facilities are not always immediately available to maritime interests and the positions are approximate and listed to the nearest minute only.

Obligations of Administrations Operating Radiobeacons

The obligations of nations and other administrations operating radiobeacons are given in Article 43 of the Radio Regulations of the International Telecommunication Union, Geneva.

Accuracy of Bearings Taken Aboard Ship

No exact rules can be given as to the accuracy to be expected in radio bearings taken by a ship as the accuracy depends to a large extent upon the skill of the ship's operator, the condition of the ship's equipment, and the accu-

racy of the ship's calibration curve. Mariners are urged to obtain this information by taking frequent radio bearings when their ship's position is accurately known and by recording the results. Normally, United States radiobeacons are operated in a group of six, each station in a group using the same frequency and transmitting for one minute in its proper sequence, and operate during all periods, either sequenced or continuously, regardless of weather conditions.

SKILL OF OPERATOR: Skill in the operation of the radio direction-finder can be obtained only by practice and by observing the technical instructions for the set in question. For these reasons the operator should carefully study the instructions issued with the set and should practice taking bearings frequently.

OPERATOR'S ERROR: As the operator obtains bearings by revolving the direction-finder coil until the signal disappears or becomes a minimum, the operator can tell by the size of the arc of silence or of minimum strength approximately how accurately the bearing has been taken. For instance, if the minimum is broad and the residual signal covers about 10° with equal strength, it is doubtful if the bearing can be accurately estimated. On the other hand, if a sharp minimum can be obtained, the operator can determine the bearing to within a half of a degree.

In this connection it should be noted that a properly operating and correctly adjusted direction-finder should in no case produce other than a point or arc of absolute silence. That is, there should be no "residual" signal at the point or arc of observation. The sharpness and completeness of the arc of silence are the best indications of a properly operating direction-finder, and their absence is the best indication of the presence of "night effect."

SUNRISE, SUNSET, OR NIGHT EFFECT: Bearings obtained from about half an hour before sunset to about half an hour after sunrise may be subject to errors due to night effect. On some nights this effect is more pronounced than on others and effect is usually greatest during the hours of twilight. Night effect may be detected by a broadening of the arc of minimum signals and by a fluctuation in the strength of the signals. It may also be indicated by difficulty in obtaining a minimum or by a rapidly shifting minimum. It is sometimes accompanied by an actual shift in the direction of the bearings. If it is essential to obtain a bearing when the night effect is pronounced, several bearings should be taken over a short period of time and an average taken of them.

RADIO DIRECTION FINDER WITHOUT GYRO REPEATERS: The ship's compass must be read as the bearing is taken or an error may be introduced equal to the amount that the ship has yawed in the interval between taking the bearing and reading the compass. Any error in the ship's compass must be applied to the bearing.

RECIPROCAL BEARINGS: In some direction-finder sets, the operator cannot tell from which side of the ship the signals are coming. With these sets the operator shall correct both bearings for their respective deviations and give both corrected bearings to the person who is plotting the bearings on the chart. If the mariner is in doubt as to the side of the ship from which the bearings are coming, this difficulty can usually be solved by having another bearing taken after the ship has steamed a short distance and noting in which direction the bearing is changing.

CALIBRATION: It is essential that the radio direction-finder be accurately calibrated in order that the bearings may be corrected for deviation. While the bearings are being taken, other radio antennas on board must be in the same condition as they were when the calibration was made; movable parts of the ship's superstructure such as booms, davits, wire rigging, etc., must be secured in the positions which they occupied when the direction-finder was calibrated. Unusual cargoes such as large quantities of metals and extraordinary conditions of loading may cause errors.

The direction-finder should be recalibrated after any changes have been made in the set or its surroundings (this includes alterations to or changes in position of antennas, wire rigging, boat davits, booms, etc.) whenever there is reason to believe that the previous calibration has become inaccurate, and also at periodic intervals.

The calibration must be made on approximately the same frequency or frequencies as will be used to take bearings because the deviation for several frequencies is not likely to be the same. It is believed that one calibration curve is satisfactory for the normal radiobeacon frequency (285 to 325 kHz), but the instructions issued by the manufacturer of the particular direction-finder in question should be studied in this connection.

To facilitate the calibration of ship's direction-finders, special arrangements have been made by some services for operation of their radiobeacons at times other than their published schedules. Information as to the arrangements made by the United States stations in this respect is as follows:

Sequenced radiobeacons cannot broadcast at any time other than on their assigned operating minute for the purpose of enabling vessels to calibrate their radio direction finders without causing interference. Special radio direction finder calibration transmitters of short range are operated at certain localities to provide continuous calibration service.

The position given for the antenna is the point from which the radiobeacon signal is emitted.

If it is not practicable to determine the time of calibration sufficiently in advance to contact the district commander, request may be made directly to the stations by means of telephone, telegraph, or a whistle signal consisting of three long blasts; followed by three short blasts.

This whistle signal is to be repeated until it is acknowledged by the station through the starting of the transmitter. The same group of signals should be sounded at the termination of calibration.

The work of the station personnel is not confined to standing watch and there may be times when the whistle request for calibration is not immediately heard, due to the noise from operating station machinery, etc. Usually, a repeated signal not too far from the station will attract attention.

"COMPENSATED" RADIO DIRECTION-FINDERS: Many radio direction-finders are "compensated" and no calibration chart or curve is used. Attention is invited to the fact that such compensation is just as vulnerable as the calibration data due to changes made in the set or its surroundings.

CHECK THE CALIBRATION: The calibration of compensation should be checked frequently by taking bearings when the ship's position is accurately known and the results should be recorded for future reference.

CALIBRATION RADIOBEACONS: In the United States and certain other areas special radiobeacons, primarily for calibrating shipboard direction-finders are in operation. These radiobeacons transmit either continuously during scheduled hours or upon request, as indicated in station details.

COASTAL REFRACTION (OR LAND EFFECT): Errors may occur in bearings taken by ships so located that the line of observation to the radiobeacon passes over land or along the shore line. However, many observations seem to indicate that such errors are negligible when the observing vessel is well out from the shore. Bearings secured entirely over water areas are to be preferred since "land effect" is thus eliminated. Bearings taken at sunset and sunrise are likely to be erratic, and observations taken at these hours should therefore be repeated and checked as may be feasible.

PROGRAM BROADCASTING STATIONS: Before taking bearings on a station broadcasting entertainment programs a mariner should consider that frequency may differ widely from the frequency for which the set is calibrated, that the published location of the station may be that of its studio and not that of its transmitting antenna, that if the station is synchronized with other stations it may be impossible to tell on which station the bearing was taken, and that as the majority of these stations are inland, the coastal refraction may be excessive.

Station Details

FREQUENCY: The frequency listed is that used by the station in transmitting its "Characteristic Signal." Calling frequencies, if any, will be given under "remarks."

RANGE: In this book the range of radiobeacons is only approximate and is given merely to assist mariners in planning their voyages and to inform them of several radiobeacons they will probably hear first. Frequently, when conditions for radio reception are good, radiobeacons may be heard at greater distances than indicated. The mariner who is at a greater distance than the range indicated should attempt to obtain bearings when necessary, and not assume that the radiobeacon will be unheard beyond its indicated range.

GROUP SEQUENCE: Selected radiobeacons are grouped together on the same operating frequency and are assigned a specific sequence of transmission within this group. This reduces station interference and unnecessary returning.

ANTENNA LEAD-IN: Included in the details of many radiobeacons located at or near light stations is a statement of the distance and bearing of the radiobeacon transmitting antenna from the light tower. Use should be made of this information when calibrating the ship's direction-finding equipment by means of simultaneous visual and radio bearings.

Plotting Radio Bearings

The procedure for converting radio (great circle) bearings as received by direction-finder equipment aboard ship is identical with that used in converting radio bearings supplied by direction-finder stations on shore and is described in section 100E "Plotting Radio Bearings" of Pub. 117, Radio Navigational Aids.

Synchronization for Distance Finding

At some radiobeacon stations, sound signals, either submarine or air or both, are synchronized with the radiobeacon signals for distance finding. Ordinarily, the sound signals do not operate during the transmission period of the radio signal in clear weather. The methods in use employ, as a rule, distinctive signals to indicate the point of synchronization, and make use, for determining distance, of the lag of signals traveling through air or water as compared to the practically instantaneous travel of the radio signals.

In the case of some sound signals, a series of short radio dashes is transmitted at intervals following the synchronizing point, so that by counting the number of such short dashes heard after the distinctive radio signal and before hearing the corresponding distinctive sound signal, the observer obtains the distance, in miles equal to the number of dashes counted, from the sound signal apparatus unless stated otherwise.

In the case of other signals, the observer notes the number of seconds intervening between the reception of the distinctive radio signal and the corresponding sound signal and uses a factor to determine distances in miles as follows:

Submarine signals–multiply the observed numbers of seconds by 0.8 or divide by 1.25 distance in nautical miles.

Air signals–multipy the observed number of seconds by 0.18 or divide by 5.5. For more approximate results or for statute miles, multiply the observed number of seconds by 0.2 or divide by 5.

Tables for finding distance

Interval in seconds	Distances in nautical miles from sound signal source	
	Air	Submarine
1	0.18	0.8
2	0.36	1.6
3	0.54	2.4
4	0.72	3.2
5	0.90	4.0
6	1.08	4.8
7	1.26	5.6
8	1.44	6.4
9	1.62	7.2
10	1.80	8.0
20	3.60	16.0
30	5.40	24.0
40	7.20	
50	9.00	
60	10.80	

REMARKS: Average speed of sound travel in water is 1 nautical mile in 11/4 seconds.

The speed of sound travel is influenced by a number of conditions making it impracticable to state a factor that will give exact results under all conditions. The results obtained by the methods described may be accepted as being accurate to within 10 percent of the distance.

Methods of synchronizing the signals vary and are described or illustrated in official announcements regarding them. It is essential to note carefully the point of synchronization used so that no error will be made through taking time on the wrong signal or the wrong part of it.

In observing air signals it is usually sufficient to use a watch with second hand, although a stop watch is helpful. For submarine signals where the interval is shorter and a time error correspondingly more important, it is essential that a stop watch or other timing device be used. Where the radiobeacon and submarine signals are not received at the same point on the vessel, means of instant communication between two observers should be available or synchronized stop watches provided for each.

Ships not equipped with a DF receiver can take advantage of the distance-finding feature of a radiobeacon station, if equipped with a radio receiver capable of receiving the transmission. In the case of obtaining distance from a radiobeacon station which is synchronized with a submarine sound signal, the ship must also be equipped with a device for picking up submarine sound signals.

Rotating Loop Radiobeacon

MODE OF OPERATION:

(1) The radiobeacon consists of a rotating loop transmitter having directional properties by which an observer in a ship can obtain his bearing from the beacon without the use of a direction-finder. Any ordinary receiving set capable of being tuned to the radiobeacon's frequency may be used. The only other equipment required is a reliable stop watch or chronograph with a sweep second hand. Stop watches and clocks with dials graduated in degrees may be used, from which bearings may be read directly without any mathematical calculation.

(2) During each revolution of the beacon, the signals received by the observer will rise and fall in intensity, passing through a maximum and a minimum twice each minute. The positions of minimum intensity, which occur at intervals of thirty seconds from one another, are very sharp and can be accurately observed. These are, therefore, used for navigation purposes.

The beacon may be regarded as having a line or beam of minimum intensity which rotates at a uniform speed of 360° in 1 minute (i.e. 6° in 1 second) based on the true meridian as starting point. Therefore, if the observer can (a) identify the beacon and (b) measure the number of seconds which this minimum beam takes to reach their position starting from the true meridian, this number multiplied by six will give their true bearing from the beacon or its reciprocal.

The signals which enable the beacon to be identified and the bearing to be calculated are described in the following paragraphs:

Signals transmitted by the beacon: Each transmission from the beacon lasts for 4 minutes; the beacon is then silent for 8 minutes, and automatically starts again at the end of the silent period. Each transmission consists of two parts: (a) the identification signal of the station set at a slow speed for the first minute, commencing when the minimum beam is true east and west and followed by a long dash of about 12 seconds duration; (b) the signal group commencing when the minimum beam is approaching the true meridian, and consisting of (i) the north starting signal, which is the letter V followed by two dots (••• – ••); (ii) a long dash of about 12 seconds duration; (iii) the east starting signal, which is the letter B followed by two dots (– ••• ••); and (iv) a long dash for about 42 seconds.

The navigation signals are repeated during the remainder of the transmission and signals cease when the minimum beam is in the east and west position.

INSTRUCTIONS FOR TAKING BEARINGS

(i) Set stop watch to zero.
(ii) Listen for identification signal.
(iii) When the first long dash begins (at A on diagram) get ready for the "north signal."
(iv) After the "north signal," start stop watch exactly at beginning of long dash (see "00 seconds" on diagram) counting one-two with the two preceding dots, and 3 for the start of the stop watch.
(v) Listen for minimum and note its exact time by stop watch.

NOTE: If stop watch is graduated in degrees note exact angle, which is the bearing.

(vi) Multiply number of seconds by 6° for bearing.
(vii) Determine whether bearing is direct or reciprocal.
(viii) If the "north signal" is faint, use the "east signal," but add 090° to final bearing.

Particular attention is directed to the following:

(a) The stop watch must be started exactly at the beginning of the long dash for each series of observations.

(b) The time of occurrence of the minimum must be read to the nearest fifth of a second.

(c) The bearing obtained will be either the direct bearing or its reciprocal.

(d) When using the east signal, add 090° to obtain bearings from true north.

(e) The beacon is set up on the true meridian, and no correction is required for magnetic variation.

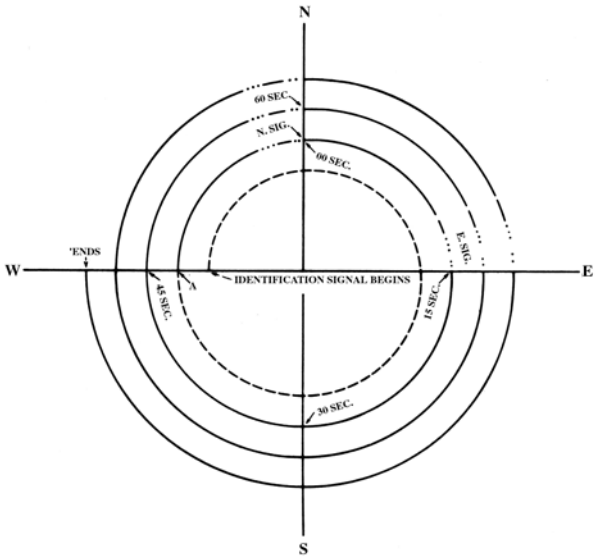
(f) No quadrantal error arises, and no corrections are necessary except as in (c) and (d) above.

(A correction must, of course, be made for convergency; this should be applied as if the beacon were a shore radio direction-finder station.)

(g) A comparatively large error of bearing may occur due to inaccuracy in the stop watch, and to obviate this, observers or navigators should check their stop watches on the beacon station before taking bearings. This can easily be done by checking the time by stop watch of the complete revolution of the beacon transmission. Any error found can then be allowed for.

Caution

Due to the many factors which enter into the transmission and reception of radio signals, a mariner cannot practically estimate its distance from a radiobeacon either by the strength of the signals received or by the time at which the signals were first heard. Mariners should give this fact careful consideration in approaching radiobeacons. A diagram showing the signals used is given below.



ROTATING RADIOBEACON
SIGNAL DIAGRAM

DESCRIPTION

(Radiobeacons)

Information is tabulated in eight columns as follows:

column 1: The number assigned to each radiobeacon by this Agency.

column 2: Name and/or descriptive location of the radiobeacon.

column 3: Approximate latitude and longitude of the radiobeacon to the nearest tenth of a minute.

column 4: Radiobeacon characteristics. Included in this column are the Morse code, period in seconds, length of transmission and silence time.

column 5: Range (approximate) in nautical miles.

column 6: Group sequence. Selected radiobeacons are grouped together on the same operating frequency and are assigned a specific sequence of transmission within this group. This reduces station interference and unnecessary return.

column 7: Frequency (given in kilohertz) and amplitude modulation (see Table Symbols).

column 8: Remarks. Transmission synchronization, type of radiobeacon (marine, aero, etc.), calibration, antenna lead-in, calling frequencies, distance-finding information, service charges, hours of transmission, directional signals and other pertinent information.

ABBREVIATIONS

aero . . . . . aeronautical
tr . . . . . transmission
si . . . . . silence
s. . . . . seconds
(4) . . . . . 4 times
Transmission is continuous unless otherwise stated.

TABLE OF SYMBOLS

LEGEND

(1) Type of modulation of the main carrier.
(2) Nature of signal(s) modulating the main carrier.
(3) Type of "information" to be transmitted. "Information" does not include information of a constant, unvarying nature such as provided by standard frequency emissions, continuous wave and pulse radars, etc.

AMPLITUDE MODULATION:

N0N

(1) Emission of an unmodulated carrier.
(2) No modulating signal.
(3) No information transmitted.

A1A

(1) Double-sideband.
(2) Single channel containing quantized or digital information without the use of a modulating subcarrier.
(3) Telegraphy (for aural reception).

A2A

(1) Double-sideband.
(2) Single channel containing quantized or digital information with the use of a modulating subcarrier.
(3) Telegraphy (for aural reception).

A3E

(1) Double-sideband.
(2) Single channel containing analog information.
(3) Telephony (including sound broadcasting).

R3E

(1) Single-sideband (reduced or variable level carrier).
(2) Single channel containing analog information.
(3) Telephony (including sound broadcasting).

B8E

(1) Independent sidebands.
(2) Two or more channels containing analog information.
(3) Telephony (including sound broadcasting).

H2A

(1) Single-sideband (full carrier).
(2) Single channel containing quantized or digital information with the use of a modulating subcarrier.
(3) Telegraphy (for aural reception).

H3E

(1) Single-sideband (full carrier).
(2) Single channel containing analog information.
(3) Telephony (including sound broadcasting).

J3E

(1) Single-sideband (suppressed carrier).
(2) Single channel containing analog information.
(3) Telephony (including sound broadcasting).

A3C

(1) Double-sideband.
(2) Single channel containing analog information.
(3) Facsimile.

A3F

(1) Double-sideband.
(2) Single channel containing analog information.
(3) Television (video).

B7D

(1) Independent sidebands.
(2) Two or more channels containing quantized or digital information.
(3) Data transmissions, telemetry, telecommand.
Note: With 6 kHz. EDW operation in the bands below 30 MHz allocated exclusively for Maritime Mobile Service (FC, MO).

FREQUENCY (OR PHASE) MODULATION:

F1B

(1) Frequency modulation.
(2) Single channel containing quantized or digital information without the use of a modulating subcarrier.
(3) Telegraphy (for automatic reception).

F2A

(1) Frequency modulation.
(2) Single channel containing quantized or digital information with the use of a modulating subcarrier.
(3) Telegraphy (for aural reception).

F3E

(1) Frequency modulation.
(2) Single channel containing analog information.
(3) Telephony (including sound broadcasting).

F3C

(1) Frequency modulation.
(2) Single channel containing analog information.
(3) Facsimile.

F3F

(1) Frequency modulation.
(2) Single channel containing analog information.
(3) Television (video).

P1B

(1) Sequence of unmodulated pulses.
(2) Single channel containing quantized or digital information without the use of a modulating subcarrier.
(3) Telegraphy (for automatic reception).

Pulse Modulation:
GHz = gigahertz
kHz = kilohertz
MHz = megahertz

DIFFERENTIAL GLOBAL POSITIONING SYSTEM (DGPS)

Differential Global Positioning System (DGPS) is a radio-based navigation system that eliminates errors in a GPS receiver that will allow the accuracy level to be significantly enhanced. DGPS accuracy can be 10 meters or better, compared with 100 meters or better with GPS. This is possible by placing a high-performance GPS receiver (reference station) at a known location. Because the receiver knows its exact location, it can determine the errors in the satellite signals. The satellite measures the ranges to each satellite using the signals received and comparing these measured ranges to the actual ranges calculated from its known position. The total error is the difference between the measured and calculated range. The error data for each tracked satellite is formatted into a correction message and transmitted to GPS users. The correction message format follows the standard established by the Radio Technical Commission for Maritime Services, Special Committee 104 (RTCM-SC104). These differential corrections are then applied to the GPS calculations, thus removing most of the satellite signal error and improving accuracy.

Terms for understanding DGPS:

DGPS Correction Receiver

A DGPS correction receiver decodes the signals received from a reference site. Data is formatted into a serial RTCM SC104 data stream and provided to the remote GPS receiver. There are many types of DGPS correction receivers.

GPS Receivers

The GPS receiver measures ranges to each satellite, but before the measurements are used to calculate position, corrections received from the DGPS receiver are applied to the measurements. The position is then calculated using the corrected range measurements providing vastly increased accuracy.

Modulator

Depending on the transmission format, the modulator encodes the data as necessary for transmission.

Reference Station

The refrence station GPS receiver knows exactly the position of its antenna, therefore it knows what each satellite range measurement should be. It measures the ranges to each satellite using the received signals just as if it was going to calculate position. The measured ranges are subtracted from the known ranges and the result is range error. The range error values for each satellite are formatted into messages in the RTCM SC104 format and transmitted continuously.

Transmitter

The transmitter is basically a power amplifier which is connected to an antenna system. The modulated carrier is amplified and driven to the antenna. In the United States Coast Guard system, the transmitter is 250-1000 Watts and operates in the 300Khz frequency range. The amplified signal is radiated via the antenna to remote DGPS receivers for real-time position correction.

DESCRIPTION

(Differential GPS Stations)

Information is tabulated in eight columns as follows:

column 1: The number assigned to each DGPS Station by this Agency.

column 2: Name of the DGPS Station

column 3: Approximate latitude and longitude of the DGPS Transmitting Station to the nearest tenth of a minute.

column 4: Station ID which can be found in the IALA Master list. No two stations have the same ID. **T** dentoes the Transmitting Station, **R** denotes the Reference Station.

column 5: Range (approximate) in nautical miles.

column 6: Frequency in kHz.

column 7: Transfer Rate which equates to the baud rate and will be published as a whole number without any additional abbreviations such as “bps” (bits per second)

column 8: Remarks. This column contains information about the reference stations and messages types transmitted. GPS Message Type Numbers are 1, 3, 4, 5, 6, 7, 9, 15 and 16. *(Refer to message type descriptions below)*

GPS MESSAGE TYPE NUMBER INDICATORS

1	Differential GNSS corrections (full set of satellites)
3	Reference stations parameters
4	Datum used
5	Constellation health
6	Null frame (no information)
7	Radiobeacons Almanacs
9	Sub-set differential GNSS corrections
15	Ionospheric corrections
16	Special messages

Section 1

Sakhalin, Hokkaido and Kuril Islands

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			SAKHALIN				
2 *M 7806*	Mys Anastasii.	46° 01.7′ N 142° 10.7′ E	**L.Fl.W.** period 6s fl. 2s, ec. 4s	161 **49**	8	White octagonal stone tower, red band; 36.	
4 *M 7804*	Ostrov Kamen 'Opasnosti (Nijo Gan).	45° 47.5′ N 142° 13.5′ E	**Fl.W.** period 7.5s fl. 1.5s, ec. 6s	62 **19**	13	White round concrete tower; 59.	Unreliable Jan. to Mar.
8 *M 7802*	**Mys Kril'on (Nishi Notoro Misaki).**	45° 53.8′ N 142° 04.8′ E	**Al.W.R.** period 10s	156 **48**	**19**	Red octagonal stone tower; 48.	Visible 208°-134°. Reserve light Iso.W. 10s 18M. **Horn:** Mo.(A) ev. 20s (bl. 2s, si. 4s, bl. 4s, si. 10s).
12 *M 7800*	**Mys Kuznetsova.**	46° 02.7′ N 141° 55.6′ E	**Fl.W.** period 8s fl. 0.5s, ec. 7.5s	259 **79**	**18**	White square concrete tower, black band; 26.	Visible 330°-172°. Reserve light range 9M.
16 *M 7794*	**Ostrov Moneron.**	46° 14.9′ N 141° 15.6′ E	**Fl.(2)W.** period 15s fl. 0.2s, ec. 3.3s fl. 0.2s, ec. 11.3s	374 **114**	**26**	Black octagonal concrete tower, white band; 34.	Visible 161°-049°. Reserve light Iso.W. 3s 20M.
20 *M 7796*	**Pereput'e.**	46° 17.3′ N 141° 53.6′ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	125 **38**	**15**	Black round metal tower, white top, platform; 16.	**Radar reflector.**
36 *M 7788*	**Mys Lopatino (Kenushi Misaki).**	46° 36.0′ N 141° 48.7′ E	**Fl.(2)W.** period 10s	220 **67**	**21**	White octagonal concrete tower, black bands; 56.	Visible 002°-210°. Reserve light range 10M.
	NEVEL'SK:						
44 *M 7778*	-Outer Range, front.	46° 40.0′ N 141° 52.0′ E	**F.G.**	135 **41**	1	White mast, white triangular daymark point up, black stripe; 33.	Visible on range line only.
48 *M 7778.1*	--Rear, about 38 meters 078°54′ from front.	46° 40.0′ N 141° 51.9′ E	**F.G.**	148 **45**	1	White wooden mast, white triangular daymark point up, black stripe; 26.	Visible on range line only.
	PORT KHOLMSK:						
56 *M 7746*	**-Kholmsk.**	47° 01.9′ N 142° 02.0′ E	**Fl.(3)W.** period 14.1s fl. 0.5s, ec. 1.8s fl. 0.5s, ec. 1.8s fl. 0.5s, ec. 9s	220 **67**	**20**	White round concrete tower, black bands; 93.	Visible 006°-186°. Reserve light Iso.W. 8s 12M.
60 *M 7752*	-Entrance Range, front.	47° 02.8′ N 142° 03.0′ E	**F.R.**	207 **63**	12	Building, octagonal lantern; 16.	Visible 077°42′-197°42′. Shown 24 hours. Reserve light F.R. 7M.
64 *M 7752.1*	--Rear, 185 meters 137°42′ from front	47° 02.7′ N 142° 03.1′ E	**F.R.**	295 **90**	12	White octagonal stone tower, black stripe; 33.	Visible 077°42′-197°42′. Shown 24 hours. Reserve light F.R. 7M.
68 *M 7753*	-Kholmsk Range, front.	47° 03.6′ N 142° 03.2′ E	**Iso.G.** period 4s	98 **30**	3	Metal framework mast, white trapezoidal daymark, black stripe; 15.	Visible 106°36′-109°36′.
72 *M 7753.1*	--Rear, 154 meters 108°06′ from front.	47° 03.6′ N 142° 03.3′ E	**F.G.**	130 **40**	3	Metal framework tower, white trapezoidal daymark, black stripe; 26.	Visible 098°06′-118°06′.
76 *M 7748*	-N. breakwater, head.	47° 03.2′ N 142° 02.5′ E	**Fl.R.** period 3s fl. 0.5s, ec. 2.5s	49 **15**	2	Red round concrete tower; 39.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			SAKHALIN				
80 *M 7750*	-S. breakwater, head.	47° 03.1′ N 142° 02.5′ E	**Fl.G.** period 3s fl. 0.5s, ec. 2.5s	39 **12**	1	Green metal framework tower; 30.	
84 *M 7754*	-Port Ukhadnyye, N. breakwater, head.	47° 03.7′ N 142° 02.8′ E	**Fl.G.** period 3s fl. 0.5s, ec. 2.5s	36 **11**	1	Green round metal tower, platform; 26.	
92 *M 7754.3*	--Detached breakwater, S. end.	47° 03.7′ N 142° 02.8′ E	**Fl.R.** period 3s fl. 0.5s, ec. 2.5s	36 **11**	2	Red round metal tower, platform; 26.	
96 *M 7754.5*	--Basin Entrance, E. side.	47° 03.6′ N 142° 02.8′ E	**Oc.W.R.** period 6s lt. 4s, ec. 2s	23 **7**	W. 5 R. 2	Red round metal column; 13.	W. 279°-219°, R.-279°.
100 *M 7738*	**Mys Slepikovskogo (Konotoro Misaki).**	47° 18.1′ N 141° 58.0′ E	**Fl.W.** period 12s fl. 3s, ec. 9s	98 **30**	**16**	Red round concrete tower; 92.	Visible 343°-177°. F.W. fishing light shown at Sadovniki. Reserve light L.Fl.W. 12s 10M.
104 *M 7716*	**Mys Lamanon (Chirai Misaki).**	48° 46.8′ N 141° 50.3′ E	**Fl.W.** period 20s fl. 1s, ec. 19s	233 **71**	**22**	White round concrete tower, black bands; 85.	Visible 353°-215°. Reserve light Fl.W. 10s 10M.
	UGLEGORSK (ESUTORU):						
108 *M 7713*	-Range, front.	49° 04.2′ N 142° 02.0′ E	**Iso.R.** period 6s	157 **48**	**16**	White octagonal stone tower, black stripe, neon rectangular daymark; 37.	Visible 099°06′-219°06′. Reserve light range 6M, visible 156°06′-162°06′.
112 *M 7713.1*	--Rear, 300 meters 159°06′ from front.	49° 04.1′ N 142° 02.1′ E	**F.R.**	223 **68**	**16**	White octagonal stone structure, black median stripe, neon rectangular daymark; 56.	Visible 099°06′-219°06′. Reserve light range 6M, visible 156°06′-162°06′.
124 *M 7714*	-W. breakwater, head.	49° 04.6′ N 142° 01.8′ E	**Fl.(2)R.** period 5s fl. 1s, ec. 1s fl. 1s, ec. 2s	33 **10**	2	Red metal post, white band; 26.	
128 *M 7714.2*	-E. mole, head.	49° 04.6′ N 142° 01.9′ E	**Fl.(2)G.** period 5s fl. 1s, ec. 1s fl. 1s, ec. 2s	26 **8**	1	Green four-sided metal framework pyramid, white band; 26.	
132 *M 7711.5*	**-Uglegorsk.**	49° 05.0′ N 142° 02.3′ E	**Iso.W.** period 6s	161 **49**	**18**	White octagonal stone tower, white dwelling; 46.	Visible 026°-179°.
136 *M 7712*	-Jetty, head.	49° 05.9′ N 142° 01.9′ E	**Fl.(2)G.** period 5s fl. 1s, ec. 1s fl. 1s, ec. 2s	16 **5**	1	Green four-sided metal framework pyramid, white band; 10.	Shown Mar. 20 to Jan. 15.
140 *M 7711*	Mys Gavrilova.	49° 09.1′ N 142° 02.5′ E	**Oc.R.** period 6s lt. 4.5s, ec. 1.5s	236 **72**	11	White octagonal stone tower, red band; 33.	Visible 052°-205°. Reserve light range 4M.
148 *M 7709.4*	Shakhtersk, Range, front.	49° 09.7′ N 142° 03.5′ E	**Iso.R.** period 3s	49 **15**	12	White octagonal stone tower, black stripe; 33.	Visible 109°54′-129°54′. Reserve light range 6M.
152 *M 7709.41*	--Rear, about 260 meters 119°54′ from front.	49° 09.6′ N 142° 03.7′ E	**Iso.R.** period 3s	85 **26**	12	Metal framework tower, white rectangular daymark, black stripe; 53.	Visible 109°54′-129°54′. Synchronized with front. Reserve light F.R. 6M.
156 *M 7709*	-S. mole, head.	49° 09.7′ N 142° 03.1′ E	**Fl.G.** period 3s fl. 0.5s, ec. 2.5s	33 **10**	1	Green concrete truncated pyramidal tower; 26.	
157 *M 7709.2*	-N. mole, head.	49° 09.7′ N 142° 03.1′ E	**Fl.R.** period 3s fl. 0.5s, ec. 2.5s	43 **13**	2	Red round metal tower, platform, 26.	
160 *M 7708*	Mys Nizmenny.	49° 11.5′ N 142° 04.0′ E	**Iso.W.** period 3s	72 **22**	11	White octagonal stone tower; 26.	Visible 000°-213°. Shown Mar. 20 to Jan. 15. Reserve light range 7M.
161 *M 7707*	**Boshnyakovo.**	49° 38.4′ N 142° 09.4′ E	**L.Fl.R.** period 6s	322 **98**	14	White octagonal concrete tower, red bands; 56.	Visible 014°-180°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			SAKHALIN				
162 *M 7706*	**Mys Korsakova.**	50° 01.3′ N 142° 08.6′ E	**Fl.W.** period 6s fl. 1s, ec. 5s	335 **102**	**16**	Four-sided metal framework tower, white rectangular daymark; 56.	Visible 335°-213°.
162.3 *M 7810*	Kirillovo.	46° 27.1′ N 142° 19.9′ E	**L.Fl.W.** period 5s fl. 2s, ec. 3s	157 **48**	9	White octagonal stone tower; 23.	
	PORT KORSAKOV:						
162.4 *M 7828*	-Approach.	46° 39.0′ N 142° 45.4′ E	**L.Fl.W.** period 6s fl. 2s, ec. 4s	177 **54**	9	White octagonal stone tower; 13.	
162.5 *M 7831*	-Inner Road, S. breakwater, head.	46° 37.2′ N 142° 45.4′ E	**Iso.G.** period 6s	33 **10**	7	White four-sided concrete tower; 20.	Reserve light range 2M.
162.7 *M 7832*	-On hill above harbor.	46° 37.8′ N 142° 46.1′ E	**F.G.**	243 **74**	5	Round metal tower; 23.	Reserve light range 3M.
164 *M 7830*	**Mys Tomari-Aniva.**	46° 36.5′ N 142° 47.5′ E	**Fl.(2)W.** period 10s fl. 0.2s, ec. 2.2s fl. 0.3s, ec. 7.3s	367 **112**	**25**	Black octagonal concrete tower, white band; 49.	Reserve light Fl.W. 6s 12M.
165 *M 7840*	**Novikovo.**	46° 21.2′ N 143° 22.5′ E	**L.Fl.W.** period 5s fl. 2s, ec. 3s	226 **69**	**17**	White octagonal stone tower; 23.	Visible 355°-122°. Shown Apr. 1 to Dec. 15.
166 *M 7841.5*	Mramornyy.	46° 17.8′ N 143° 23.2′ E	**Fl.R.** period 5s fl. 1s, ec. 4s	56 **17**	4	Orange round metal tower, platform; 16.	Shown Apr. 25 to Dec. 1. **Radar reflector.**
168 *M 7842*	**Mys Aniva.**	46° 01.3′ N 143° 24.6′ E	**Fl.(2)W.** period 24s fl. 1s, ec. 5s fl. 1s, ec. 17s	131 **40**	**17**	Black round concrete tower, white bands; 102.	Visible 206°-166°. Shown Apr. 15 to Jan. 15. Reserve light Fl.W. 3s 9M.
	RACON		**AW(• – • – –)** period 30s		**20**		Azimuth coverage 030°-340°.
170 *M 7846*	Mys Levonorna.	46° 22.4′ N 143° 36.8′ E	**Fl.W.** period 6s fl. 1.5s, ec. 4.5s	197 **60**	9	White round metal tower; 26.	Visible 180°-023°. Shown Apr. 15 to Jan. 15. **Radar reflector.**
172 *M 7848*	**Mys Svbodnyy.**	46° 50.8′ N 143° 25.8′ E	**Fl.W.** period 10s fl. 0.5s, ec. 9.5s	141 **43**	**18**	White round concrete tower, black bands; 74.	Visible 043°-293°. Shown Apr. 15 to Jan. 15. Reserve light range 8M. **Radiobeacon** 9 miles W.
172.5 *M 7847*	Zaliv Mordvinova.	46° 49.4′ N 143° 13.1′ E	**Iso.W.** period 6s	49 **15**	12	Tower, white two-story building; 30.	Shown Apr. 15 to Jan. 15.
174 *M 7870*	**Mys Goryanskiy.**	48° 57.3′ N 142° 58.7′ E	**Fl.W.** period 3s fl. 1s, ec. 2s	397 **121**	**22**	White octagonal concrete tower, square base; 56.	Visible 188°-341°.
180 *M 7875*	**Poronaysk.**	49° 13.5′ N 143° 07.1′ E	**Fl.(2)W.** period 15s fl. 0.3s, ec. 3.6s fl. 0.3s, ec. 10.8s	108 **33**	**16**	Black octagonal concrete tower, white bands; 105.	Reserve light Fl.W. 3s 12M.
184 *M 7876*	Poronaysk (Shikuka) Anchorage Range, front.	49° 13.6′ N 143° 07.1′ E	**F.R.**	41 **12**	11	Gantry, neon rectangular daymark; 41.	Visible 247°54′-007°54′. Shown 24 hours.
188 *M 7876.1*	-Rear, about 201 meters 307°42′ from front.	49° 13.7′ N 143° 06.9′ E	**F.R.**	69 **21**	12	Framework tower, neon rectangular daymark; 69.	Visible 247°54′-007°54′. Shown 24 hours.
192 *M 7885*	**Mys Bellinsgauzena.**	49° 29.9′ N 144° 14.7′ E	**Fl.W.** period 6s fl. 1s, ec. 5s	138 **42**	**15**	Framework tower, white rectangular daymark; 41.	
193 *M 7885.1*	Mys Nizkig.	50° 01.0′ N 143° 59.8′ E	**Fl.W.** period 8s fl. 1s, ec. 7s	72 **22**	14	White octagonal concrete tower, red base; 56.	Visible 156°-341°. Reserve light range 9M.
194 *M 7890*	Mys Ratmanova.	50° 40.5′ N 143° 41.8′ E	**Fl.W.** period 3s fl. 1s, ec. 2s	131 **40**	9	Metal framework tower, red rectangular daymark, white band; 39.	Visible 174°-347°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			SAKHALIN				
195 *M 7902.5*	**Pil'tun.**	52° 51.0′ N 143° 18.5′ E	**Oc.W.** period 7.5s	121 **37**	**17**	White round metal tower, black bands; 112.	Shown Jun. 1 to Jan. 1. Reserve light range 8M.
195.5 *M 7920*	**Zaliv Chayvo.**	52° 21.7′ N 143° 11.7′ E	**Fl.W.** period 6s fl. 1s, ec. 5s	92 **28**	**15**	White octagonal concrete tower; 79.	Shown Jun. 1 to Jan. 1. Reserve light range 7M.
196 *M 7884*	**Mys Terpeniya (KitaShiretoko Misaki).**	48° 38.7′ N 144° 44.7′ E	**L.Fl.W.** period 7.5s fl. 3s, ec. 4.5s	233 **71**	**22**	Black round concrete tower, white base, black bands; 135.	Shown Apr. 15 to Dec. 15. Reserve light range 12M.
			JAPAN-HOKKAIDO-NORTH COAST				
200 *M 6895.4*	Hamaonisibetsu.	45° 20.8′ N 142° 09.1′ E	**Fl.W.** period 5s	85 **26**	12	Red concrete tower, white bands; 49.	Visible 124°-324°. F.W. obstruction light illuminates Todo Shima 1800 meters NE.
202 *M 6895.2*	Tonbetu Ko, breakwater.	45° 08.1′ N 142° 23.7′ E	**Fl.R.** period 3s	46 **14**	5	Red tower; 36.	
204 *M 6895*	**Kamui Misaki.**	45° 03.5′ N 142° 30.1′ E	**Fl.W.** period 15s	161 **49**	**19**	White round concrete tower, black bands; 59.	Visible 135°-320°.
208 *M 6894.6*	-SE.	45° 02.3′ N 142° 30.9′ E	**Iso.R.** period 4s	46 **14**	4	Red round concrete tower; 36.	
212 *M 6894.5*	Toimaki Ko.	44° 59.6′ N 142° 32.6′ E	**Fl.R.** period 3s	26 **8**	3	Red tower; 16.	
216 *M 6894.4*	Esasi, detached breakwater.	44° 55.8′ N 142° 36.0′ E	**Fl.(2)R.** period 6s 2 fl. 2s, ec. 4s	43 **13**	5	Red round concrete tower; 32.	
224 *M 6893.7*	Yamausu Ko, E. breakwater.	44° 49.9′ N 142° 40.8′ E	**F.Fl.G.** period 6s	39 **12**	F. 1 Fl. 3	White round concrete tower; 36.	
226 *M 6893.65*	Occhube Ko.	44° 46.9′ N 142° 43.3′ E	**Fl.R.** period 3s	36 **11**	3	Red round concrete tower; 27.	
228 *M 6893.6*	**Otoineppu Misaki.**	44° 37.4′ N 142° 55.9′ E	**Iso.W.** period 4s	95 **29**	**15**	White tower, red bands; 49.	
232 *M 6893.5*	Motoineppu Ko, N. breakwater, head.	44° 36.4′ N 142° 57.0′ E	**Fl.R.** period 3s	49 **15**	5	Red round concrete tower; 36.	
	OMU KO:						
236 *M 6892*	-N. breakwater, head.	44° 35.2′ N 142° 57.9′ E	**Fl.(2)R.** period 6s	39 **12**	5	Red tower; 36.	
244 *M 6890*	Sawaki Ko, E. detached breakwater.	44° 31.4′ N 143° 03.8′ E	**Iso.G.** period 4s	39 **12**	4	White round concrete tower; 32.	
248 *M 6889*	Saru Ko, E. breakwater.	44° 25.7′ N 143° 13.9′ E	**F.Fl.R.** period 3s	43 **13**	F. 1 Fl. 3	Red tower; 32.	
252 *M 6885*	**Monbetsu.**	44° 21.4′ N 143° 20.9′ E	**Fl.W.** period 10s	263 **80**	**23**	White concrete tower, red bands; 43.	Visible 099°-318°.
256 *M 6886*	-N. breakwater, head.	44° 21.0′ N 143° 22.1′ E	**Oc.R.** period 6s lt. 5s, ec. 1s	62 **19**	5	Red round concrete tower; 52.	
260 *M 6886.4*	-Detached breakwater, N. head.	44° 21.0′ N 143° 22.0′ E	**Fl.G.** period 3s	39 **12**	5	White tower; 36.	
262 *M 6886.2*	-Breakwater.	44° 20.6′ N 143° 23.2′ E	**Fl.R.** period 3s	43 **13**	4	Red tower; 33.	
264 *M 6887*	-Inner harbor breakwater.	44° 21.1′ N 143° 21.6′ E	**F.Fl.G.** period 5s	33 **10**	F. 1 Fl. 3	White round concrete tower; 27.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			JAPAN-HOKKAIDO-NORTH COAST				
268 *M 6884.4*	Saroma Ko, mouth.	44° 11.0′ N 143° 47.0′ E	**F.Fl.R.** period 5s	46 **14**	F. 4 Fl. 7	White round concrete tower, red bands; 43.	
270 *M 6884.6*	-Toetoko Ko.	44° 11.0′ N 143° 44.7′ E	**Fl.G.** period 3s	22 **7**	3	White tower; 18.	
271 *M 6884.3*	Hamasaroma Ko.	44° 05.6′ N 143° 55.7′ E	**Fl.R.** period 3s	20 **6**	4	Red tower; 18.	
272 *M 6884*	Tokoro Ko, N. breakwater.	44° 07.6′ N 144° 06.3′ E	**Fl.R.** period 3s	49 **15**	4	Red tower; 31.	
280 *M 6882*	**Notoro Misaki.**	44° 06.2′ N 144° 14.8′ E	**Fl.W.** period 8s	188 **57**	**20**	White square structure, black bands; 69.	Visible 097°-335°. Shown Mar. 14 to Jan. 15.
288 *M 6877*	-N. breakwater.	44° 01.5′ N 144° 17.4′ E	**Fl.(2)R.** period 6s	49 **15**	10	Red tower; 43.	
292 *M 6878*	-E. breakwater.	44° 01.4′ N 144° 17.3′ E	**Iso.G.** period 4s	46 **14**	5	White tower; 43.	
293 *M 6878.5*	-Outer breakwater.	44° 01.0′ N 144° 18.1′ E	**Fl.R.** period 3s	52 **16**	5	Red tower; 43.	
294 *M 6876*	Masuura Ko.	43° 59.5′ N 144° 18.1′ E	**Fl.R.** period 3s	46 **14**	5	Red tower; 36.	
296 *M 6866*	**Utoro.**	44° 05.5′ N 145° 00.5′ E	**Fl.W.** period 15s	466 **142**	**21**	White tower, black bands; 66.	
300 *M 6872*	-E. breakwater.	44° 04.4′ N 144° 59.6′ E	**Fl.G.** period 3s	39 **12**	7	White round concrete tower; 36.	Shown Mar. 31 to Jan. 1.
304 *M 6870*	-N. breakwater.	44° 04.6′ N 144° 59.6′ E	**F.Fl.R.** period 6s	49 **15**	F. 4 Fl. 7	Red round concrete tower; 32.	
308 *M 6862*	Siretoko Misaki.	44° 20.1′ N 145° 20.6′ E	**Fl.(2)W.** period 20s	335 **102**	12	White tower, black bands; 39.	Visible 106°-344°.
			KURIL ISLANDS				
	OSTROV SHUMSHU:						
316 *M 8041*	**-Mys Kurbatova.**	50° 51.8′ N 156° 28.7′ E	**L.Fl.R.** period 7.5s fl. 3s, ec. 4.5s	200 **61**	**16**	Red octagonal concrete tower; 49.	Visible 079°-344°. Reserve light range 4M.
320 *M 8042*	**-Mys Chibuynyy.**	50° 46.0′ N 156° 12.1′ E	**Fl.W.** period 6s fl. 1.5s, ec. 4.5s	344 **105**	**22**	White octagonal concrete tower, red bands; 33.	Reserve light range 8M.
322 *M 8041*	--Oponyy Range, front.	50° 40.7′ N 156° 08.7′ E	**F.R.**	141 **43**	10	Red and white octagonal concrete tower; 26.	Visible 184°36′-204°36′.
322.1 *M 8044.1*	---Rear, 240 meters 194°36′ from front.	50° 40.5′ N 156° 08.6′ E	**F.R.**	256 **78**	10	White octagonal concrete tower, red stripe; 26.	Visible 184°36′-204°36′. Reserve light range 6M.
323 *M 8045*	Mys Kokina.	50° 11.6′ N 155° 44.6′ E	**Fl.W.** period 4s fl. 1s, ec. 3s	269 **82**	9	Metal post, round concete box, lantern; 10.	
	OSTROV PARAMUSHIR:						
324 *M 8046*	**-Mys Vasil'yeva.**	50° 00.5′ N 155° 23.5′ E	**Fl.(2)W.** period 15s fl. 1.5s, ec. 4.5s fl. 3s, ec. 6s	125 **38**	**17**	White round concrete tower; 79.	Reserve light Fl.W. 6s 10M.
326 *M 8047*	-Mys Kapustnyy.	50° 03.2′ N 155° 13.7′ E	**Fl.R.** period 4s fl. 1s, ec. 3s	105 **32**	5	White octagonal concrete tower, red bands; 39.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			KURIL ISLANDS				
340 *M 8048*	Ostrov Toporkov.	48° 04.6′ N 153° 17.3′ E	**Fl.W.** period 5s fl. 1.5s, ec. 3.5s	262 **80**	9	Red octagonal concrete tower, white band; 26.	
344 *M 8049*	Ostrov Simushir (Shimshiru To).	46° 49.6′ N 151° 52.7′ E	**Fl.W.** period 3s fl. 1s, ec. 2s	217 **66**	8	White octagonal concrete tower; 26.	
345 *M 8049.3*	-Mys Otvesnyy.	47° 09.1′ N 152° 17.4′ E	**Fl.W.** period 5s fl. 1s, ec. 4s	217 **66**	5	Red round metal tower, platform; 26.	Visible 114°-006°.
346 *M 8049.5*	**-Mys Sukhina.**	46° 49.5′ N 151° 52.2′ E	**Fl.W.** period 12s fl. 1.5s, ec. 10.5s	410 **125**	**15**	White octagonal concrete tower, red bands, red base; 56.	Visible 235°-032°30′.
348 *M 8050*	**Ostrov Urup (Kastrikum).**	46° 13.9′ N 150° 34.0′ E	**Oc.W.** period 7.5s lt. 4.5s, ec. 3s	167 **51**	**19**	Red round metal tower; 75.	Visible 089°-049°. Reserve light range 10M.
349 *M 8050.5*	-Mys Chyeryepakha.	46° 13.5′ N 150° 20.4′ E	**Fl.W.** period 5s fl. 1.5s, ec. 3.5s	108 **33**	9	Red octagonal stone tower, white band; 33.	Visible 054°-268°.
352 *M 8051*	**Mys Van-der-Linda (Nobunotsu Misaki).**	45° 34.7′ N 149° 24.2′ E	**L.Fl.W.** period 12s fl. 4.5s, ec. 7.5s	367 **112**	**22**	Black octagonal concrete tower, white band; 46.	Visible 272°-211°. Reserve light range 9M.
	RACON		**D(– • •)** period 30s		**21**		Azimuth coverage 030°-340°. (3cm).
	OSTROV URUP:						
354 *M 8051.5*	-Mys Breskens.	45° 26.2′ N 147° 55.7′ E	**Fl.W.** period 3s fl. 1s, ec. 2s	207 **63**	9	Black round concrete tower, white band; 26.	
356 *M 8053*	-Mys Burevestnik.	44° 55.0′ N 147° 39.0′ E	**Fl.W.** period 4s fl. 1s, ec. 3s	62 **19**	8	Red round metal tower, white platform; 16.	**Radar reflector.**
360 *M 8052*	-Kasatka (To Simoye).	45° 00.0′ N 147° 44.0′ E	**Fl.W.** period 6s fl. 1.5s, ec. 4.5s	148 **45**	8	Red round metal tower, platform; 16.	**Radar reflector.**
	OSTROV KUNASHIR:						
364 *M 8058*	**-Mys Lovtsova (Atoiya Misaki).**	44° 26.8′ N 146° 33.5′ E	**Iso.W.** period 6s	233 **71**	**21**	Red round metal tower, white bands; 105.	Visible 105°-013°. Reserve light range 12M.
366 *M 8059*	-Mys Yuzhno-Kuril'skiy.	44° 01.2′ N 145° 51.6′ E	**Fl.W.** period 6s fl. 1.5s, ec. 4.5s	108 **33**	8	Black four-sided concrete tower; 26.	
368 *M 8060*	-Mys Veslovskiy (Keramui Saki).	43° 39.7′ N 145° 32.4′ E	**L.Fl.W.** period 7s fl. 2s, ec. 5s	66 **20**	9	White octagonal concrete tower, black bands; 56.	**Bell:** 12 strokes ev. 60s.
372 *M 8054*	**Sikotan Simi.**	43° 50.2′ N 146° 55.1′ E	**Fl.W.** period 10s fl. 1s, ec. 9s	213 **65**	**21**	White round concrete tower; 62.	Visible 133°-030°. Reserve light range 9M.
376 *M 8054.5*	-Kombuusu Saki.	43° 42.1′ N 146° 38.6′ E	**Fl.W.** period 3s fl. 1s, ec. 2s	207 **63**	9	Red round metal column, platform; 16.	Visible 257°-132°. **Radar reflector.**
376.5 *M 8054.2*	-Kamo Shima.	43° 44.0′ N 146° 42.6′ E	**Fl.W.** period 4s fl. 1s, ec. 3s	213 **65**	8	White round concrete tower; 26.	
379 *M 8054.6*	**Malokuril'skiy.**	43° 52.5′ N 146° 48.8′ E	**Fl.W.** period 5s fl. 1.5s, ec. 3.5s	289 **88**	**22**	White concrete tower, black bands; 26.	
380.5 *M 8054.7*	--W. entrance point.	43° 52.7′ N 146° 49.2′ E	**L.Fl.W.** period 6s fl. 2s, ec. 4s	224 **68**	9	Red round metal tower, platform; 16.	**Radar reflector.**

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			KURIL ISLANDS				
384 *M 8056*	Taraka Sima.	43° 37.1′ N 146° 21.4′ E	**Fl.W.** period 6s fl. 1.5s, ec. 4.5s	95 **29**	9	White round concrete tower, red bands; 39.	Visible 185°-095°. **Radar reflector.**
384.5 *M 8056.2*	-On W. point.	43° 37.5′ N 146° 16.4′ E	**Fl.W.** period 4s fl. 1s, ec. 3s	39 **12**	9	Red round metal tower; 16.	Visible 285°-227°. **Radar reflector.**
385 *M 8056.5*	Ostrov Zelenyy (Sankaku Zaki).	43° 32.1′ N 146° 11.9′ E	**Fl.W.** period 7.5s fl. 1.5s, ec. 6s	72 **22**	9	White round concrete tower, black bands; 39.	Visible 104°-012°. **Radar reflector.**
386 *M 8057*	Ostrov Yuriy.	43° 26.0′ N 146° 04.2′ E	**Fl.W.** period 5s fl. 1.5s, ec. 3.5s	79 **24**	9	White round concrete tower, black bands; 39.	
			JAPAN-HOKKAIDO-EAST COAST				
388 *M 6856*	Hutuke Saki.	43° 33.8′ N 145° 20.9′ E	**Iso.W.** period 6s	46 **14**	12	White tower; 39.	
	RACON		**(– – – – – – –)**		9		(3cm).
392 *M 6856.5*	Odaito Ko, W.	43° 34.1′ N 145° 13.6′ E	**F.Fl.G.** period 3s	43 **13**	F. 2 Fl. 5	White tower; 36.	
396 *M 6856.7*	Sibetu Ko.	43° 40.0′ N 145° 08.3′ E	**Oc.R.** period 4s lt. 3s, ec. 1s	52 **16**	4	Red round concrete tower; 36.	
400 *M 6857*	Kumbetsu.	43° 47.7′ N 145° 03.6′ E	**Oc.W.** period 8s lt. 6s, ec. 2s	177 **54**	12	White concrete tower, red bands; 49.	Visible 199°-343°.
402 *M 6857.4*	Otazunemappu Ko.	43° 57.6′ N 145° 08.4′ E	**Fl.(2)R.** period 5s	27 **8**	3	Red tower; 16.	
404 *M 6857.5*	Matunori Ko.	43° 59.0′ N 145° 09.6′ E	**Iso. R.** period 6s	46 **14**	4	Red tower; 36.	
412 *M 6859*	-No 1, S. breakwater.	44° 01.2′ N 145° 11.8′ E	**Fl.G.** period 3s	39 **12**	5	White tower; 33.	
416 *M 6861*	-No 2, S. breakwater.	44° 01.2′ N 145° 11.8′ E	**F.Fl.R.** period 6s	43 **13**	F. 3 Fl. 7	Red round concrete tower; 33.	
420 *M 6861.2*	-W. breakwater.	44° 01.2′ N 145° 11.7′ E	**Oc.G.** period 4s lt. 3s, ec. 1s	39 **12**	9	White round concrete tower; 36.	
424 *M 6858*	**Rausu.**	44° 02.3′ N 145° 13.0′ E	**Fl.W.** period 10s	285 **87**	**20**	White tower, two red bands; 52.	
426 *M 6861.4*	Okkabake Ko.	44° 04.3′ N 145° 14.4′ E	**Fl.R.** period 4s	36 **11**	5	Red beacon; 30.	
428 *M 6861.5*	Chienbetsu Ko, E. breakwater.	44° 06.1′ N 145° 14.7′ E	**Fl.(2)R.** period 6s	46 **14**	5	Red tower; 36.	
430 *M 6863*	-Siretoko, southward.	44° 11.3′ N 145° 19.3′ E	**Fl.R.** period 3s	39 **12**	5	Red tower; 26.	
	NEMURO KO:						
432 *M 6852*	-S. breakwater, head.	43° 20.3′ N 145° 34.4′ E	**Fl.(2)G.** period 6s 2 fl. 2s, ec. 4s	36 **11**	5	White round concrete tower; 26.	
436 *M 6850*	-N. breakwater, head.	43° 20.8′ N 145° 34.8′ E	**F.Fl.G.** period 3s	46 **14**	F. 4 Fl. 7	White round concrete tower; 46.	
438 *M 6853*	-Horomoshiri Ko.	43° 17.9′ N 145° 31.2′ E	**Iso.G.** period 4s	39 **12**	4	White tower; 26.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			JAPAN-HOKKAIDO-EAST COAST				
439 *M 6854*	-Onneto.	43° 16.2′ N 145° 29.7′ E	**Fl.R.** period 3s	26 **8**	3	Red tower; 16.	
440 *M 6847*	-Nokkamappu Saki.	43° 23.4′ N 145° 39.2′ E	**Fl.(2)W.** period 10s 2 fl. 3s, ec. 7s	69 **21**	12	White tower, black band; 36.	
444 *M 6845*	Onnemoto Ko, E. breakwater, head.	43° 23.3′ N 145° 47.1′ E	**F.Fl.G.** period 3s	39 **12**	F. 2 Fl. 5	White tower; 26.	
			JAPAN-HOKKAIDO-SOUTH COAST				
448 *M 6840*	Nosappu Misaki.	43° 23.1′ N 145° 49.0′ E	**Iso.W.R.** period 6s	75 **23**	14	White round concrete tower, square base; 46.	W. 105°-339°, R.-015°.
452 *M 6842*	Kaigara Sima.	43° 23.8′ N 145° 51.5′ E	**Fl.W.** period 5s fl. 1.5s, ec. 3.5s	56 **17**	7	Tower; 62.	Seasonal.
456 *M 8057.6*	Suisyosima on Dai Zaki (Mys Zorkiy).	43° 25.0′ N 145° 54.0′ E	**Fl.R.** period 3s fl. 1s, ec. 2s	39 **12**	5	Red round tower, white bands; 39.	
456.5 *M 8057.8*	-On W. point.	43° 27.2′ N 145° 56.8′ E	**L.Fl.W.** period 6s	72 **22**	9	White concrete tower; 39.	
458 *M 6839.6*	Goyomai Ko.	43° 22.3′ N 145° 48.6′ E	**Fl.G.** period 3s	33 **10**	3	White tower; 16.	
460 *M 6839*	Habomainosiri Sima.	43° 20.1′ N 145° 46.3′ E	**Fl.W.R.** period 5s	72 **22**	8	White tower; 39.	R. 027°-035°, W.-221°, R.-243°, W.-027°.
464 *M 6839.4*	Habomai Ko, S. breakwater.	43° 20.4′ N 145° 45.7′ E	**Fl.G.** period 3s	39 **12**	3	White tower; 36.	
468 *M 6839.2*	-S.	43° 20.4′ N 145° 45.8′ E	**Fl.G.** period 4s	43 **13**	5	White tower; 36.	
469 *M 6838.4*	Okineppu Ko.	43° 19.6′ N 145° 41.7′ E	**Fl.R.** period 4s	30 **9**	3	Red tower; 27.	
470 *M 6837.7*	Tomoshiri Ko.	43° 18.9′ N 145° 40.2′ E	**Fl.R.** period 3s	26 **8**	3	Red tower; 16.	
472 *M 6836*	**Hanasaki.**	43° 16.7′ N 145° 35.3′ E	**Oc.W.R.** period 8s lt. 6s, ec. 2s	102 **31**	**15**	White tower, red bands; 33.	R. 217°-257°, W.-282°, R.-295°, W.-323°, R.-010°, W.-148°.
474 *M 6837.5*	-Detached breakwater, E. head.	43° 16.2′ N 145° 34.7′ E	**Fl.G.** period 3s	49 **15**	4	White tower; 33.	
476 *M 6837*	-On breakwater.	43° 16.7′ N 145° 34.5′ E	**Fl.(2)R.** period 6s	49 **15**	5	Red tower; 46.	
478 *M 6835.5*	Nemuro Konbumori.	43° 13.4′ N 145° 33.2′ E	**Oc.G.** period 4s lt. 3s, ec. 1s	39 **12**	4	White tower; 28.	
480 *M 6835*	Yururi Shima.	43° 12.7′ N 145° 35.5′ E	**Fl.W.** period 3s	174 **53**	5	White tower, black bands; 43.	
484 *M 6834.5*	Otiisiko, N. breakwater.	43° 11.0′ N 145° 31.0′ E	**Fl.R.** period 3s	46 **14**	4	Red round concrete tower; 36.	
486 *M 6834.3*	-W. breakwater.	43° 11.0′ N 145° 30.7′ E	**Fl.G.** period 3s	36 **11**	5	White tower; 33.	
488 *M 6834*	**Otiisi Misaki.**	43° 09.9′ N 145° 30.9′ E	**Fl.W.R.** period 8s	157 **48**	**19**	White tower, red band; 49.	W. 207°-048°, R.-070°.
492 *M 6830*	**Tobutsu Saki.**	43° 04.6′ N 145° 10.1′ E	**Fl.W.R.** period 5s	161 **49**	**19**	White tower, red band; 39.	R. 215°-270°, W.-215°. F.W. auxiliary light illuminates Hikake Iwa 1.6 miles ENE.
496 *M 6831*	Kiritappu Ko, E. breakwater.	43° 05.1′ N 145° 08.1′ E	**Fl.G.** period 4s	39 **12**	5	White round concrete tower; 30.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			JAPAN-HOKKAIDO-SOUTH COAST				
498 *M 6830.4*	Biwase Hana.	43° 03.1′ N 145° 05.4′ E	**Fl.G.** period 3s	39 **12**	5	White tower; 26.	
500 *M 6828*	Akkeshi.	42° 56.9′ N 144° 51.9′ E	**Fl.W.** period 10s	367 **112**	12	White round concrete tower; 26.	
502 *M 6828.4*	Tokotan Ko, breakwater.	42° 59.7′ N 144° 52.1′ E	**Iso.R.** period 4s	36 **11**	4	Red tower; 27.	
504 *M 6829*	Akkesi Ko breakwater, N. head.	43° 02.4′ N 144° 49.8′ E	**Fl.(2)R.** period 6s	46 **14**	5	Red tower; 36.	
508 *M 6826*	Konbumori.	42° 56.9′ N 144° 31.3′ E	**Fl.W.R.** period 5s	295 **90**	11	White tower, black band; 36.	R. 040°-090°, W.-040°.
510 *M 6826.5*	-Konbumori Ko.	42° 57.0′ N 144° 31.7′ E	**Fl.(2)R.** period 6s	43 **13**	3	Red tower; 26.	
512 *M 6822*	Katsurakoi, Ko.	42° 56.7′ N 144° 26.8′ E	**Fl.R.** period 3s	43 **13**	3	Red tower; 36.	
516 *M 6814*	**-Kushiro Saki.**	42° 58.2′ N 144° 22.4′ E	**Fl.W.** period 15s	167 **51**	**19**	White tower, two red bands; 56.	Visible 300°-156°. **DGPS Station.**
520 *M 6814.2*	Sireto Syo.	42° 57.7′ N 144° 22.1′ E	**Q.(6)+L.Fl.W.** period 15s	49 **15**	5	S. CARDINAL YB, beacon, topmark; 43.	
522 *M 6814.1*	-Approach.	42° 57.9′ N 144° 23.2′ E	**Fl.(2)R.** period 6s	36 **11**	3	Red tower; 16.	
524 *M 6815*	-S. breakwater, head.	42° 58.5′ N 144° 21.5′ E	**Oc.R.** period 4s	43 **13**	4	Red round concrete tower; 43.	Visible 113°-325°.
529 *M 6814.5*	-Detached breakwater, W. head.	42° 58.7′ N 144° 21.0′ E	**Fl.(2)R.** period 6s	59 **18**	7	Red tower; 46.	
532 *M 6816.4*	-N. breakwater, N. head.	42° 59.3′ N 144° 21.5′ E	**F.Fl.R.** period 6s	46 **14**	F. 2 Fl. 5	Red round concrete tower; 36.	
536 *M 6816*	--S. head.	42° 58.7′ N 144° 21.5′ E	**Fl.(2)G.** period 6s	39 **12**	3	White round concrete tower; 36.	
540 *M 6814.4*	-Nisiko S. breakwater, E. head.	42° 59.4′ N 144° 20.5′ E	**Fl.G.** period 3s	49 **15**	5	White tower; 36.	
542 *M 6814.3*	--W. head.	42° 59.3′ N 144° 18.7′ E	**Fl.R.** period 3s	49 **15**	5	Red tower; 32.	
	KUSHIRO KO:						
544 *M 6813*	-AVIATION LIGHT.	43° 02.6′ N 144° 11.8′ E	**Al.Fl.W.G.** period 4.3s	364 **111**	W. 3 G. 1	Metal framework tower.	
548 *M 6812.4*	-Shiranuka Ko, S. breakwater.	42° 57.1′ N 144° 05.1′ E	**F.Fl.R.** period 4s	43 **13**	F. 2 Fl. 5	Red round concrete tower; 36.	
552 *M 6812*	**Tokachi Otu.**	42° 40.3′ N 143° 37.8′ E	**Fl.(3)W.** period 20s	190 **58**	**20**	White tower, black bands; 46.	Visible 222°-055°.
554 *M 6811.7*	Taiki Ko.	42° 28.4′ N 143° 26.0′ E	**Iso.G.** period 4s	43 **13**	4	White tower; 27.	
556 *M 6807.5*	**Hiroo.**	42° 17.1′ N 143° 19.2′ E	**Fl.(2)W.** period 15s 2 fl. 5s, ec. 10s	125 **38**	**17**	White square concrete tower; 43.	Visible 197°-017°.
	TOKACHI KO:						
560 *M 6808*	-S. (outside) breakwater, head.	42° 18.1′ N 143° 20.8′ E	**Fl.G.** period 4s	49 **15**	5	White tower; 32.	
562 *M 6809*	--Breakwater extension.	42° 18.1′ N 143° 20.4′ E	**Fl.R.** period 4s	46 **14**	5	Red tower; 36.	
564 *M 6810*	-Inside breakwater, head.	42° 17.5′ N 143° 19.4′ E	**Fl.(2)R.** period 6s	36 **11**	5	Red tower; 30.	

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			JAPAN-HOKKAIDO-SOUTH COAST				
572 *M 6803*	Shoya Ko, W. breakwater, head.	42° 02.2′ N 143° 18.0′ E	**Fl.R.** period 3s	45 **14**	5	Red tower; 19.	
576 *M 6802*	**Erimo Misaki**.	41° 55.5′ N 143° 14.6′ E	**Fl.W.** period 15s	239 **73**	**22**	White tower; 46.	
	RAMARK						
578 *M 6799*	Utabeto ko.	41° 59.6′ N 143° 09.6′ E	**Fl.R.** period 4s	33 **10**	3	Red tower; 16.	
584 *M 6797*	Erimo Ko.	42° 00.9′ N 143° 08.5′ E	**Fl.(2)R.** period 5s	46 **14**	4	Red tower; 36.	
588 *M 6798*	-S. jetty.	42° 00.9′ N 143° 08.7′ E	**Fl.R.** period 3s	27 **8**	4	Red tower; 25.	
589 *M 6794.5*	Asahi Ko.	42° 03.7′ N 143° 03.7′ E	**Fl.R.** period 3s	36 **11**	3	Red tower; 16.	
590 *M 6794*	Huyusima Ko.	42° 06.0′ N 142° 59.1′ E	**Fl.(2)R.** period 6s	46 **14**	5	Red tower; 27.	
596 *M 6792*	-W. breakwater.	42° 07.5′ N 142° 55.0′ E	**Fl.(2)G.** period 6s	39 **12**	4	White tower; 28.	
600 *M 6791*	-Outer E. breakwater, head.	42° 07.3′ N 142° 54.6′ E	**Fl.(2)R.** period 6s	46 **14**	5	Red tower; 36.	
602 *M 6790*	Utoma Ko.	42° 07.9′ N 142° 52.4′ E	**Fl.R.** period 3s	39 **12**	4	Red tower; 28.	
604 *M 6786*	**Urakawa Ko.**	42° 09.8′ N 142° 46.6′ E	**Fl.W.** period 5s	154 **47**	**19**	White tower, red bands; 39.	Visible 314°-107°.
608 *M 6788*	-S. breakwater, head.	42° 09.9′ N 142° 45.6′ E	**Fl.R.** period 3s	43 **13**	7	Red metal column; 28.	
612 *M 6789*	-N. breakwater, head.	42° 09.9′ N 142° 46.1′ E	**F.Fl.G.** period 5s	36 **11**	F. 2 Fl. 5	White round concrete tower; 30.	
616 *M 6784*	Ogifushi Hana E. breakwater.	42° 11.9′ N 142° 39.5′ E	**Fl.R.** period 4s	43 **13**	7	Red tower; 31.	F.W. Illuminates reef 140 meters SW.
620 *M 6781*	Mituisi ko, S. breakwater.	42° 14.6′ N 142° 32.9′ E	**Fl.R.** period 3s	52 **16**	7	Red tower; 32.	
624 *M 6783*	-W. breakwater.	42° 14.7′ N 142° 32.9′ E	**Iso.G.** period 6s	46 **14**	3	White round concrete tower; 27.	
626 *M 6780*	Harutati-sizunai.	42° 16.1′ N 142° 28.9′ E	**Fl.(2)R.** period 5s	33 **10**	3	Red tower; 16.	
628 *M 6778*	Higasi-sizunai.	42° 17.8′ N 142° 27.0′ E	**Fl.R.** period 5s	43 **13**	3	Red tower; 27.	
632 *M 6777*	**Sizunai.**	42° 19.7′ N 142° 22.4′ E	**Fl.W.** period 10s	299 **91**	**20**	White tower, red band; 39.	Visible 307°-120°.
636 *M 6777.5*	-Breakwater, head.	42° 19.4′ N 142° 22.2′ E	**Fl.R.** period 3s	30 **9**	4	Red tower; 18.	
640 *M 6776*	Seppu Ko, S. breakwater, head.	42° 22.7′ N 142° 16.4′ E	**Fl.(2)R.** period 6s	43 **13**	4	Red tower; 28.	
644 *M 6775*	Atsuga Ko, S. breakwater.	42° 26.0′ N 142° 12.1′ E	**Fl.R.** period 3s	46 **14**	5	Red round concrete tower; 36.	
648 *M 6774.6*	Hidaka Monbetu.	42° 28.3′ N 142° 04.9′ E	**Iso.W.** period 8s	148 **45**	12	White tower; 43.	
652 *M 6774.4*	-Sea berth.	42° 35.1′ N 141° 47.8′ E	**Mo.(U)W.** period 10s	98 **30**	10		E. and W. heads marked by Mo.(U)W. 10s.
658 *M 6774.3*	-E. breakwater.	42° 34.8′ N 141° 46.3′ E	**Fl.(2)R.** period 6s	56 **17**	7	Red tower; 46.	

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			JAPAN-HOKKAIDO-SOUTH COAST				
660 *M 6774*	-Sea berth.	42° 36.3′ N 141° 38.7′ E	**Mo.(U)W.** period 14s	105 **32**	13		Sea berth marked with Mo.(U) 14s and siren Mo.(U) 30s at NW. and SE. ends. **Radar reflector.**
664 *M 6773*	-W. breakwater.	42° 37.3′ N 141° 37.2′ E	**Fl.(2)G.** period 6s	43 **13**	5	White tower; 43.	
668 *M 6773.4*	-S. Breakwater.	42° 37.6′ N 141° 37.1′ E	**Iso.G.** period 6s	33 **10**	4	White round concrete tower; 30.	
672 *M 6773.7*	-Tomakomai Ko, E. breakwater.	42° 36.9′ N 141° 37.2′ E	**Fl.R.** period 3s	56 **17**	7	Red round concrete structure; 52.	
673 *M 6773.75*	--E. detached breakwater, SW. head.	42° 36.8′ N 141° 37.1′ E	**Fl.Y.** period 3s	43 **13**	7	Yellow tower; 32.	
674 *M 6773.1*	--A, W. detached breakwater, NE. head.	42° 37.3′ N 141° 35.3′ E	**Fl.Y.** period 4s	14 **4**	4	SPECIAL Y, beacon, "X" topmark; 12.	
675 *M 6773.3*	--B, SW. head.	42° 37.1′ N 141° 34.5′ E	**Fl.Y.** period 4s	14 **4**	4	SPECIAL Y, beacon, "X" topmark; 12.	**Radar reflector.**
676 *M 6772*	**Tomakomai.**	42° 37.3′ N 141° 34.2′ E	**Fl.W.** period 12s	121 **37**	**17**	White round concrete tower, black bands; 105.	Visible 255°-075°.
680 *M 6770*	**Ayoro Hana.**	42° 27.2′ N 141° 12.0′ E	**Al.Fl.W.R.** period 16s	138 **42**	**18**	White concrete column, red bands; 43.	Visible 226°-075°.
684 *M 6770.3*	Noboribetsu Ko, breakwater, head.	42° 26.8′ N 141° 11.2′ E	**Fl.R.** period 3s	52 **16**	5	Red round concrete tower; 33.	
688 *M 6745*	**Tikiu Misaki.**	42° 18.1′ N 141° 00.1′ E	**Fl.(2)W.** period 30s 2 fl. 8s, ec. 22s	430 **131**	**24**	White tower; 49.	
692 *M 6745.5*	Oinaosi Gyoko.	42° 18.4′ N 140° 58.1′ E	**Fl.G.** period 3s	43 **13**	6	White tower; 36.	
	MURORAN KO:						
696 *M 6746.6*	-Breakwater, SW. head.	42° 20.7′ N 140° 55.7′ E	**Iso.G.** period 6s	43 **13**	5	White round concrete tower; 36.	R. lights mark detached breakwater heads 150 meters SE.
704 *M 6746.4*	-S. outer breakwater.	42° 20.9′ N 140° 55.0′ E	**Oc.R.** period 8s lt. 6s, ec. 2s	49 **15**	12	Red round concrete tower; 46.	
708 *M 6746*	-N. outer breakwater, S. head.	42° 21.2′ N 140° 55.0′ E	**Fl.(2)G.** period 6s	49 **15**	7	White tower; 46.	
712 *M 6747*	-S. auxiliary breakwater, head.	42° 21.0′ N 140° 55.7′ E	**F.Fl.R.** period 5s	43 **13**	F. 2 Fl. 5	Red tower; 36.	
716 *M 6749*	-N. breakwater, head.	42° 21.2′ N 140° 56.9′ E	**Fl.G.** period 4s	33 **10**	3	White tower; 23.	F.Y., Iso.W., Iso.R. and Iso.G. mark bridge 230 meters SE.
720 *M 6750*	-S. breakwater, head.	42° 21.0′ N 140° 57.0′ E	**Fl.R.** period 4s	43 **13**	3	Red tower; 36.	
724 *M 6748*	-Sea berth.	42° 21.6′ N 140° 56.6′ E	**Mo.(U)W.** period 10s	105 **32**	11		
736 *M 6754.3*	-E. end Range, front.	42° 21.1′ N 140° 58.9′ E	**F.R.**	105 **32**	4	White framework tower, red triangular daymark point up; 98.	
740 *M 6754.31*	--Rear, 400 meters 090° from front.	42° 21.1′ N 140° 59.1′ E	**F.R.**	115 **35**	4	White framework tower, red triangular daymark point down; 108.	
744 *M 6756*	-Huzi Ironworks Wharf.	42° 20.6′ N 140° 58.8′ E	**Fl.(3)G.** period 13s	23 **7**	8	White round metal tower; 12.	

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			JAPAN-HOKKAIDO-SOUTH COAST				
748 *M 6755*	-Huzi Ironworks Range No 1, front.	42° 20.5′ N 140° 58.9′ E	**F.R.**	62 **19**	6	Aluminum framework tower, red triangular daymark point up; 56.	
752 *M 6755.1*	--Rear, about 173 meters 124.1° from front.	42° 20.4′ N 140° 59.0′ E	**F.R.**	79 **24**	6	Aluminum framework tower, red triangular daymark point up; 75.	
756 *M 6762*	-Huzi Seitetu Range No 2, front.	42° 20.9′ N 141° 00.4′ E	**F.R.**	56 **17**	6	Black triangular framework beacon, red triangular daymark point up; 56.	
760 *M 6762.1*	--Rear, about 115 meters 079° from front.	42° 20.9′ N 141° 00.5′ E	**F.R.**	72 **22**	6	Black triangular framework beacon, red triangular daymark point up; 72.	
764 *M 6763*	-Huzi Seitetu Range No 3, front.	42° 21.0′ N 141° 00.3′ E	**F.R.**	62 **19**	6	Aluminum framework tower, red triangular daymark point up; 56.	
768 *M 6763.1*	--Rear, 85 meters 079° from front.	42° 21.0′ N 141° 00.3′ E	**F.R.**	79 **24**	6	Aluminum framework tower, red triangular daymark point up; 72.	
772 *M 6768*	-Nittu Wharf Range No 1, front.	42° 19.8′ N 140° 59.0′ E	**F.R.**	59 **18**	4	Metal framework tower, red triangular daymark point up; 10.	
776 *M 6768.1*	--Rear, 50 meters 125° from front.	42° 19.8′ N 140° 59.0′ E	**F.R.**	69 **21**	4	Metal framework tower, red triangular daymark point up; 17.	
780 *M 6769*	-Nittu Wharf Range No 2, front.	42° 19.8′ N 140° 59.2′ E	**F.R.**	36 **11**	4	Metal framework tower, red triangular daymark point up; 5.	
784 *M 6769.1*	--Rear, 35 meters 110° from front.	42° 19.8′ N 140° 59.2′ E	**F.R.**	43 **13**	4	Metal framework tower, red triangular daymark point up; 10.	
788 *M 6744.5*	Date Ko, breakwater, head.	42° 27.7′ N 140° 51.5′ E	**Fl.G.** period 3s	43 **13**	7	White tower; 29.	
790.5 *M 6744.2*	-Usu Wan.	42° 30.9′ N 140° 46.1′ E	**Fl.(2)W.** period 5s	33 **10**	5	ISOLATED DANGER BRB, beacon, topmark.	
792 *M 6744*	Abuta Byochi, breakwater, head.	42° 31.8′ N 140° 46.4′ E	**Fl.R.** period 4s	39 **12**	7	Red round concrete tower; 31.	
796 *M 6742*	Toyoura Ko, S. breakwater, head.	42° 34.7′ N 140° 42.5′ E	**Iso.R.** period 4s	27 **8**	5	Red tower; 18.	
800 *M 6742.4*	-S. detached breakwater, W. head.	42° 34.7′ N 140° 42.5′ E	**Iso.G.** period 4s	39 **12**	5	White concrete column; 30.	
808 *M 6741.5*	Reubon Ko.	42° 34.4′ N 140° 35.9′ E	**Fl.R.** period 3s	43 **13**	3	Red round concrete tower; 18.	
810 *M 6741.4*	Sitsukari Toge.	42° 35.1′ N 140° 28.5′ E	**Fl.(2)R.** period 6s	39 **12**	5	Red tower; 18.	
811 *M 6741.35*	Oshamanbe Ko.	42° 31.7′ N 140° 24.1′ E	**Fl.G.** period 3s	26 **8**	3	White tower; 16.	
812 *M 6740*	Sawara Ko, N. breakwater, head.	42° 07.8′ N 140° 41.3′ E	**Fl.(2)R.** period 6s	39 **12**	5	Red tower; 31.	
814 *M 6740.5*	Dokui Saki, breakwater, head.	42° 07.6′ N 140° 38.7′ E	**Fl.R.** period 3s	27 **8**	3	Red tower; 16.	
816 *M 6741*	Mori Ko, W. breakwater.	42° 06.8′ N 140° 35.5′ E	**F.Fl.R.** period 5s	36 **11**	F. 2 Fl. 5	Red tower; 30.	
816.5 *M 6741.05*	-Breakwater, head.	42° 08.2′ N 140° 30.6′ E	**Fl.G.** period 3s	27 **8**	3	White tower; 16.	
818 *M 6741.1*	Ishikura Ko.	42° 09.6′ N 140° 28.6′ E	**Fl.(2)G.** period 6s	28 **9**	3	White round tower; 16.	

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820 *M 6741.2*	Otoshibe Ko.	42° 11.6′ N 140° 25.9′ E	**Fl.G.** period 3s	39 **12**	5	White tower; 18.	
820.5 *M 6741.25*	-Breakwater, head.	42° 13.3′ N 140° 23.7′ E	**Iso.G.** period 4s	27 **8**	3	White tower; 16.	
824 *M 6741.3*	Yakumo Ko.	42° 15.4′ N 140° 17.4′ E	**Fl.(2)G.** period 6s	39 **12**	5	White tower; 29.	
828 *M 6738*	Suna Saki.	42° 08.2′ N 140° 42.7′ E	**Fl.W.** period 4s	46 **14**	12	White tower, red bands; 39.	
830 *M 6737*	Dekima Saki, SE.	42° 03.4′ N 140° 48.5′ E	**Fl.(2)G.** period 6s	36 **11**	3	White tower; 27.	
	SIKABA KO:						
832 *M 6735*	-E. breakwater.	42° 02.1′ N 140° 49.6′ E	**Fl.G.** period 3s	46 **14**	3	White tower; 27.	
836 *M 6733*	Usuziri Wan, N. breakwater, head.	41° 56.2′ N 140° 56.6′ E	**Fl.(2)G.** period 6s	36 **11**	5	White tower; 30.	
842 *M 6734*	Ohune Ko.	41° 58.2′ N 140° 55.0′ E	**Oc.R.** period 4s lt. 3s, ec. 1s	39 **12**	4	Red tower; 27.	
844 *M 6732*	Kakkumi Ko, N. breakwater.	41° 54.4′ N 140° 58.9′ E	**Iso.G.** period 4s	42 **13**	4	White round concrete tower; 30.	
848 *M 6731*	Osatsube Ko, N. breakwater.	41° 53.7′ N 141° 00.8′ E	**F.Fl.G.** period 5s	36 **11**	F. 2 Fl. 5	White tower; 30.	
850 *M 6730.5*	Kinaosi Ko.	41° 53.4′ N 141° 04.1′ E	**Fl.G.** period 3s	42 **13**	3	White tower; 27.	
851 *M 6730.3*	Furube Ko.	41° 52.1′ N 141° 07.1′ E	**Fl.(2)G.** period 6s	49 **15**	3	White tower; 31.	
852 *M 6730*	Todohokke Ko, E. breakwater.	41° 49.5′ N 141° 10.0′ E	**Fl.G.** period 4s	49 **15**	7	White round concrete tower; 31.	
856 *M 6729*	**Esan Misaki.**	41° 48.9′ N 141° 11.0′ E	**Iso.W.** period 6s	144 **44**	**18**	White round concrete tower; 62.	Visible 156°-335°.
	RAMARK						
858 *M 6728.5*	-Breakwater.	41° 47.6′ N 141° 10.3′ E	**Fl.(2)R.** period 6s	36 **11**	3	Red tower; 16.	
860 *M 6727*	Yamasedomari Ko, S. breakwater.	41° 47.1′ N 141° 07.8′ E	**Iso.R.** period 4s	39 **12**	5	Red tower; 36.	
860.5 *M 6727.4*	-W. breakwater.	41° 47.2′ N 141° 07.9′ E	**Iso.G.** period 4s	36 **11**	5	White tower; 30.	
864 *M 6725*	Hiura Misaki.	41° 43.6′ N 141° 03.2′ E	**Oc.(2)W.R.** period 12s	75 **23**	14	White tower; 31.	R. 227°-241°, W.-227°.
868 *M 6724.4*	Toi Ko, S. breakwater.	41° 43.1′ N 141° 01.5′ E	**Fl.G.** period 4s	39 **12**	3	White round concrete tower; 36.	
876 *M 6724*	**Siokubi Misaki.**	41° 42.9′ N 140° 57.8′ E	**Fl.(2)W.** period 20s 2 fl. 5s, ec. 15s	164 **50**	**19**	White round metal tower; 36.	Visible 279°-098°.
880 *M 6722*	Kamaya Ko, W. breakwater, head.	41° 43.8′ N 140° 56.2′ E	**Iso.G.** period 4s	43 **13**	4	White round concrete tower; 27.	
882 *M 6720*	Kameda.	41° 45.1′ N 140° 52.3′ E	**Iso.R.** period 4s	43 **13**	5	Red tower; 27.	
884 *M 6719*	Shinori Ko, S. breakwater.	41° 45.8′ N 140° 49.3′ E	**F.Fl.G.** period 6s	33 **10**	F. 1 Fl. 3	White round concrete tower; 30.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
	HAKODATE KO:						
888 *M 6718*	-AVIATION LIGHT.	41° 46.6′ N 140° 48.7′ E	**Al.Fl.W.G.** period 4.3s	147 **45**	W. 3 G. 1	Metal framework tower.	
892 *M 6716*	-Osima Sumiyosi Ko, E. breakwater, head.	41° 45.2′ N 140° 43.3′ E	**Fl.(2)R.** period 6s	42 **13**	3	Red concrete column; 30.	
896 *M 6715*	-Fishery Harbor, W. breakwater.	41° 46.4′ N 140° 41.8′ E	**Fl.(2)R.** period 5s	33 **10**	4	Red tower; 31.	F. Bu. on E. breakwater close SE.
898 *M 6707.5*	-Outer breakwater, N. head.	41° 47.7′ N 140° 41.6′ E	**Fl.R.** period 3s	49 **15**	8	Red tower; 49.	
900 *M 6706*	-W. breakwater, N. head.	41° 47.7′ N 140° 41.9′ E	**Fl.(2)R.** period 6s	43 **13**	7	Red round concrete tower; 46.	
904 *M 6707*	-N. breakwater, S. head.	41° 47.9′ N 140° 42.0′ E	**Fl.(2)G.** period 6s	46 **14**	7	White tower; 46.	
908 *M 6707.4*	-N. auxiliary breakwater, head.	41° 48.4′ N 140° 41.8′ E	**Fl.R.** period 5s	39 **12**	7	Red round concrete tower; 39.	
912 *M 6708*	-Training Wall No 3, head.	41° 48.6′ N 140° 42.1′ E	**F.Fl.G.** period 5s	39 **12**	F. 2 Fl. 5	White metal framework tower; 36.	
916 *M 6714*	-Central pier, S. basin, breakwater, head.	41° 46.8′ N 140° 43.5′ E	**Fl.G.** period 3s	19 **6**	3	White round metal framework tower; 16.	
920 *M 6704*	-Outer Harbor, Nippon Cement sea berth.	41° 48.1′ N 140° 39.3′ E	**Mo.(U)W.** period 10s	33 **10**	11		**Siren:** 2 bl. ev. 20s. **Radar reflector.**
922 *M 6704.5*	-Breakwater.	41° 49.0′ N 140° 39.0′ E	**Fl.G.** period 3s	30 **9**	3	White tower; 16.	
924 *M 6703*	Moheji Ko, E. breakwater, head.	41° 45.6′ N 140° 36.4′ E	**F.Fl.G.** period 3s	36 **11**	F. 2 Fl. 5	White tower; 31.	
928 *M 6702*	**Kattoshi Misaki.**	41° 44.5′ N 140° 36.0′ E	**Oc.W.** period 10s lt. 6s, ec. 4s	151 **46**	**18**	White round concrete tower; 52.	Visible 221°-052°.
932 *M 6702.5*	Tobetsu Ko, S. breakwater.	41° 44.4′ N 140° 35.4′ E	**Iso.G.** period 4s	33 **10**	4	White round concrete tower; 30.	
934 *M 6701.5*	Kikonai Wan.	41° 41.9′ N 140° 28.9′ E	**Fl.R.** period 3s	26 **8**	3	Red tower; 16.	
936 *M 6701*	Hokuden Siriuti, sea berth.	41° 35.1′ N 140° 26.1′ E	**Mo.(U)W.** period 12s	62 **19**	10		Auxiliary light F.R. about 66 meters N. **Horn:** Mo.(U) ev. 30s. **Radar reflector.**
940 *M 6700*	Wakimoto, E. breakwater.	41° 33.8′ N 140° 26.0′ E	**Fl.G.** period 4s	49 **15**	7	White round concrete tower; 31.	
944 *M 6698*	Yagoshi Misaki.	41° 31.1′ N 140° 24.5′ E	**Fl.W.** period 5s	315 **96**	14	White round concrete tower; 26.	Visible 230°-076°.
948 *M 6695*	Fukushima Ko, E. breakwater.	41° 28.5′ N 140° 15.8′ E	**Fl.G.** period 3s	36 **11**	7	White tower; 29.	
952 *M 6696*	Hukushima Ko.	41° 28.6′ N 140° 15.7′ E	**Iso.R.** period 4s	36 **11**	5	Red round concrete tower; 18.	
956 *M 6693*	Yoshioka Ko, S. breakwater.	41° 26.7′ N 140° 14.4′ E	**F.Fl.G.** period 6s	46 **14**	F. 2 Fl. 5	White tower; 30.	
960 *M 6692*	**Shirakami Misi.**	41° 23.9′ N 140° 11.8′ E	**Al.Fl.W.R.** period 30s	121 **37**	W. **17** R. **16**	White round concrete tower, red bands; 56.	Visible 255°-101°.
960.5 *M 6691.2*	Osawa Ko.	41° 25.7′ N 140° 08.4′ E	**Fl.(2)G.** period 6s	36 **11**	3	White tower; 16.	

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			JAPAN-HOKKAIDO-SOUTH AND WEST COASTS				
964 *M 6690*	Matumae (Fukuyama).	41° 25.1′ N 140° 05.3′ E	**Iso.W.** period 6s	82 **25**	12	White tower; 22.	Visible 217°-119°. **DGPS Station.**
968 *M 6691*	-Outer breakwater.	41° 25.3′ N 140° 05.7′ E	**Iso.G.** period 6s	56 **17**	5	White tower; 46.	
972 *M 7042*	Tatehama Ko.	41° 26.7′ N 140° 02.5′ E	**F.Fl.G.** period 6s	46 **14**	F. 1 Fl. 3	White tower; 36.	
976 *M 7044*	Yoshiga Sima, on summit.	41° 26.6′ N 140° 02.0′ E	**Fl.W.** period 5s	46 **14**	5	White tower; 33.	
980 *M 7040*	Satumae Ko, W. breakwater, head.	41° 28.1′ N 140° 01.7′ E	**Fl.(2)G.** period 6s	43 **13**	5	White tower; 36.	
984 *M 7039*	Sizuura Ko, W. breakwater.	41° 29.1′ N 140° 01.1′ E	**Iso.G.** period 4s	46 **14**	5	White tower; 32.	
988 *M 6684*	Matumae O Sima.	41° 29.9′ N 139° 20.6′ E	**Fl.W.** period 4s	443 **135**	10	White round concrete tower, red bands; 39.	Visible 257°-134°.
992 *M 6686*	**Matumae Ko Sima.**	41° 21.8′ N 139° 48.8′ E	**Fl.(3)W.** period 30s 3 fl. 12s, ec. 18s	141 **43**	**18**	White octagonal concrete tower; 79.	Visible 102°-355°.
996 *M 7037*	Mokusa, entrance.	41° 29.6′ N 140° 00.8′ E	**Fl.(2)R.** period 5s	49 **15**	4	Red round concrete tower; 28.	
1000 *M 7036*	Kiyobe Ko, N. breakwater.	41° 31.2′ N 140° 00.1′ E	**Fl.G.** period 4s	27 **8**	3	White tower; 18.	
1004 *M 7034*	Era Ko, W. breakwater, head.	41° 32.7′ N 139° 59.1′ E	**Fl.R.** period 3s	36 **11**	3	Red tower; 36.	
1008 *M 7032.6*	Haraguti Ko, N. breakwater.	41° 36.4′ N 139° 58.9′ E	**Fl.G.** period 3s	33 **10**	4	White tower; 20.	
1012 *M 7033*	Haraguti Oiwa, obstruction light.	41° 36.1′ N 139° 58.9′ E	**F.W.**	111 **34**		White tower, red band; 21.	Illuminates beacon about 320 meters NNW.
1016 *M 7032.4*	Higatatomari Misaki.	41° 39.0′ N 139° 59.8′ E	**Oc.(2)W.** period 7s lt. 4s, ec. 1s lt. 1s, ec. 1s	141 **43**	14	White tower, red bands; 36.	
1024 *M 7031*	Siofuki Ko, N. breakwater.	41° 44.4′ N 140° 02.9′ E	**Fl.G.** period 3s	52 **16**	5	White tower; 36.	
			JAPAN-HOKKAIDO-WEST COAST				
	ESASHI KO:						
1032 *M 7028*	**-Kamome Sima.**	41° 52.2′ N 140° 06.7′ E	**Fl.(3)W.** period 13s	118 **36**	**17**	White tower; 39.	Visible 007°-277°.
1036 *M 7029*	-W. breakwater, head.	41° 52.4′ N 140° 07.3′ E	**Fl.R.** period 3s	49 **15**	7	Red tower; 39.	
1040 *M 7029.4*	-E. breakwater, head.	41° 52.4′ N 140° 07.3′ E	**Fl.G.** period 5s	36 **11**	3	White tower; 32.	
1044 *M 7028.4*	-E. outer breakwater, head.	41° 52.4′ N 140° 07.3′ E	**Fl.G.** period 3s	43 **13**	5	White tower; 36.	
1048 *M 7026*	Otobe Ko, W. breakwater.	41° 58.2′ N 140° 07.7′ E	**Fl.(2)G.** period 6s	46 **14**	5	White tower; 36.	Mercury vapor light on E. breakwater head.
1052 *M 7025.4*	Hiyama Toyohama Ko, W. breakwater.	42° 02.7′ N 140° 04.9′ E	**F.Fl.G.** period 5s	52 **16**	F. 1 Fl. 3	White tower; 33.	
1056 *M 7025.2*	Ainuma Ko, N. breakwater.	42° 04.4′ N 140° 03.5′ E	**Fl.G.** period 3s	52 **16**	3	White tower; 36.	

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			JAPAN-HOKKAIDO-WEST COAST				
1064 *M 7024.4*	-S. breakwater.	42° 07.5′ N 139° 59.1′ E	**Fl.G.** period 4s fl. 1s, ec. 3s	56 **17**	7	White tower; 36.	
1068 *M 7024.6*	-E. breakwater.	42° 07.7′ N 139° 58.9′ E	**Fl.R.** period 3s	49 **15**	3	Red tower; 31.	
1072 *M 7023.8*	Ponmoshiri Misaki.	42° 08.0′ N 139° 55.4′ E	**Fl.(2)W.** period 8s 2 fl. 3s, ec. 5s	141 **43**	12	White tower, black bands; 36.	
1076 *M 7023.2*	Murotsu Sima.	42° 01.1′ N 139° 27.0′ E	**Fl.W.R.** period 5s	49 **15**	8	White round concrete tower, red band; 36.	W. 267°-237°, R.-267°.
1080 *M 7022*	**Aonae Misaki.**	42° 03.7′ N 139° 27.2′ E	**Fl.W.** period 10s	88 **27**	**15**	White tower, red bands; 52.	Visible 233°-110°.
1084 *M 7023*	-N. breakwater, head.	42° 03.7′ N 139° 27.5′ E	**Fl.(2)G.** period 6s	39 **12**	5	White tower; 15.	
1088 *M 7021*	Okushiri.	42° 10.8′ N 139° 31.6′ E	**Fl.G.** period 3s	39 **12**	7	White tower; 33.	
1092 *M 7023.3*	Kamuiwaki, W. breakwater.	42° 10.2′ N 139° 24.5′ E	**Fl.G.** period 5s	40 **12**	7	White tower; 33.	
1096 *M 7020*	**Inaho Misaki.**	42° 14.3′ N 139° 33.6′ E	**Fl.W.** period 15s	135 **41**	**18**	White square concrete tower, black bands; 56.	Visible 070°-336°. F.W. illuminates rock about 1095 meters N.
	RAMARK						
1100 *M 7019*	Kouta Misaki.	42° 13.4′ N 139° 48.9′ E	**Oc.(3)W.** period 13s lt. 6s, ec. 1s lt. 2s, ec. 1s lt. 2s, ec. 1s	102 **31**	14	White round concrete tower; 33.	
1104 *M 7019.4*	Kudo Ko, S. breakwater.	42° 13.2′ N 139° 49.7′ E	**Fl.(2)R.** period 6s	56 **17**	3	Red round concrete tower; 33.	
1108 *M 7018.5*	Midareno Saki.	42° 21.2′ N 139° 46.7′ E	**Fl.W.** period 5s	105 **32**	12	White round concrete tower; 33.	
1112 *M 7018*	Setana K5, S. outer breakwater.	42° 27.0′ N 139° 50.5′ E	**Iso.G.** period 6s	49 **15**	9	White round concrete tower; 36.	
1116 *M 7016*	Biya entrance.	42° 33.0′ N 139° 50.2′ E	**Fl.(2)R.** period 6s	32 **10**	5	Red tower; 27.	
1120 *M 7015*	Suchiku Mi.	42° 35.8′ N 139° 49.5′ E	**F.Fl.R.** period 3s	49 **15**	F. 2 Fl. 5	Red round concrete tower; 36.	
1124 *M 7014*	**Motta Misaki.**	42° 37.0′ N 139° 49.3′ E	**Fl.(2)W.** period 24s	925 **282**	**23**	White tower, black band; 46.	Visible 356°-211°.
1128 *M 7013.4*	Kimaki Misaki.	42° 41.4′ N 139° 55.4′ E	**Oc.(2)W.** period 6s	135 **41**	14	Red tower, white bands; 31.	
1130 *M 7013.2*	Chihase Ko.	42° 41.3′ N 140° 00.1′ E	**Fl.R.** period 3s	46 **14**	5	Red tower; 36.	
1132 *M 7013*	Honme Misaki.	42° 44.6′ N 140° 06.9′ E	**Fl.(3)W.** period 15s	157 **48**	12	White hexagonal tower, black bands; 36.	
			JAPAN-HOKKAIDO-WEST AND NORTH COASTS				
1136 *M 7012*	**Benkei Misaki.**	42° 49.6′ N 140° 11.1′ E	**Fl.W.** period 8s	108 **33**	**16**	White tower, red band; 43.	Visible 057°-308°.
1140 *M 7011*	Daimaru Iso.	42° 48.4′ N 140° 13.5′ E	**Fl.W.** period 3s	36 **11**	5	White tower; 36.	
1144 *M 7010*	Suttsu, N. breakwater.	42° 47.8′ N 140° 14.2′ E	**Fl.R.** period 3s	52 **16**	5	Red round concrete tower; 32.	

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			JAPAN-HOKKAIDO-WEST AND NORTH COASTS				
1148 *M 7009*	Yokoma Ko.	42° 51.0′ N 140° 20.1′ E	**F.W.**	118 **36**		White tower; 24.	Illuminates W. beacon about 470 meters W.
1152 *M 7006*	Iwanai Ko, W. breakwater, head.	42° 59.8′ N 140° 30.6′ E	**Fl.(2)R.** period 6s	46 **14**	5	Red tower; 36.	
1156 *M 7008*	-N. breakwater.	42° 59.3′ N 140° 30.6′ E	**Fl.R.** period 3s	21 **6**	3	Red tower; 16.	
1160 *M 7005.7*	Shiribesitomari Ko.	43° 04.1′ N 140° 29.5′ E	**Fl.(2)W.** period 8s 2 fl. 3s, ec. 5s	98 **30**	12	White tower, red band; 33.	F.W. illuminates beacon on reef close WSW.
1164 *M 7005.5*	Kamoenai Ko, W. breakwater.	43° 08.5′ N 140° 25.4′ E	**Iso.G.** period 4s	46 **14**	4	White tower; 32.	
1168 *M 7005.2*	Kawashiro Ko Offing Breakwater, head.	43° 13.1′ N 140° 19.6′ E	**Fl.G.** period 3s	39 **12**	3	White tower; 18.	
1172 *M 7004*	**Kamui Misaki.**	43° 20.0′ N 140° 20.8′ E	**Fl.W.** period 15s	269 **82**	**21**	White tower, black band; 39.	Visible 008°-243°.
1176 *M 7005*	Yobetsu Ko, N. breakwater.	43° 19.9′ N 140° 22.7′ E	**Fl.(2)R.** period 6s	36 **11**	4	Red round concrete tower; 16.	
1178 *M 7004.5*	-E. breakwater.	43° 20.0′ N 140° 23.9′ E	**Fl.R.** period 3s	39 **12**	5	Red tower; 33.	
1178.5	Hiduka Ko.	43° 21.3′ N 140° 27.7′ E	**Fl.G.** period 3s	27 **8**	3	White tower; 16.	
1180 *M 7003*	**Shakotan De Misaki.**	43° 22.4′ N 140° 28.9′ E	**Fl.W.** period 5s	462 **141**	**19**	White round concrete tower, red band; 43.	**DGPS Station.**
1184 *M 7002*	Bikuni Ko, outer breakwater.	43° 18.1′ N 140° 36.5′ E	**F.Fl.R.** period 6s	43 **13**	F. 2 Fl. 5	Red round concrete tower; 36.	
1188 *M 7001*	Furubira Ko, E. breakwater.	43° 16.4′ N 140° 38.7′ E	**Fl.R.** period 5s	36 **11**	7	Red tower; 36.	
1196 *M 6998*	Yoichi Ko, basin, S. breakwater, head.	43° 12.8′ N 140° 46.7′ E	**Fl.G.** period 4s	25 **8**	3	White tower; 20.	
1200 *M 6998.6*	--N. breakwater.	43° 12.7′ N 140° 46.7′ E	**F.Fl.R.** period 4s	32 **10**	F. 3 Fl. 7	Red tower; 29.	
1204 *M 6998.4*	---Head.	43° 12.8′ N 140° 46.9′ E	**Fl.R.** period 3s	39 **12**	5	Red tower; 27.	
1208 *M 6999.4*	-Breakwater, W. side of river mouth.	43° 12.1′ N 140° 47.6′ E	**Fl.(2)R.** period 5s	39 **12**	3	Red tower; 18.	
1210 *M 6997.5*	Oshoro.	43° 12.6′ N 140° 51.6′ E	**Dir.W.R.G.**	16 **5**	W. 13 R. 10 G. 10	White tower; 11.	F.R. 126°54′-128°54′, F.W.-129°54′, F.G.-131°54′.
1212 *M 6996*	**Hiyori Yama.**	43° 14.1′ N 141° 00.9′ E	**Fl.W.** period 8s	164 **50**	**19**	White tower, red bands; 33.	Visible 108°-347°.
1216 *M 6995*	-Breakwater, S. head.	43° 13.9′ N 141° 01.0′ E	**Fl.R.** period 3s	39 **12**	5	Red round concrete tower; 36.	
	OTARU KO:						
1220 *M 6992*	-Takashima, N. breakwater.	43° 12.8′ N 141° 01.0′ E	**Fl.R.** period 6s	43 **13**	5	Red round concrete tower; 33.	
1224 *M 6988*	-N. auxilliary breakwater, E. head.	43° 12.0′ N 141° 01.6′ E	**Fl.R.** period 4s	49 **15**	7	Red concrete column; 46.	
1228 *M 6989*	-S. breakwater, head.	43° 11.9′ N 141° 01.5′ E	**Fl.(2)G.** period 6s 2 fl. 2s, ec. 4s	46 **14**	8	White round concrete tower; 52.	
1230 *M 6981.4*	-Ishikariwan Ko Range, front.	43° 11.0′ N 141° 17.5′ E	**F.R.**	49 **15**	2	Red beacon, white bands, red triangular daymark point up; 32.	

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			JAPAN-HOKKAIDO-WEST AND NORTH COASTS				
1231 *M 6981.41*	--Rear, 167°42′ from front.	43° 11.0′ N 141° 17.5′ E	**F.R.**	66 **20**	2	Red beacon, white bands, red triangular daymark point up; 46.	
1231.2 *M 6981.2*	-Outer breakwater.	43° 13.7′ N 141° 17.4′ E	**Fl.(2)R.** period 6s	52 **16**	7	Red tower; 46.	
	ISHIKARI GAWA:						
1231.5 *M 6979*	-Approach.	43° 16.6′ N 141° 14.3′ E	**Mo.(A)W.** period 8s	36 **11**	5	SAFE WATER RW, beacon, topmark.	**Radar reflector.**
1232 *M 6980*	-Ishikari, W. side of entrance to river.	43° 15.4′ N 141° 21.6′ E	**Fl.W.** period 20s	56 **17**	13	White round metal tower, red bands; 46.	Visible 043°-223°.
1240 *M 6975.5*	Atsuta Ko, W. breakwater, head.	43° 23.9′ N 141° 25.7′ E	**Fl.G.** period 3s	42 **13**	7	White round concrete tower; 32.	
1244 *M 6974.4*	Hamamasu, W. breakwater.	43° 36.2′ N 141° 22.9′ E	**Fl.R.** period 3s	39 **12**	5	Red tower; 36.	
1248 *M 6974*	-N. breakwater.	43° 36.2′ N 141° 22.8′ E	**F.Fl.G.** period 6s	46 **14**	F. 2 Fl. 5	White round concrete tower; 33.	
1252 *M 6973.5*	**Isikari Wan.**	43° 38.1′ N 141° 21.1′ E	**Fl.W.** period 10s	200 **61**	**20**	White tower, red bands; 82.	Visible 358°-167°.
1256 *M 6972.2*	Ohuyu Ko, N. breakwater.	43° 51.3′ N 141° 32.0′ E	**Iso.G.** period 4s	36 **11**	11	White round concrete structure; 36.	
1258 *M 6972.4*	Betukari Ko.	43° 50.1′ N 141° 28.6′ E	**Fl.R.** period 4s fl. 1s, ec. 3s	46 **14**	3	Red tower; 36.	
1260 *M 6970*	**Mashike Ko.**	43° 51.4′ N 141° 31.5′ E	**Al.Fl.W.R.** period 16s	150 **46**	W. **18** R. **17**	White square concrete tower, black band; 43.	Visible 068°-287°.
1268 *M 6972*	-N. breakwater, head.	43° 51.5′ N 141° 32.2′ E	**Fl.(2)R.** period 6s	46 **14**	5	Red round concrete tower; 32.	
	RUMOI KO:						
1272 *M 6960.6*	**-Rumoi.**	43° 57.4′ N 141° 38.5′ E	**Fl.W.** period 8s	190 **58**	**20**	White round concrete tower, red bands; 56.	Visible 016°-181°.
1276 *M 6961*	-S. breakwater, head.	43° 57.8′ N 141° 37.8′ E	**Fl.R.** period 3s	52 **16**	4	Red tower; 46.	
1280 *M 6960.8*	-W. breakwater, head.	43° 57.8′ N 141° 37.4′ E	**Fl.(2)G.** period 6s	49 **15**	7	White concrete column; 52.	
1284 *M 6962*	-N. breakwater, head.	43° 57.5′ N 141° 38.2′ E	**Fl.G.** period 3s	39 **12**	4	White tower; 36.	
1296 *M 6959*	Obira, detached breakwater.	44° 00.0′ N 141° 39.0′ E	**Iso.R.** period 6s	33 **10**	5	Red tower; 30.	F.W. auxiliary light illuminates beacon on reef about 275 meters N.
1300 *M 6958*	Onishika Ko, W. breakwater, head.	44° 09.5′ N 141° 39.2′ E	**Fl.R.** period 4s	43 **13**	7	Red round concrete tower; 32.	
1304 *M 6957*	Rikibiru Ko, S. breakwater.	44° 13.5′ N 141° 39.2′ E	**Fl.R.** period 5s	36 **11**	5	Red round concrete tower; 36.	
	TOMMAE KO:						
1308 *M 6954*	-N. breakwater, head.	44° 19.2′ N 141° 39.2′ E	**Fl.R.** period 3s		4	Red round concrete tower.	F.W. shown near extremity of point.
1312 *M 6953*	-E. Breakwater, head.	44° 19.0′ N 141° 39.2′ E	**Fl.G.** period 3s	36 **11**	3	White tower; 16.	
1316 *M 6955*	-Tomamae.	44° 19.2′ N 141° 39.0′ E	**Fl.W.** period 5s	223 **68**	12	White round concrete tower; 33.	

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			JAPAN-HOKKAIDO-WEST AND NORTH COASTS				
1320 *M 6954.4*	-Haboro Ko, W. breakwater, head.	44° 22.6′ N 141° 41.7′ E	**Fl.R.** period 4s	45 **14**	7	Red tower; 33.	
1324 *M 6944*	**Yakishiri Jima.**	44° 25.5′ N 141° 25.9′ E	**Fl.(4)W.** period 30s 4 fl. 15s, ec. 15s	167 **51**	**19**	White tower; 43.	Visible 182°-090°, obscured 182°-192° when within 7M.
			F.W.				Illuminates beacon on Kamoi Iwa rock.
1328 *M 6946*	--Breakwater.	44° 26.4′ N 141° 25.9′ E	**Fl.(2)R.** period 8s	43 **13**	5	Red round concrete tower; 32.	
1330 *M 6945*	--Nisiura Ko, breakwater.	44° 26.5′ N 141° 24.0′ E	**Fl.R.** period 3s	33 **10**	5	Red round concrete tower; 32.	
1332 *M 6941*	Akaiwa Saki.	44° 24.9′ N 141° 17.7′ E	**Fl.(2)W.** period 7s 2 fl. 1.5s, ec. 5.5s	450 **137**	7	White round concrete tower; 31.	
1336 *M 6939*	**Teuri To.**	44° 26.1′ N 141° 19.6′ E	**Fl.W.** period 10s	249 **76**	**20**	White round concrete tower, red bands; 49.	
1344 *M 6942.6*	-N. breakwater, head.	44° 26.4′ N 141° 19.8′ E	**Fl.R.** period 4s	49 **15**	5	Red tower; 36.	
1348 *M 6942.8*	-S. breakwater, head.	44° 26.3′ N 141° 19.8′ E	**Fl.G.** period 4s	36 **11**	3	White round concrete tower; 36.	
1350 *M 6941.5*	Maehama Ko.	44° 25.6′ N 141° 20.1′ E	**Fl.G.** period 3s	39 **12**	3	White tower; 28.	
1352 *M 6942*	-Gome Iwa.	44° 26.7′ N 141° 19.7′ E	**Q.(3)W.** period 10s	36 **11**	7	E. CARDINAL BYB, beacon, topmark; 36.	
1356 *M 6934.5*	Konpira Misaki, S.	44° 32.1′ N 141° 45.7′ E	**Fl.(2)R.** period 6s 2 fl. 2.5s, ec. 3.5s	39 **12**	3	Red tower; 32.	
1364 *M 6935*	Konpira Misaki.	44° 33.8′ N 141° 46.4′ E	**Fl.W.** period 4s	181 **55**	12	White tower, red bands; 39.	Visible 004°-246°.
1367 *M 6934.1*	Teshio Ko.	44° 52.2′ N 141° 44.1′ E	**Fl.G.** period 3s	33 **10**	4	White tower; 18.	
1368.5 *M 6932*	Wakasakanai Ko.	45° 04.9′ N 141° 37.8′ E	**Fl.R.** period 3s	31 **10**	3	Red tower; 16.	
	RISHIRI SHIMA:						
1372 *M 6915*	**-Oshidomari.**	45° 14.5′ N 141° 14.1′ E	**Fl.W.** period 15s	249 **76**	**22**	White tower; 31.	Visible 105°-020°. Obscured locally.
1378 *M 6917*	--Osidomari ko, entrance.	45° 14.5′ N 141° 14.1′ E	**Fl.(2)R.** period 6s	49 **15**	5	Red tower; 36.	
1380 *M 6928*	**-Ishizaki.**	45° 08.6′ N 141° 19.7′ E	**Al.Fl.W.R.** period 20s	114 **35**	**17**	White round concrete tower, red bands; 105.	
1384 *M 6930*	-Oniwaki Ko, S. breakwater, head.	45° 08.1′ N 141° 18.8′ E	**Fl.G.** period 4s	29 **9**	4	White tower; 28.	
1388 *M 6927*	-Senhoshi Saki.	45° 05.6′ N 141° 14.5′ E	**Fl.W.** period 5s	95 **29**	12	Round tower, white bands; 43.	
1392 *M 6926*	-Senposhi Ko, S. breakwater.	45° 06.6′ N 141° 12.5′ E	**Iso.G.** period 6s	43 **13**	5	White round concrete tower; 36.	
1396 *M 6925*	--E. breakwater, head.	45° 06.5′ N 141° 12.7′ E	**Iso.R.** period 6s	43 **13**	5	Red round concrete tower; 36.	
1400 *M 6924*	-Kutsugata Saki.	45° 10.9′ N 141° 08.3′ E	**Iso.W.** period 6s	78 **24**	14	White tower, red band; 39.	
1404 *M 6923.6*	-Kutsugata Ko, W. breakwater, head.	45° 11.0′ N 141° 08.0′ E	**Fl.R.** period 3s	39 **12**	3	Red tower; 36.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			JAPAN-HOKKAIDO-WEST AND NORTH COASTS				
1408 *M 6923*	-Outer breakwater, head.	45° 11.5′ N 141° 07.8′ E	**Fl.(2)R.** period 6s	52 **16**	4	Red round concrete tower; 36.	
1412 *M 6922.4*	-Shiminato Ko, S. breakwater, head.	45° 12.3′ N 141° 08.3′ E	**Iso.R.** period 6s	43 **13**	4	Red round concrete tower; 36.	
1416 *M 6922*	-Sakaehama Saki.	45° 12.8′ N 141° 08.0′ E	**Fl.(3)W.** period 13s	59 **18**	13	White round concrete tower, red bands; 36.	
1420 *M 6919*	-Motodomari Ko, N. breakwater, head.	45° 15.2′ N 141° 11.2′ E	**Fl.G.** period 3s	39 **12**	5	White round concrete column; 36.	
1424 *M 6909*	Hunbe.	45° 16.3′ N 141° 02.8′ E	**Oc.W.** period 8s	151 **46**	14	White tower, red bands; 39.	
1428 *M 6908*	**Mototi.**	45° 16.7′ N 141° 01.1′ E	**Fl.W.** period 10s	692 **211**	**20**	White octagonal concrete tower, black band; 31.	
1432 *M 6908.4*	Mototi Ko, breakwater.	45° 18.3′ N 141° 01.2′ E	**Fl.(2)R.** period 6s	46 **14**	5	Red round concrete tower; 36.	
1433 *M 6914*	Teppu Gyoko, breakwater.	45° 25.2′ N 140° 59.3′ E	**Fl.R.** period 3s	39 **12**	5	Red tower; 33.	
1436 *M 6910*	Kaishomai.	45° 18.1′ N 141° 02.8′ E	**Fl.W.** period 4s	157 **48**	12	White round concrete tower; 26.	
1440 *M 6910.7*	Kahuka Ko, N. breakwater, head.	45° 18.1′ N 141° 03.2′ E	**Fl.R.** period 3s	46 **14**	5	Red round concrete tower; 36.	
1444.5 *M 6910.5*	-E. breakwater, head.	45° 17.8′ N 141° 03.1′ E	**Fl.(2)R.** period 6s	39 **12**	4	Red tower; 31.	
1448 *M 6911*	Kahukai Ko, S. breakwater.	45° 24.4′ N 141° 03.7′ E	**Fl.G.** period 3s	36 **11**	3	White tower; 28.	
1452 *M 6913*	Todo Shima.	45° 28.4′ N 140° 58.1′ E	**Fl.W.** period 3s	174 **53**	7	White tower, black bands; 39.	
1460 *M 6912*	Kanedano Misaki.	45° 27.6′ N 141° 02.3′ E	**Fl.(2)W.** period 8s 2 fl. 3s, ec. 5s	89 **27**	12	White tower, red bands; 39.	
1462 *M 6913.5*	Hamanaka Ko.	45° 26.3′ N 140° 59.6′ E	**Fl.(2)R.** period 6s	36 **11**	3	Red tower; 27.	
1464 *M 6912.4*	Sukoton Ko, N. breakwater.	45° 27.4′ N 140° 58.7′ E	**Fl.R.** period 4s	43 **13**	3	Red round concrete tower; 33.	
1466 *M 6911.2*	Nairo Ko, breakwater.	45° 23.3′ N 141° 03.4′ E	**Fl.R.** period 5s	39 **12**	3	Red tower; 32.	
1472 *M 6907*	Bakkai Ko, W. breakwater.	45° 18.6′ N 141° 36.4′ E	**Fl.G.** period 3s	49 **15**	8	White tower; 36.	
1474 *M 6906*	Toyohama.	45° 23.4′ N 141° 38.2′ E	**Fl.(2)G.** period 8s	24 **7**	3	White tower; 16.	
	WAKKANAI KO:						
1476 *M 6901*	**-Noshappu Misaki.**	45° 26.7′ N 141° 38.9′ E	**Fl.(2)W.** period 20s 2 fl. 6s, ec. 14s	138 **42**	**18**	Red round concrete tower, white bands; 140.	Visible 006°-315°.
1480 *M 6905.2*	--SW. of Noshappu Misaki.	45° 26.8′ N 141° 38.5′ E	**F.Fl.G.** period 3s	39 **12**	F. 2 Fl. 5	White tower; 32.	
1484 *M 6902*	-N. breakwater, head.	45° 24.9′ N 141° 41.8′ E	**Iso.R.** period 6s	49 **15**	5	Red tower; 46.	
1486 *M 6904*	-E. breakwater, W. head.	45° 24.7′ N 141° 41.9′ E	**Fl.G.** period 3s	42 **13**	3	White tower; 36.	
1486.5 *M 6905*	--E. head.	45° 24.6′ N 141° 42.7′ E	**Fl.R.** period 3s	39 **12**	5	Red tower; 33.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			JAPAN-HOKKAIDO-WEST AND NORTH COASTS				
1487 *M 6901.2*	-Outer breakwater, E. head.	45° 25.1′ N 141° 42.3′ E	**Fl.(2)R.** period 6s	46 **14**	5	Red round concrete tower; 43.	
1488 *M 6902.4*	-Hokuyo Wharf, N. breakwater, head.	45° 24.7′ N 141° 41.2′ E	**Fl.(2)G.** period 6s	36 **11**	3	White round concrete tower; 30.	
1492 *M 6903.4*	-N. breakwater wharf, head.	45° 24.7′ N 141° 40.8′ E	**Fl.R.** period 5s	36 **11**	4	Red round concrete tower; 30.	
1508 *M 6900*	Koetoi Saki Offing.	45° 25.6′ N 141° 44.9′ E	**Q.W.**	39 **12**	8	N. CARDINAL BY, beacon, topmark; 39.	
1510 *M 6900.5*	-W. breakwater, head.	45° 24.7′ N 141° 45.3′ E	**Fl.G.** period 6s	25 **8**	5	White tower; 16.	
1512 *M 6899*	-AVIATION LIGHT.	45° 24.3′ N 141° 48.1′ E	**Al.Fl.W.G.** period 4.3s		W. 3 G. 1		
1516 *M 6898*	Tomiiso Ko, W. breakwater.	45° 27.7′ N 141° 52.5′ E	**F.Fl.G.** period 6s	43 **13**	F. 1 Fl. 3	White round concrete tower; 33.	
1520 *M 6897.6*	Soya Gyoka, W. breakwater.	45° 29.1′ N 141° 52.6′ E	**Iso.G.** period 4s	43 **13**	4	White tower; 36.	
1522 *M 6897.4*	Saya Gyoko.	45° 30.8′ N 141° 53.8′ E	**Fl.R.** period 3s	43 **13**	3	Red tower; 36.	
1524 *M 6896*	**Soya Misaki.**	45° 31.3′ N 141° 56.2′ E	**Fl.(4)W.** period 30s 4 fl. 15s, ec. 15s	131 **40**	**17**	Red square concrete tower, white bands; 56.	Visible 077°-286°. **Horn:** 1 bl. ev. 20s (bl. 5s, si. 15s). **DGPS Station.**
	RAMARK						
1532 *M 6897*	-Outer N. breakwater.	45° 31.2′ N 141° 56.9′ E	**Iso.R.** period 4s	46 **14**	5	Red round concrete tower; 36.	
1536 *M 6896.5*	Tsuetomanai Point.	45° 25.4′ N 142° 02.2′ E	**Fl.R.** period 3s	46 **14**	5	Red tower; 36.	

Section 2

Northwest Coast of Honshu

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			JAPAN-HONSHU-NORTHWEST COAST				
1540 *M 5330*	Kurumi Se.	34° 02.4′ N 130° 53.6′ E	**Fl.(2)W.** period 5s	39 **12**	3	ISOLATED DANGER BRB, tower, topmark; 36.	
1544 *M 5329*	Yoshimi Ko, N. breakwater.	34° 04.0′ N 130° 54.0′ E	**Fl.G.** period 3s	23 **7**	4	White tower; 18.	
1548 *M 5322*	**-Hutaoi Sima.**	34° 05.9′ N 130° 47.0′ E	**Fl.(3)W.** period 30s	340 **104**	**22**	White tower; 49.	Visible 296°-140° and 246°-286°.
1550 *M 5323*	--S. side, about 590 meters E. Kenega Saki.	34° 05.9′ N 130° 47.4′ E	**Iso.G.** period 6s	36 **11**	4	White tower; 19.	
1552 *M 7402*	Kogushi Ko Kawatana, breakwater.	34° 09.6′ N 130° 54.7′ E	**Fl.(2)R.** period 6s	39 **12**	5	Red round concrete tower; 31.	
1556 *M 7401*	Kogusi, Ko, S. breakwater.	34° 10.6′ N 130° 55.6′ E	**Fl.G.** period 3s	30 **9**	5	White tower; 18.	
1560 *M 7400*	Yatama Ko A, breakwater.	34° 16.3′ N 130° 53.2′ E	**Fl.(2)G.** period 6s	43 **13**	3	White tower; 33.	
1564 *M 7399*	Kottoi.	34° 19.1′ N 130° 53.5′ E	**Oc.W.R.** period 8s lt. 6s, ec. 2s	89 **27**	14	White tower; 21.	R. 035°-095°, W.-104°, R.-170°. F.W. illuminates shoal 160 meters WSW.
1566 *M 7399.5*	Kottoi Ko, breakwater.	34° 18.8′ N 130° 53.3′ E	**Fl.R.** period 3s	42 **13**	3	Red tower; 31.	
1566.1 *M 7399.2*	-Middle point.	34° 19.1′ N 130° 53.5′ E	**Fl.(2)R.** period 6s	30 **9**	4	Red tower; 18.	
1568 *M 7397*	**Tsuno Shima.**	34° 21.2′ N 130° 50.5′ E	**Fl.W.** period 5s	148 **45**	**18**	Tower; 99.	Visible 352°-232°. Storm signals. F.W. illuminates Kuzu Se about 1.1 km. NNW.
1570 *M 7397.5*	Tsunoshima Ko, breakwater.	34° 20.8′ N 130° 51.4′ E	**Fl.G.** period 3s	30 **9**	3	White tower; 18.	
1572	-Tsuno Shima.	34° 21.9′ N 130° 52.6′ E	**F.W.**	197 **60**		White square concrete tower; 43.	Two spotlights.
1576 *M 7395.4*	Yuya Ka Agawa, breakwater, head.	34° 20.8′ N 130° 55.7′ E	**Fl.G.** period 3s	33 **10**	3	White round concrete tower, square base; 28.	
1580 *M 7395.6*	Awano, breakwater, head.	34° 21.9′ N 130° 58.5′ E	**Fl.G.** period 3s	39 **12**	4	White round tower; 33.	
1584 *M 7396*	Nagato I Se.	34° 21.7′ N 130° 53.5′ E	**Fl.W.** period 3s	59 **18**	3	White tower; 43.	
1588 *M 7395.8*	-Kakehuti, W. breakwater, head.	34° 22.7′ N 131° 02.0′ E	**Fl.(2)G.** period 6s	36 **11**	5	White tower; 32.	
1592 *M 7395*	Kuzu Ko, breakwater.	34° 24.3′ N 130° 58.3′ E	**Fl.R.** period 3s	23 **7**	3	Red round concrete tower; 16.	
1594 *M 7395.2*	Oura Gyoko.	34° 24.3′ N 130° 57.4′ E	**Iso.R.** period 4s	26 **8**	5	Red tower; 18.	
1596 *M 7394.2*	-Yuya Ko.	34° 23.4′ N 130° 56.5′ E	**F.W.**	312 **95**		White tower; 36.	Illuminates beacon on Funase 850 meters SSW.
1600 *M 7394*	Yuya Wan.	34° 23.6′ N 130° 56.0′ E	**Oc.(2)W.** period 12s	131 **40**	5	White tower; 33.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
	KUZU KO:						
1604 *M 7392*	-Nagato Kawajiri.	34° 26.5′ N 130° 58.4′ E	**Iso.W.** period 6s	230 **70**	5	White tower; 27.	
1612 *M 7391*	-No 2 breakwater.	34° 25.3′ N 131° 00.4′ E	**Fl.G.** period 3s	36 **11**	5	White tower; 28.	
1616 *M 7390.5*	Kawaziri, breakwater.	34° 25.3′ N 131° 00.3′ E	**Fl.R.** period 3s	56 **17**	3	Red round concrete structure; 32.	
1620 *M 7388*	Ima Misaki.	34° 25.0′ N 131° 07.9′ E	**Fl.(2)W.** period 10s	246 **75**	12	White round concrete tower; 22.	
1624 *M 7389.5*	Kiwada Ko, N. breakwater, head.	34° 23.6′ N 131° 08.4′ E	**Fl.(2)R.** period 6s	46 **14**	3	Red tower; 28.	
1628 *M 7377*	Ushiobata Hana.	34° 26.2′ N 131° 15.2′ E	**Iso.W.** period 8s	341 **104**	5	White round tower; 30.	
1632 *M 7378*	Hagi Ai Shima.	34° 31.0′ N 131° 16.6′ E	**Fl.(2)W.** period 6s	184 **56**	12	White round concrete tower; 36.	Visible 028°-287°.
1634 *M 7378.2*	-S. end.	34° 30.0′ N 131° 16.9′ E	**Fl.R.** period 3s	32 **10**	3	Red tower; 18.	
1636 *M 7379*	O Shima.	34° 25.1′ N 131° 16.0′ E	**Fl.W.** period 5s	56 **17**	5	White tower; 22.	
1640 *M 7378.6*	Kayoi Ko, N. breakwater, head.	34° 25.3′ N 131° 15.1′ E	**Iso.G.** period 4s	26 **8**	4	White tower; 19.	
1644 *M 7378.8*	Kayoi Ko Tanoura, breakwater.	34° 25.5′ N 131° 14.9′ E	**Fl.R.** period 3s	39 **12**	3	Red tower; 31.	
1648 *M 7378.9*	Ohibi, breakwater.	34° 24.7′ N 131° 12.6′ E	**Fl.G.** period 5s	25 **8**	5	White tower; 19.	
1652 *M 7382*	Senzaki Ko Benten Shima, N. breakwater.	34° 23.8′ N 131° 12.2′ E	**Iso.G.** period 4s	26 **8**	4	White concrete column; 24.	
1656 *M 7381.8*	-No 1 breakwater, head.	34° 23.8′ N 131° 12.4′ E	**F.Fl.G.** period 4s	36 **11**	F. 5 Fl. 9	White tower; 31.	
1660 *M 7381.9*	-No 2 breakwater, head.	34° 23.3′ N 131° 12.5′ E	**Fl.R.** period 3s	39 **12**	3	Red tower; 31.	
1664 *M 7382.2*	-S. breakwater, head.	34° 23.5′ N 131° 12.4′ E	**Fl.G.** period 3s	39 **12**	3	White tower; 31.	
1668 *M 7384*	-Ozi Hana.	34° 23.9′ N 131° 11.8′ E	**Fl.(2)W.** period 6s	24 **7**	5	White tower; 19.	
1672 *M 7389*	-Nagato Minato Ko, breakwater, head.	34° 22.8′ N 131° 10.8′ E	**Fl.R.** period 4s	39 **12**	5	Red tower; 28.	
1680 *M 7386*	Nobase Ko, W. breakwater.	34° 23.0′ N 131° 15.0′ E	**Iso.R.** period 6s	25 **8**	5	Red tower; 19.	
1684 *M 7380*	Sanmi Ko, W. breakwater.	34° 23.8′ N 131° 19.6′ E	**Iso.G.** period 6s	36 **11**	4	White tower; 28.	
1688 *M 7365*	Tamae Ko.	34° 24.9′ N 131° 22.3′ E	**Fl.(2)R.** period 8s	49 **15**	5	Red round concrete tower; 31.	Auxiliary F.W. light illuminates N. head of breakwater about 80 meters ENE.
1692 *M 7361*	Toraga Saki.	34° 27.6′ N 131° 23.8′ E	**Fl.W.** period 4s	49 **15**	12	White round concrete tower; 32.	
	HAGI KO:						
1696 *M 7362*	-Kistsune Shima, N. side.	34° 26.4′ N 131° 24.8′ E	**Oc.W.R.** period 8s lt. 6s, ec. 2s	69 **21**	13	White tower; 39.	R. 092°-116°, W.-092°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			JAPAN-HONSHU-NORTHWEST COAST				
1700	-Fishery Harbor, E. breakwater.	34° 25.7′ N 131° 24.7′ E	**F.Fl.G.** period 5s	36 **11**	F. 5 Fl. 11	White round tower, quadrangular base; 28.	
1704 *M 7363.6*	--W. breakwater.	34° 25.9′ N 131° 24.5′ E	**Fl.(2)R.** period 6s	26 **8**	3	Red tower; 16.	
1708 *M 7363.8*	-Hamasaki, breakwater.	34° 25.3′ N 131° 24.1′ E	**Iso.R.** period 8s	36 **11**	4	Red round metal tower; 26.	
1712 *M 7363.7*	-N. breakwater, N. head.	34° 25.5′ N 131° 23.9′ E	**Fl.R.** period 3s	33 **10**	3	Red tower; 19.	
1716 *M 7364*	-Tsurenodai.	34° 25.4′ N 131° 24.1′ E	**Fl.G.** period 3s	24 **7**	3	White tower; 16.	
1720 *M 7361.4*	Yunagi, beakwater.	34° 26.7′ N 131° 24.7′ E	**Fl.R.** period 3s	43 **13**	3	Red tower; 31.	
1722 *M 7362.5*	-Breakwater.	34° 26.2′ N 131° 24.8′ E	**Iso.R.** period 4s	39 **12**	4	Red tower; 28.	
1723 *M 7364.5*	Tsuba Se.	34° 26.1′ N 131° 21.1′ E	**Fl.(2)W.** period 5s	16 **5**	3	ISOLATED DANGER BRB, beacon, topmark; 20.	
1724 *M 7360.8*	Oi Ko, breakwater.	34° 28.6′ N 131° 26.6′ E	**Fl.R.** period 4s	36 **11**	4	Red tower; 28.	
1726 *M 7361.2*	Hagi Gyoko.	34° 27.0′ N 131° 24.9′ E	**Fl.(2)R.** period 6s	46 **14**	3	Red tower; 31.	
1728 *M 7360.9*	Akabose, breakwater, head.	34° 29.4′ N 131° 24.7′ E	**Iso.R.** period 8s	22 **7**	5	Red tower; 19.	
1730 *M 7360.85*	Uyama Misaki.	34° 28.5′ N 131° 26.0′ E	**Fl.R.** period 5s	23 **7**	3	STARBOARD (B) R, tower, topmark; 22.	
1732 *M 7360.7*	Nago Ko, breakwater.	34° 29.8′ N 131° 28.0′ E	**Fl.R.** period 3s	26 **8**	3	Red tower; 16.	
1736 *M 7360.6*	Ohira Se.	34° 31.5′ N 131° 27.4′ E	**Iso.W.** period 6s	463 **141**	5	White tower; 30.	
1740 *M 7360.5*	Udago Kolmaura, breakwater, head.	34° 33.9′ N 131° 32.3′ E	**Fl.G.** period 3s	42 **13**	3	White tower; 32.	
	MI SHIMA:						
1748 *M 7370*	-Mi Shima.	34° 45.6′ N 131° 08.9′ E	**Fl.W.** period 4s	266 **81**	12	White round concrete tower; 46.	
1754 *M 7372.4*	-E. breakwater, head.	34° 45.3′ N 131° 09.2′ E	**Fl.(2)G.** period 8s	56 **17**	3	White tower; 33.	
1758 *M 7374*	-W. breakwater.	34° 45.6′ N 131° 09.4′ E	**Fl.R.** period 4s	46 **14**	3	Red tower; 33.	
1760 *M 7369.6*	-Utu Oware, breakwater.	34° 47.1′ N 131° 09.0′ E	**Fl.(2)R.** period 6s	46 **14**	3	Red tower; 29.	
1764 *M 7368*	-N. end.	34° 47.9′ N 131° 07.9′ E	**Fl.(2)W.** period 6s	187 **57**	12	White square tower; 46.	Visible 022°-307°.
1776 *M 7360.4*	-N. breakwater.	34° 37.4′ N 131° 35.9′ E	**Iso.R.** period 4s	27 **8**	4	Red tower; 19.	
1780 *M 7360*	Susa Ko, on Tenjin Shima.	34° 37.8′ N 131° 34.9′ E	**Fl.W.** period 3s	171 **52**	3	White tower; 25.	
1784 *M 7359*	**Koyama Misaki.**	34° 39.9′ N 131° 36.8′ E	**Fl.W.** period 15s	305 **93**	**17**	White tower; 39.	Visible 060°-257°.
1788 *M 7358*	Esaki Ko, Ryuzin Saki.	34° 39.2′ N 131° 38.7′ E	**Fl.W.** period 3s	36 **11**	5	White tower; 26.	
1792 *M 7358.4*	-Range, front.	34° 38.7′ N 131° 38.4′ E	**F.G.**	19 **6**	8	Tower, white chevron daymark point up; 16.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			JAPAN-HONSHU-NORTHWEST COAST				
1796 *M 7358.41*	--Rear, 202° from front.	34° 38.7′ N 131° 38.4′ E	**F.G.**	33 **10**	8	Tower, white chevron daymark point up; 32.	
1800 *M 7357*	Iinoura Ko, N. breakwater.	34° 40.5′ N 131° 42.1′ E	**F.Fl.(2)R.** period 10s	49 **15**	F. 2 Fl. 5	Red tower; 31.	
1804 *M 7352.4*	Taka Shima.	34° 50.1′ N 131° 50.2′ E	**Fl.W.** period 8s	413 **126**	12	White tower; 49.	
1808 *M 7355*	Iwami Ohama Ko, N. breakwater.	34° 44.6′ N 131° 52.1′ E	**Fl.R.** period 3s	31 **9**	5	Red tower; 18.	
1812 *M 7354*	Uomachino Hana.	34° 45.3′ N 131° 51.9′ E	**Iso.W.** period 6s	112 **34**	14	White tower; 36.	
1816 *M 7353*	Sutsu Ko Oki, breakwater.	34° 46.6′ N 131° 54.8′ E	**F.Fl.R.** period 6s	39 **12**	F. 2 Fl. 5	Red tower; 31.	
1820 *M 7351.5*	Hamada Ko, N.	34° 51.5′ N 132° 00.8′ E	**Iso.G.** period 4s	43 **13**	9	White round concrete tower; 31.	
1824 *M 7348*	**Uma Shima.**	34° 54.2′ N 132° 02.7′ E	**Al.Fl.W.G.** period 12s	112 **34**	W. **16** G. **15**	White round brick tower; 31.	Visible 357°-229°. Auxiliary F.W. shows only over Koise Shima.
1828 *M 7349*	Shakkuri, Hamada Ko.	34° 53.4′ N 132° 02.4′ E	**Fl.(2)W.** period 5s	59 **18**	3	ISOLATED DANGER BRB, beacon, topmark; 52.	
1832 *M 7349.15*	-Breakwater, head.	34° 53.7′ N 132° 03.3′ E	**Fl.(2)G.** period 6s	46 **14**	3	White round concrete tower; 31.	
1838 *M 7349.3*	-W. Offing breakwater, head.	34° 53.6′ N 132° 03.4′ E	**F.Fl.(2)R.** period 6s	43 **13**	F. 3 Fl. 7	Red tower; 28.	
1840 *M 7349.2*	-Breakwater, head.	34° 53.5′ N 132° 02.6′ E	**Fl.R.** period 4s	46 **14**	3	Red tower; 31.	
1844 *M 7348.5*	Hamada Ko.	34° 53.7′ N 132° 03.5′ E	**Iso.G.** period 6s	46 **14**	10	White round concrete tower; 31.	F.W. illuminates danger 120 meters WSW.
1848 *M 7351*	-W. breakwater, head.	34° 52.7′ N 132° 02.9′ E	**Iso.R.** period 4s	43 **13**	4	Red tower; 31.	
1852 *M 7347.4*	Togane Ko, S. breakwater.	34° 56.4′ N 132° 06.4′ E	**F.Fl.R.** period 6s	39 **12**	F. 2 Fl. 5	Red tower; 30.	
1856 *M 7347*	**Iwami Osaki Hana.**	34° 58.5′ N 132° 09.1′ E	**Fl.W.** period 10s	236 **72**	**20**	White round concrete tower; 52.	Visible 054°-226°.
1860 *M 7346.5*	Gosu.	35° 01.9′ N 132° 14.1′ E	**Iso.W.** period 6s	213 **65**	14	White round concrete tower; 33.	F.W. at Waki 2M SW. Spotlight illuminates training wall head, 78 meters WSW.
1864 *M 7346.4*	Kuromatsu Ko, breakwater.	35° 03.7′ N 132° 18.7′ E	**F.Fl.G.** period 3s	46 **14**	F. 2 Fl. 5	White round concrete tower; 30.	
1868 *M 7346*	Yunotsu Ko.	35° 05.9′ N 132° 20.3′ E	**Fl.W.R.** period 2s	223 **68**	13	White round concrete tower; 33.	R. 129°-181°, W.-129°.
1872 *M 7346.2*	-E. breakwater.	35° 05.7′ N 132° 20.3′ E	**F.Fl.G.** period 6s	39 **12**	F. 3 Fl. 7	White tower; 28.	
1876 *M 7345*	Nima Ko, offing breakwater.	35° 09.6′ N 132° 23.8′ E	**Fl.R.** period 3s	46 **14**	7	Red concrete tower; 28.	
1884 *M 7343.6*	Takuno Ko, W. breakwater.	35° 10.0′ N 132° 24.0′ E	**Fl.R.** period 3s	46 **14**	3	Red tower; 31.	
1888 *M 7342*	**O Misaki.**	35° 11.3′ N 132° 25.1′ E	**Fl.W.** period 6s	226 **69**	**20**	White tower; 46.	
1892 *M 7343*	-Isotake Ko Kagami-ga Hana, breakwater.	35° 11.1′ N 132° 25.0′ E	**F.Fl.R.** period 4s	46 **14**	F. 2 Fl. 5	White round concrete tower; 30.	
1900 *M 7341.4*	Wae Ko, offing breakwater.	35° 12.9′ N 132° 28.0′ E	**Iso.G.** period 4s	49 **15**	5	White tower; 28.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			JAPAN-HONSHU-NORTHWEST COAST				
1904 *M 7341*	Kute Ko, W. breakwater.	35° 13.9′ N 132° 30.0′ E	**F.Fl.R.** period 4s	39 **12**	F. 5 Fl. 8	Red round concrete tower; 31.	
1912 *M 7341.2*	-N. breakwater.	35° 13.7′ N 132° 30.2′ E	**Fl.G.** period 3s	43 **13**	5	White round concrete tower; 28.	
1916 *M 7338*	-Tategami Hana.	35° 14.8′ N 132° 31.6′ E	**Fl.(4)W.** period 15s	276 **84**	12	White round concrete tower; 33.	
1920 *M 7339*	Hane Higasi Ko, S. breakwater.	35° 14.7′ N 132° 31.6′ E	**Iso.R.** period 4s	36 **11**	5	Red tower; 30.	
1922 *M 7337.6*	Oda Ko.	35° 16.7′ N 132° 36.1′ E	**Fl.R.** period 3s	28 **9**	4	Red tower; 19.	
	TAISHA KO:						
1924 *M 7336*	-W. jetty, head.	35° 24.1′ N 132° 39.8′ E	**Iso.G.** period 4s	27 **8**	4	White tower; 18.	
1928 *M 7336.4*	-E. breakwater, head.	35° 24.0′ N 132° 39.9′ E	**Fl.R.** period 4s	43 **13**	5	Red concrete column; 27.	
1932 *M 7337*	-Outer breakwater, S. head.	35° 24.0′ N 132° 39.8′ E	**Fl.G.** period 4s	43 **13**	7	White tower; 32.	
1936 *M 7334*	**Hino Misaki.**	35° 26.0′ N 132° 37.7′ E	**Al.Fl.(2+1)W.R.** period 20s	207 **63**	**21**	White round stone tower; 145.	Visible 024°-245°. F.W. close NE. illuminates Saka Guri to N.
1940 *M 7335*	Uryo Ko, breakwater.	35° 26.0′ N 132° 38.4′ E	**Oc.G.** period 4s lt. 3s, ec. 1s	39 **12**	4	White round concrete tower; 31.	F.W. illuminates danger 150 meters NE.
1944 *M 7333.5*	Sagiura.	35° 26.8′ N 132° 40.7′ E	**Fl.W.** period 4s	194 **59**	7	White round concrete tower; 43.	
1948 *M 7333.7*	-Breakwater.	35° 26.5′ N 132° 41.2′ E	**F.Fl.G.** period 3s	39 **12**	F. 2 Fl. 5	White tower; 28.	
1952 *M 7333.2*	-Breakwater, head.	35° 27.4′ N 132° 44.9′ E	**Iso.G.** period 6s	43 **13**	4	White tower; 31.	
1956 *M 7333*	Uppurui Ha.	35° 28.2′ N 132° 43.8′ E	**Fl.(2)W.** period 6s	213 **65**	7	White tower; 21.	
1958 *M 7332*	Siotu Ko.	35° 28.8′ N 132° 46.7′ E	**Fl.(2)R.** period 6s	46 **14**	5	Red tower; 33.	
1960 *M 7331*	Nagaoka Hana.	35° 30.2′ N 132° 49.9′ E	**Fl.W.** period 3s	249 **76**	12	White round concrete tower; 33.	
	ETOMO KO:						
1964 *M 7331.5*	-Koizu Ko, N. breakwater.	35° 30.0′ N 132° 50.0′ E	**Fl.R.** period 3s	39 **12**	5	Red tower; 28.	
1968 *M 7327.5*	-Oki breakwater, head.	35° 31.5′ N 132° 58.0′ E	**F.Fl.G.** period 3s	56 **17**	F. 4 Fl. 7	White tower; 46.	
1971 *M 7327*	-Breakwater.	35° 31.5′ N 132° 58.2′ E	**Fl.G.** period 3s	43 **13**	3	White round concrete tower; 36.	
1972 *M 7328*	-S. breakwater.	35° 31.5′ N 132° 58.3′ E	**F.Fl.R.** period 6s	36 **11**	F. 2 Fl. 5	Red tower; 30.	
1976 *M 7325*	-Etomo.	35° 32.6′ N 132° 58.1′ E	**Fl.(2)W.** period 6s	190 **58**	12	White round concrete tower; 30.	
1980 *M 7325.4*	--E. breakwater, head.	35° 32.5′ N 132° 58.1′ E	**Oc.G.** period 5s lt. 4s, ec. 1s	39 **12**	5	White tower; 31.	F.W. illuminates reef 140 meters N.
1984 *M 7326*	-Kataku, E. breakwater.	35° 32.8′ N 132° 59.1′ E	**F.Fl.G.** period 3s	39 **12**	F. 5 Fl. 11	White round tower; 31.	F.W. illuminates head of W. breakwater.

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			JAPAN-HONSHU-NORTHWEST COAST				
1988 *M 7324.7*	Mizu Ko.	35° 32.5′ N 133° 01.6′ E	**Iso.G.** period 6s	46 **14**	4	White round concrete tower; 31.	
1992 *M 7324.6*	Mizu Ko, W. offing, breakwater.	35° 32.4′ N 133° 01.6′ E	**Iso.R.** period 6s	42 **13**	9	Red round concrete tower; 31.	
1996 *M 7324.5*	Kaga Ko.	35° 34.1′ N 133° 03.3′ E	**Fl.R.** period 3s	43 **13**	3	Red tower; 31.	
2000 *M 7324.4*	Kukedo Hana.	35° 34.6′ N 133° 02.9′ E	**Fl.W.** period 3s	115 **35**	7	White round concrete tower; 33.	
2004 *M 7324*	**Tako Hana.**	35° 36.2′ N 133° 05.4′ E	**Fl.W.** period 10s	371 **113**	**20**	White tower; 23.	Visible 059°-285°.
2006 *M 7318.8*	Zizo Saki, breakwater.	35° 35.2′ N 133° 07.0′ E	**Fl.R.** period 4s	30 **9**	4	Red tower; 22.	
2008 *M 7318.6*	Noi Ko offing, breakwater.	35° 34.9′ N 133° 07.4′ E	**Fl.(2)G.** period 6s	39 **12**	5	White tower; 31.	
2010 *M 7318*	Kasaura Ko.	35° 34.4′ N 133° 08.3′ E	**Fl.G.** period 3s	23 **7**	5	White tower; 18.	
2012 *M 7318.4*	Tunowa Hana.	35° 34.8′ N 133° 08.4′ E	**Oc.(2)W.** period 6s	112 **34**	12	White round concrete tower; 33.	F.W. illuminates islet 250 meters ENE.
2016 *M 7314*	Shichirui Ko.	35° 34.9′ N 133° 14.6′ E	**Fl.(3)W.** period 13s	148 **45**	12	White round concrete tower, red bands; 36.	F.W. illuminates beacon on Fuma Shima 330 meters NE.
2020 *M 7315*	Tsuriboko Yama.	35° 34.4′ N 133° 15.1′ E	**Fl.W.** period 4s	400 **122**	7	White round concrete tower; 23.	
2024 *M 7315.2*	Schichirui Ko, detached breakwater.	35° 34.5′ N 133° 14.1′ E	**Fl.G.** period 5s	36 **11**	5	White round concrete tower, square base; 31.	
2028 *M 7315.4*	Sii Ya, breakwater, head.	35° 34.3′ N 133° 13.9′ E	**Iso.R.** period 4s	33 **10**	5	Red tower; 26.	
	OKI RETTO:						
2032 *M 7321.2*	-Oki Okini Saki, on Saigo Misaki.	36° 21.3′ N 133° 16.6′ E	**Fl.W.** period 5s	269 **82**	5	White round concrete tower; 39.	
2036 *M 7321.25*	**-Oki Syoto.**	36° 20.4′ N 133° 17.0′ E	**Fl.W.** period 15s	846 **258**	**23**	White round concrete tower, square base; 52.	Visible 081°-293°.
	-RAMARK						
2040 *M 7321.16*	-Nakamura Ko, breakwater, head.	36° 19.7′ N 133° 18.9′ E	**Fl.(2)R.** period 6s	49 **15**	7	Red concrete column; 36.	
2044 *M 7321.14*	-Sakiyama Misaki.	36° 17.8′ N 133° 21.6′ E	**Iso.W.** period 6s	308 **94**	12	White tower; 33.	F.W. illuminates rock 700 meters SE.
2046 *M 7321.12*	Huse Ko.	36° 17.5′ N 133° 21.8′ E	**Fl.R.** period 3s	33 **10**	5	Red tower; 21.	
2048 *M 7321.1*	-Kuroshima Saki.	36° 16.2′ N 133° 23.1′ E	**Fl.(3)W.** period 13s	98 **30**	13	White tower; 33.	F.W. illuminates Kabi Sima about 500 meters ENE.
2052 *M 7320.8*	-Ikeziri Saki.	36° 12.4′ N 133° 22.1′ E	**Fl.W.** period 3s	354 **108**	8	White concrete column; 36.	
2056 *M 7320.2*	-Saigo Ko, Hime Sima.	36° 11.8′ N 133° 20.4′ E	**Mo.(A)R.** period 8s	39 **12**	5	STARBOARD (B) R, tower, topmark; 36.	
2060 *M 7320.4*	-Saigo Wan, detached breakwater, E. head.	36° 12.0′ N 133° 20.0′ E	**Fl.G.** period 3s	31 **9**	5	White round concrete tower; 26.	
2064 *M 7320*	**-Shiro Saki,** Dogo, SE. point.	36° 10.3′ N 133° 20.4′ E	**Fl.(2)W.** period 30s	358 **109**	**22**	White square concrete tower; 36.	Visible 173°-082°.
2068 *M 7319.8*	-Imazu Ko, W. breakwater.	36° 10.4′ N 133° 18.5′ E	**Oc.G.** period 4s lt. 3s, ec. 1s	39 **12**	5	White concrete column; 31.	

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			JAPAN-HONSHU-NORTHWEST COAST				
2069 *M 7319.77*	-Siziki Sima, W. breakwater.	36° 10.2′ N 133° 17.0′ E	**Fl.(2)G.** period 6s	26 **8**	3	White round concrete tower; 18.	
2070 *M 7319.75*	-Tudo Ko, breakwater.	36° 09.8′ N 133° 14.7′ E	**Fl.G.** period 3s	26 **8**	4	White tower; 19.	
2072 *M 7319.7*	-Oki Syaguri.	36° 09.6′ N 133° 14.7′ E	**Fl.(2)W.** period 5s	49 **15**	3	ISOLATED DANGER BRB, beacon, topmark; 43.	
2076 *M 7319.5*	-Shijiki Shima.	36° 09.4′ N 133° 14.3′ E	**Fl.W.** period 5s	92 **28**	7	White tower; 46.	
2080 *M 7321.5*	-Tsuma Ko, breakwater.	36° 11.0′ N 133° 14.0′ E	**Fl.G.** period 4s	30 **9**	3	White round concrete tower; 18.	
2082 *M 7321.42*	-Breakwater, head.	36° 12.6′ N 133° 11.8′ E	**Fl.R.** period 5s	26 **8**	3	Red tower; 18.	
2084 *M 7321.4*	-Nagu Saki.	36° 12.7′ N 133° 11.1′ E	**Fl.W.** period 5s	151 **46**	7	White round concrete tower; 39.	
2088 *M 7321.3*	-Mi Saki.	36° 17.3′ N 133° 10.9′ E	**Fl.W.** period 4s	197 **60**	12	White round concrete tower; 33.	
	DOZEN:						
2092 *M 7323*	**-Chiburi Jima.**	35° 59.9′ N 133° 03.7′ E	**Al.Fl.W.R.** period 20s	519 **158**	W. **20** R. **16**	White tower; 39.	
2096 *M 7323.2*	-Tibu Ko.	36° 00.3′ N 133° 02.8′ E	**Mo.(A)R.** period 9s	33 **10**	5	STARBOARD (B) R, beacon, topmark; 30.	
2098 *M 7323.21*	--W. breakwater.	36° 00.3′ N 133° 02.0′ E	**F.Fl.G.** period 4s	26 **8**	F. 2 Fl. 5	White tower; 18.	
2100 *M 7323.24*	-Kurii Ko, breakwater.	36° 01.6′ N 133° 02.4′ E	**Fl.G.** period 3s	46 **14**	5	White round concrete tower; 36.	
2104 *M 7323.5*	-Akanada Hana.	36° 02.4′ N 132° 59.9′ E	**Fl.W.** period 4s	72 **22**	7	White tower; 21.	
2108 *M 7323.8*	-Mitabe Ko, breakwater.	36° 03.8′ N 132° 57.2′ E	**Fl.G.** period 3s	39 **12**	3	White round concrete tower; 31.	
2112 *M 7323.7*	**-Mitabe Misaki.**	36° 04.0′ N 132° 56.8′ E	**Fl.W.** period 12s	410 **125**	**23**	White square concrete tower; 32. Visible 306°-184°.	
2116 *M 7323.4*	-Urago Ko, breakwater.	36° 06.6′ N 133° 00.3′ E	**Fl.R.** period 3s	39 **12**	7	Red round concrete tower; 33.	
2120 *M 7323.36*	-Urago Ko, Benten, breakwater.	36° 05.5′ N 132° 59.8′ E	**F.Fl.R.** period 5s	32 **10**	F. 5 Fl. 8	Red round concrete tower; 28.	
2124 *M 7323.44*	-Urago Ko, breakwater.	36° 05.0′ N 132° 58.7′ E	**Fl.G.** period 4s	36 **11**	5	White concrete column; 28.	
2128 *M 7323.6*	-Mugiyama Hana.	36° 03.8′ N 133° 01.4′ E	**Fl.R.** period 3s	125 **38**	5	Red round concrete tower; 33.	
2132 *M 7322.6*	-Saki Ko, breakwater.	36° 03.0′ N 133° 05.5′ E	**Fl.G.** period 3s	36 **11**	3	White round concrete tower; 31.	
2136 *M 7322*	-Takada Hana.	36° 03.0′ N 133° 06.2′ E	**Fl.W.** period 3s	346 **105**	7	White round concrete tower; 24.	
2140 *M 7322.8*	-Kiroga Saki.	36° 02.1′ N 133° 04.1′ E	**Fl.W.** period 5s	134 **41**	7	White round concrete tower; 39.	
2144	-Matsuga Saki.	36° 06.1′ N 133° 03.9′ E	**Fl.W.** period 3s	43 **13**	5	White structure; 36.	
2148 *M 7321.77*	-Kamo Sima.	36° 07.1′ N 133° 05.4′ E	**Fl.(2)W.** period 5s	46 **14**	5	ISOLATED DANGER BRB, tower, topmark; 36.	
2152 *M 7321.7*	-Komori Sima.	36° 07.7′ N 133° 07.3′ E	**Fl.(3)W.** period 12s	203 **62**	7	White square concrete tower; 23.	

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2156 *M 7321.94*	-Titii Ko, breakwater.	36° 04.6′ N 133° 06.9′ E	**Fl.G.** period 4s	36 **11**	3	White round concrete tower, square base; 28.	
2160 *M 7321.9*	-Titii Misaki.	36° 04.5′ N 133° 09.1′ E	**Fl.(3)W.** period 15s	92 **28**	12	White round concrete tower, red bands; 33.	
2164 *M 7321.74*	-Lki Shoto.	36° 06.6′ N 133° 08.0′ E	**Fl.W.** period 5s	262 **80**	13	White concrete column; 31.	F.W. illuminates reef 200 meters NE.
2166 *M 7321.8*	-Oki Toyoda Ko, N. breakwater.	36° 06.5′ N 133° 08.1′ E	**Fl.R.** period 3s	52 **16**	3	Red concrete column; 31.	
2168 *M 7315.6*	Okino-gozen Shima.	35° 35.4′ N 133° 21.1′ E	**Fl.W.** period 3s	46 **14**	7	White tower; 31.	
	MIHO WAN:						
2172 *M 7316*	**-Jizo Zaki.**	35° 34.0′ N 133° 19.5′ E	**Fl.W.** period 12s	271 **83**	**23**	White round stone tower; 46.	Visible 115°-052°.
2176 *M 7317*	-Mihonoseki Ko, E. breakwater.	35° 33.6′ N 133° 18.6′ E	**Iso.R.** period 6s	26 **8**	4	Red tower; 18.	
2180 *M 7294*	-Sakai Ko, S. breakwater, head.	35° 33.1′ N 133° 16.4′ E	**Iso.W.** period 6s	43 **13**	8	White round concrete tower; 46.	
2182 *M 7294.5*	Sakai Ko.	35° 32.9′ N 133° 16.5′ E	**Fl.G.** period 3s	52 **16**	7	White tower; 46.	
2184 *M 7296*	-255°30′.	35° 32.9′ N 133° 14.4′ E	**Dir.W.R.G.**	59 **18**	W. 14 R. 11 G. 12	White tower, three red bands; 66.	F.R. 254°-255°, F.W.-256°, F.G.-257°. Iso.Y. 2s above main light.
2188 *M 7297*	-Sakai Ko Nakano, No 1 breakwater, head.	35° 31.9′ N 133° 14.9′ E	**Fl.R.** period 5s	36 **11**	5	Red tower; 31.	
2190 *M 7298*	-Inner breakwater.	35° 30.7′ N 133° 15.4′ E	**Fl.R.** period 3s	25 **8**	3	Red tower; 16.	
	NAKANO UMI:						
2192 *M 7306*	-Kame Sima.	35° 26.3′ N 133° 15.6′ E	**Fl.W.** period 4s	39 **12**	7	White round concrete tower; 27.	
2196 *M 7307*	-Yasugi Ko, S. breakwater.	35° 26.0′ N 133° 16.0′ E	**F.Fl.R.** period 5s	30 **9**	F. 2 Fl. 4	Red tower; 28.	
2200 *M 7308*	-Yonago Ko, breakwater, head.	35° 25.7′ N 133° 19.2′ E	**Iso.G.** period 4s	22 **7**	3	White round concrete tower; 16.	
2204 *M 7305*	-Sakitsu Ko, breakwater.	35° 28.2′ N 133° 15.0′ E	**Fl.(2)G.** period 6s	30 **9**	4	White round concrete tower; 28.	
2208 *M 7300*	Miho Wan AVIATION LIGHT.	35° 30.1′ N 133° 14.2′ E	**Al.Fl.W.G.** period 10s	118 **36**	W. 8 G. 6	Metal framework tower.	
2212 *M 7304*	-Suraga Hana.	35° 32.0′ N 133° 12.0′ E	**Fl.R.** period 3s	40 **12**	5	Red concrete column; 33.	
2216 *M 7293.5*	Yodoe Ko, N. breakwater.	35° 27.8′ N 133° 25.4′ E	**Iso.G.** period 4s	43 **13**	5	White tower; 28.	F.W. illuminates head of W. breakwater.
2220 *M 7293*	Mikuriya, W. breakwater.	35° 30.8′ N 133° 29.6′ E	**Fl.(2)G.** period 6s	29 **9**	4	White tower; 18.	
2224 *M 7292*	Misaki Ko, breakwater.	35° 31.8′ N 133° 35.5′ E	**Iso.R.** period 4s	49 **15**	5	Red tower; 33.	
2232 *M 7290.2*	-W. breakwater.	35° 30.8′ N 133° 39.6′ E	**Iso.R.** period 6s	49 **15**	5	Red tower; 33.	
2236 *M 7289.2*	Tomari Ko.	35° 31.1′ N 133° 56.4′ E	**Fl.W.** period 4s	115 **35**	12	White tower; 33.	F.W. illuminates reef 150 meters NW.
2240 *M 7289.4*	-W. breakwater.	35° 30.8′ N 133° 56.4′ E	**Fl.R.** period 4s	43 **13**	5	Red round concrete tower; 28.	

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2244 *M 7289.3*	-N. breakwater.	35° 30.9′ N 133° 56.4′ E	**Fl.G.** period 4s	39 **12**	3	White round concrete tower; 16.	
2248 *M 7289.14*	Nakose Ko, breakwater.	35° 31.0′ N 133° 58.0′ E	**Fl.G.** period 4s	36 **11**	4	White round concrete tower; 30.	
2252 *M 7289.1*	Natsudomari Ko, breakwater.	35° 31.8′ N 134° 00.0′ E	**Fl.G.** period 3s	52 **16**	5	White tower; 28.	
2256 *M 7289*	**Nagao Hana.**	35° 32.2′ N 134° 00.5′ E	**Fl.W.** period 8s	223 **68**	**21**	White round concrete tower; 46.	Visible 052°-305°.
2260 *M 7288.9*	Funaiso Ko, E. breakwater.	35° 31.4′ N 134° 01.2′ E	**Fl.(2)G.** period 6s	49 **15**	5	White tower; 31.	
2264 *M 7288.6*	Sakenotsu Ko.	35° 31.5′ N 134° 05.3′ E	**Fl.W.** period 3s	194 **59**	11	White round concrete tower; 24.	
2268 *M 7288.8*	-E. No 3 breakwater.	35° 31.5′ N 134° 05.4′ E	**Oc.G.** period 4s lt. 3s, ec. 1s	39 **12**	9	White tower; 31.	F.W. illuminates breakwater head 60 meters W.
2276 *M 7287.5*	-Toriga Shima.	35° 32.6′ N 134° 11.1′ E	**Fl.W.** period 5s	108 **33**	7	White tower; 39.	
2280 *M 7287.7*	-Outer breakwater.	35° 33.0′ N 134° 11.5′ E	**Fl.R.** period 4s	56 **17**	7	Red tower; 36.	
2286 *M 7287.6*	-Breakwater.	35° 32.8′ N 134° 11.5′ E	**F.Fl.G.** period 4s	42 **13**	F. 2 Fl. 5	White tower; 27.	
2288 *M 7287*	-NE. breakwater.	35° 32.8′ N 134° 11.1′ E	**Fl.(2)R.** period 6s	42 **13**	5	Red round concrete tower; 28.	
2292 *M 7286.4*	Iwato Ko.	35° 33.9′ N 134° 16.4′ E	**Fl.(2)G.** period 6s	46 **14**	5	White tower; 28.	
	AZIRO KO:						
2296 *M 7286*	**-Aziro Saki.**	35° 35.3′ N 134° 17.7′ E	**Fl.W.** period 12s	344 **105**	**20**	White round concrete tower; 36.	
2298 *M 7285.5*	-W. breakwater.	35° 34.9′ N 134° 17.3′ E	**Fl.(2)R.** period 6s	33 **10**	3	Red tower; 19.	
2300 *M 7284*	-N. breakwater, head.	35° 34.8′ N 134° 17.5′ E	**Fl.G.** period 3s	49 **15**	4	White tower; 31.	
2304 *M 7285*	-S. breakwater, head.	35° 35.0′ N 134° 17.5′ E	**Fl.R.** period 3s	39 **12**	7	Red round concrete tower; 36.	
	TAZIRI KO:						
2308 *M 7283.9*	-Taziri.	35° 35.8′ N 134° 19.0′ E	**Iso.W.** period 6s	108 **33**	8	White tower; 31.	
2312 *M 7283.96*	--Breakwater No 5.	35° 35.7′ N 134° 19.1′ E	**Fl.G.** period 3s	39 **12**	3	White tower; 31.	
2316 *M 7283.94*	-U Shima.	35° 35.8′ N 134° 19.2′ E	**Fl.R.** period 3s	46 **14**	3	Red tower; 30.	
2320 *M 7283.85*	Obaneo.	35° 36.5′ N 134° 20.7′ E	**Iso.W.** period 8s	246 **75**	8	White round concrete tower; 24.	
	IKUMI KO:						
2324 *M 7283.84*	-Hudosan.	35° 36.9′ N 134° 23.1′ E	**F.Fl.R.** period 4s	36 **11**	F. 5 Fl. 9	White tower; 31.	F.W. auxiliary light.
2328 *M 7283.8*	-Beacon on rock.	35° 37.0′ N 134° 23.1′ E	**Fl.W.** period 5s	217 **66**	12	White round concrete tower; 36.	F.W. illuminates the beacons on Yoko Sima rocky reef and Koburi Sima.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			JAPAN-HONSHU-NORTHWEST COAST				
	MOROYOSE KO:						
2332 *M 7283.6*	-Hiyori Yama.	35° 37.4′ N 134° 25.7′ E	**Fl.W.** period 5s	217 **66**	12	White round concrete tower; 36.	F.W. illuminates the beacon on drying rock about 250 meters NW.
2336 *M 7283.7*	-N. detached breakwater, S. head.	35° 37.6′ N 134° 25.8′ E	**Iso.R.** period 6s	52 **16**	5	Red round concrete tower; 33.	
2340 *M 7283.57*	Yazyoga Hana.	35° 38.1′ N 134° 26.4′ E	**Iso.W.** period 6s	243 **74**	8	White round concrete tower; 33.	F.W. illuminates Fuda Shima about 60 meters 000°.
2344 *M 7283.59*	Hamaska Ko, E. breakwater.	35° 37.8′ N 134° 26.7′ E	**Oc.G.** period 4s lt. 3s, ec. 1s	39 **12**	4	White tower; 28.	
	HAMASK KO:						
2348 *M 7283.58*	-N. breakwater.	35° 37.8′ N 134° 26.7′ E	**Fl.R.** period 3s	52 **16**	3	Red tower; 31.	
2352 *M 7283.52*	Mio O Shima.	35° 39.7′ N 134° 30.1′ E	**Fl.W.** period 4s	233 **71**	7	White round concrete tower; 28.	
2356 *M 7283.54*	Mio Ko, breakwater.	35° 39.4′ N 134° 30.0′ E	**F.Fl.G.** period 5s	39 **12**	F. 2 Fl. 5	White tower; 23.	
2360 *M 7283.5*	**Amarube Saki.**	35° 40.0′ N 134° 32.3′ E	**Fl.W.** period 15s	932 **284**	**23**	White octagonal metal tower; 46.	Visible 070°-314°.
2364 *M 7283.51*	-N.	35° 40.2′ N 134° 32.3′ E	**Fl.W.** period 5s	118 **36**	7	White metal framework tower; 22.	
2368 *M 7283.4*	Yori Ko, No 1 breakwater.	35° 39.2′ N 134° 34.5′ E	**Fl.R.** period 4s	46 **14**	5	Red tower; 31.	
2372 *M 7283.2*	Shimoiama, breakwater.	35° 38.8′ N 134° 36.9′ E	**Iso.R.** period 4s	36 **11**	5	Red round concrete tower; 27.	
2376 *M 7281*	Kasumi Ko.	35° 38.9′ N 134° 37.7′ E	**Iso.W.** period 6s	289 **88**	8	White tower; 21.	
2380 *M 7281.5*	-Breakwater, head.	35° 39.3′ N 134° 38.3′ E	**F.Fl.R.** period 4s	56 **17**	F. 2 Fl. 5	Red tower; 31.	
2384 *M 7283.3*	-N. breakwater.	35° 39.0′ N 134° 38.2′ E	**Iso.R.** period 4s	39 **12**	9	Red round concrete tower; 31.	
	SHIROYAMA:						
2392 *M 7282*	-S. breakwater.	35° 39.0′ N 134° 38.0′ E	**Fl.R.** period 3s	36 **11**	3	Red tower; 33.	
2396 *M 7283*	-N. breakwater.	35° 38.8′ N 134° 37.6′ E	**Fl.G.** period 3s	43 **13**	3	White tower; 31.	
2400 *M 7280*	Shibayama Ko.	35° 39.9′ N 134° 39.8′ E	**Fl.W.** period 3s	325 **99**	7	White round concrete tower, square base; 30.	
2401 *M 7280.21*	-Breakwater.	35° 40.1′ N 134° 39.9′ E	**Fl.Y.** period 4s	39 **12**	3		
2401.01 *M 7280.2*	-E. Breakwater.	35° 40.1′ N 134° 40.0′ E	**Fl.R.** period 4s	56 **17**	3	Red tower; 30.	
2401.1 *M 7280.3*	-Inner breakwater.	35° 39.7′ N 134° 40.5′ E	**Fl.W.** period 4s	62 **19**	3	White tower; 9.	
2402 *M 7280.7*	Sibayama Ko.	35° 39.3′ N 134° 40.2′ E	**Fl.G.** period 3s	46 **14**	5	White tower; 31.	
2408 *M 7280.4*	-W. breakwater, head.	35° 39.3′ N 134° 39.9′ E	**Fl.R.** period 5s	39 **12**	3	Red round concrete tower; 30.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			JAPAN-HONSHU-NORTHWEST COAST				
2412 *M 7278.6*	Neko Saki.	35° 40.5′ N 134° 45.9′ E	**Fl.(2)W.** period 7s	141 **43**	7	White tower; 32.	
	TAKENO BENTEN SHIMA:						
2416 *M 7279*	-N. Breakwater.	35° 39.8′ N 134° 45.4′ E	**F.Fl.G.** period 5s	36 **11**	F. 3 Fl. 7	White round concrete tower; 28.	
2420 *M 7279.1*	-Takeno Range, front.	35° 39.7′ N 134° 45.4′ E	**F.G.**	46 **14**	9	White round concrete tower, white triangular daymark point up; 18.	
2424 *M 7279.2*	--Rear, 18 meters 167° from front.	35° 39.5′ N 134° 45.5′ E	**F.G.**	56 **17**	9	White round concrete tower, white triangular daymark point up; 30.	
	TSUIYAMA KO:						
2428 *M 7276*	-Sarugajo.	35° 39.3′ N 134° 50.3′ E	**Fl.W.** period 4s	151 **46**	13	White round concrete tower, square base; 31.	F.W. illuminates rock 180 meters NE.
2432 *M 7277*	-Training Wall.	35° 39.1′ N 134° 50.3′ E	**Iso.R.** period 6s	39 **12**	5	Red round concrete tower; 33.	
2436 *M 7278*	-New groin, about 604 meters 133° from Onaru Yama Summit.	35° 39.0′ N 134° 50.4′ E	**Iso.G.** period 6s	26 **8**	4	White tower; 21.	
2440 *M 7275*	-Sutego Hana.	35° 39.5′ N 134° 51.2′ E	**Fl.W.** period 3s	184 **56**	7	White round concrete tower, red bands; 33.	
2443 *M 7274.7*	Kumihama Ko, breakwater.	35° 39.0′ N 134° 54.1′ E	**Fl.R.** period 3s	36 **11**	4	Red round concrete tower; 28.	
2444 *M 7274.5*	-S. breakwater.	35° 39.0′ N 134° 54.1′ E	**Fl.G.** period 3s	43 **13**	5	White round concrete tower; 39.	
2448 *M 7274.4*	Hamazuma Ko.	35° 40.4′ N 134° 57.7′ E	**Fl.(2)G.** period 6s	43 **13**	4	White round concrete tower, square base; 31.	
2452 *M 7274.2*	Hamazuma Ko Shioe, breakwater.	35° 40.6′ N 134° 58.3′ E	**Iso.R.** period 4s	33 **10**	5	Red round concrete tower; 30.	
2456 *M 7274*	Asamokawa Ko, E. groin.	35° 41.7′ N 135° 00.9′ E	**Fl.G.** period 3s	43 **13**	5	White round concrete tower; 18.	
2460 *M 7274.1*	-E. inner breakwater.	35° 41.5′ N 135° 01.0′ E	**Oc.G.** period 4s lt. 3s, ec. 1s	39 **12**	9	White round concrete tower; 31.	
2464 *M 7273*	Mitsu Ko, breakwater.	35° 42.8′ N 135° 03.9′ E	**F.Fl.R.** period 3s	39 **12**	F. 2 Fl. 5	Red tower; 31.	
2468 *M 7272*	Taiza Ko, entrance.	35° 44.5′ N 135° 05.5′ E	**F.Fl.(2)G.** period 7s	56 **17**	F. 4 Fl. 7	White round concrete tower; 30.	F.W. illuminates reef 30 meters W. **DGPS Station.**
2472 *M 7271.6*	Tango Takeno Ko.	35° 44.7′ N 135° 06.8′ E	**Fl.R.** period 3s	33 **10**	5	Red tower; 28.	
2476 *M 7271.4*	Nakahama Ko, detached breakwater, No 2.	35° 45.7′ N 135° 10.8′ E	**Fl.(2)R.** period 6s	49 **15**	7	Red round concrete tower; 33.	
2480 *M 7270*	**Kyoga Misaki.**	35° 46.6′ N 135° 13.4′ E	**Fl.(3)W.** period 20s	486 **148**	**29**	White round stone tower; 39.	
2484 *M 7269.7*	Honjo Ko, N. breakwater.	35° 45.3′ N 135° 15.3′ E	**F.Fl.(2)R.** period 8s	43 **13**	F. 2 Fl. 5	White tower; 30.	
2486 *M 7269.45*	Nii Saki.	35° 41.5′ N 135° 18.4′ E	**Fl.R.** period 3s	30 **9**	3	Red tower; 16.	
2488 *M 7269.4*	Washi Zaki.	35° 39.8′ N 135° 18.2′ E	**Fl.W.** period 3s	256 **78**	7	White round concrete tower; 36.	

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			JAPAN-HONSHU-NORTHWEST COAST				
2492 *M 7269.5*	Ine Ko.	35° 39.9′ N 135° 16.9′ E	**Fl.W.** period 4s	170 **52**	7	White round concrete tower; 33.	
2496 *M 7269.6*	-Kanjagahana.	35° 39.9′ N 135° 17.2′ E	**Fl.R.** period 3s	29 **9**	5	Red tower; 28.	
2497 *M 7268.8*	Yoro Ko.	35° 39.7′ N 135° 16.0′ E	**Fl.G.** period 3s	22 **7**	5	White tower; 16.	
	MAIZURU WAN:						
2500 *M 7267*	-Miyazu Wan.	35° 35.9′ N 135° 15.2′ E	**Fl.(2)W.** period 6s	407 **124**	7	White tower; 43.	
2504 *M 7258*	**-Bakuchi Misaki.**	35° 32.9′ N 135° 20.5′ E	**Fl.W.** period 10s	423 **129**	**19**	White square concrete tower; 39.	Visible 018°-258°.
2512 *M 7260*	--Sanbonmatsu.	35° 30.3′ N 135° 20.6′ E	**Fl.G.** period 3s	43 **13**	5	White round concrete tower; 21.	
2516 *M 7259*	-Miyo Saki.	35° 30.1′ N 135° 22.8′ E	**Fl.(3)W.** period 13s	33 **10**	5	White round concrete tower; 30.	
2518 *M 7262*	-Kuro Hana. Maizuru Crane Bridge.	35° 30.6′ N 135° 23.3′ E	**2 Iso.W.** period 6s	82 **25**	5	Bridge.	2 Iso.W. marks center. Vertical clearance 24 meters. Bridge marked by 4 Fl.Y.
2520 *M 7261*	-To Shima.	35° 29.6′ N 135° 20.3′ E	**Fl.W.** period 4s	36 **11**	5	White round concrete tower; 33.	
2524 *M 7261.4*	-Kita, breakwater.	35° 27.4′ N 135° 19.0′ E	**F.Fl.R.** period 3s	33 **10**	F. 3 Fl. 7	Red tower; 31.	
2528 *M 7256.6*	Tai Ko, No 2 breakwater.	35° 34.2′ N 135° 27.2′ E	**F.Fl.G.** period 5s	43 **13**	F. 2 Fl. 5	White tower; 31.	
2532 *M 7257.2*	-No 1 breakwater.	35° 34.7′ N 135° 27.0′ E	**Fl.R.** period 3s	36 **11**	5	Red tower; 31.	
2536 *M 7257*	Naryu Zaki, on point.	35° 36.1′ N 135° 27.7′ E	**Fl.W.** period 5s	308 **94**	7	White square concrete tower; 26.	
2538 *M 7255.4*	Uchiura Ko, breakwater, head.	35° 32.3′ N 135° 29.7′ E	**Fl.G.** period 3s	36 **11**	5	White tower; 27.	
2540 *M 7255*	Oshimawashi Saki.	35° 33.1′ N 135° 30.1′ E	**Fl.(2)W.** period 10s	525 **160**	7	White round concrete tower; 33.	
2544 *M 7254.4*	Wakasa Takahama Ko, detached breakwater.	35° 29.8′ N 135° 33.0′ E	**Oc.G.** period 5s lt. 4s, ec. 1s	49 **15**	5	White tower; 30.	
2548 *M 7254*	Shiroyama.	35° 29.8′ N 135° 33.2′ E	**Fl.W.** period 3s	89 **27**	7	White round concrete tower; 26.	
2552 *M 7254.6*	Wada Ko, N. breakwater.	35° 29.8′ N 135° 34.3′ E	**Fl.(2)G.** period 6s	39 **12**	3	White tower; 27.	
2554 *M 7254.7*	-Breakwater.	35° 30.0′ N 135° 34.9′ E	**Fl.(2)R.** period 6s	36 **11**	4	Red tower; 19.	
2556 *M 7252*	Nokogiri Saki.	35° 32.8′ N 135° 39.7′ E	**Iso.W.** period 6s	85 **26**	12	White round concrete tower; 39.	Visible 092°42′-340°.
2560 *M 7252.4*	Akaguri Saki.	35° 31.4′ N 135° 40.3′ E	**Fl.R.** period 4s	75 **23**	5	White round concrete tower, red bands; 33.	
2564 *M 7252.8*	Obama Ko, W. breakwater.	35° 30.0′ N 135° 43.9′ E	**Fl.(3)G.** period 12s	32 **10**	7	White round concrete tower; 28.	
2568 *M 7252.7*	-Breakwater, head.	35° 30.3′ N 135° 44.2′ E	**Fl.G.** period 3s	36 **11**	5	White round concrete tower; 33.	
2572 *M 7251.6*	Tagarasu Ko, Myojin Hana.	35° 32.5′ N 135° 49.6′ E	**Fl.(2)W.** period 6s	79 **24**	7	White round concrete tower; 26.	

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			JAPAN-HONSHU-NORTHWEST COAST				
2576 *M 7251.4*	Kuro Guri.	35° 36.1′ N 135° 50.0′ E	**Iso.W.** period 6s	42 **13**	5	White tower; 30.	
2580 *M 7251*	Tunekami Saki.	35° 38.2′ N 135° 49.0′ E	**Fl.W.** period 3s	800 **244**	12	White tower; 24.	
2584 *M 7250.5*	Hiruga Ko, breakwater.	35° 36.8′ N 135° 53.5′ E	**F.Fl.(2)R.** period 6s	36 **11**	F. 2 Fl. 5	Red round concrete tower; 26.	
2585 *M 7250.6*	Hiruga Ko.	35° 36.8′ N 135° 53.6′ E	**Oc.G.** period 4s lt. 3s, ec. 1s	30 **9**	5	White tower; 19.	
2588 *M 7250*	Hayase Ko, breakwater, head.	35° 37.0′ N 135° 54.6′ E	**Fl.R.** period 3s	31 **9**	3	Red round concrete tower; 19.	
2592 *M 7249.6*	Sugahama Ko, breakwater.	35° 39.2′ N 135° 58.2′ E	**Fl.G.** period 3s	42 **13**	5	White tower; 31.	
2596 *M 7249*	Funatosi Saki.	35° 42.2′ N 135° 57.4′ E	**Iso.W.** period 6s	198 **60**	14	White tower; 33.	F.W. illuminates Otogami Guri 350 meters W.
2600 *M 7246*	**Tateishi Saki.**	35° 45.7′ N 136° 01.1′ E	**Fl.W.** period 10s	400 **122**	**20**	White round stone tower; 26.	Visible 060°-319°.
2604 *M 7247*	Tsuruga Ko, breakwater, head.	35° 39.9′ N 136° 03.5′ E	**F.Fl.G.** period 3s	46 **14**	F. 4 Fl. 7	White tower; 46.	
2616 *M 7248.2*	-E. breakwater.	35° 39.6′ N 136° 03.6′ E	**Fl.R.** period 3s	23 **7**	5	Red round concrete structure; 19.	
2620 *M 7245.5*	Kono Ko, No 2 breakwater.	35° 49.5′ N 136° 04.2′ E	**Oc.G.** period 4s lt. 3s, ec. 1s	39 **12**	5	White round concrete structure; 30.	
2624 *M 7245*	Kaburagi Ko, No 1 breakwater.	35° 50.3′ N 136° 02.9′ E	**F.Fl.(2)G.** period 10s	43 **13**	F. 2 Fl. 5	White tower; 33.	
2628 *M 7244*	Nuka Ko Oki, breakwater.	35° 50.9′ N 136° 02.3′ E	**Fl.G.** period 4s	42 **13**	3	White round concrete tower; 33.	
2632 *M 7243.8*	Kare Zaki, about 10.9 kilometers 162°30′ from Echizen Misaki light.	35° 53.3′ N 135° 59.8′ E	**Fl.(2)W.** period 9s	154 **47**	12	White square concrete tower; 31.	
2636 *M 7243.75*	Takasa, No 2 breakwater.	35° 53.5′ N 136° 59.8′ E	**F.W.**	65 **20**		White tower; 21.	Illuminates breakwater 170 meters NNW.
2640 *M 7243.7*	Echizen Sirahama Ko, No 1 breakwater.	35° 54.0′ N 135° 59.8′ E	**Fl.(2)G.** period 6s	39 **12**	5	White round concrete tower; 31.	
2666 *M 7243.5*	Etizen Gyoko, breakwater.	35° 56.1′ N 135° 59.5′ E	**Iso.G.** period 4s	52 **16**	5	White tower; 33.	
2668 *M 7243*	Kuro Jogatani, breakwater.	35° 56.7′ N 135° 59.2′ E	**F.Fl.G.** period 4s	46 **14**	F. 2 Fl. 5	White tower; 27.	
2672 *M 7242.6*	Sikaura Ko Singo, No 2 breakwater.	35° 56.9′ N 135° 59.1′ E	**Fl.(2)G.** period 7s	56 **17**	3	White tower; 33.	
2676 *M 7242*	**Echizen Misaki.**	35° 58.8′ N 135° 57.7′ E	**Fl.W.** period 15s	436 **133**	**21**	White tower; 52.	
2680 *M 7241.5*	Gumisaka Ko, breakwater.	36° 02.6′ N 136° 00.5′ E	**Fl.G.** period 3s	49 **15**	5	White tower; 31.	
2684 *M 7241*	Shirahama Ko, outer breakwater, head.	36° 05.0′ N 136° 01.6′ E	**Oc.G.** period 8s lt. 6s, ec. 2s	36 **11**	9	White tower; 29.	F.W. illuminates rocks 120 meters NW.
2688 *M 7240.7*	Nagahasi Ko Nisi, W. breakwater, head.	36° 06.8′ N 136° 02.9′ E	**Fl.(2)R.** period 6s	46 **14**	5	Red tower; 28.	
2692 *M 7240.5*	Takanosu Ko.	36° 07.9′ N 136° 03.6′ E	**F.Fl.W.** period 5s	43 **13**	F. 6 Fl. 10	White round concrete tower; 30.	F.W. illuminates reef 120 meters W.
2696 *M 7240.3*	Hukui Ko, N. breakwater.	36° 12.0′ N 136° 07.1′ E	**Oc.G.** period 8s lt. 6s, ec. 2s	52 **16**	5	White round concrete tower; 46.	

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			JAPAN-HONSHU-NORTHWEST COAST				
2700 *M 7240.4*	-S. breakwater.	36° 12.3′ N 136° 06.7′ E	**Fl.R.** period 3s	56 **17**	4	Red round concrete tower; 33.	
2704 *M 7240*	Mikuni Ko, breakwater, S. head.	36° 13.1′ N 136° 07.7′ E	**F.Fl.G.** period 4s	39 **12**	F. 4 Fl. 7	White round concrete tower; 33.	
2708 *M 7240.2*	-SW. obstruction light, breakwater.	36° 13.2′ N 136° 07.9′ E	**F.W.**	36 **11**		White round concrete tower; 33.	Spotlight illuminates head of breakwater.
2712 *M 7239.7*	-O Shima.	36° 15.1′ N 136° 07.1′ E	**Fl.(2)W.** period 9s	128 **39**	12	White round concrete tower; 33.	
2716 *M 7239.5*	Sioya Ko.	36° 17.9′ N 136° 14.5′ E	**Fl.(2)G.** period 5s	39 **12**	7	White tower; 28.	
2720 *M 7237*	Hasitate Ko.	36° 21.0′ N 136° 18.0′ E	**Fl.(3)W.** period 13s	177 **54**	12	White tower; 49.	Visible 035°-283°.
2724 *M 7238*	-Breakwater, head.	36° 21.2′ N 136° 18.9′ E	**Fl.R.** period 4s	30 **9**	3	Red tower; 25.	
2728 *M 7237.4*	-NE. breakwater, head.	36° 21.4′ N 136° 18.9′ E	**Fl.G.** period 3s	46 **14**	3	White round concrete tower; 33.	
2732 *M 7237.2*	--Outer breakwater.	36° 21.6′ N 136° 18.9′ E	**Fl.(2)G.** period 6s	49 **15**	7	White round tower; 30.	Fl.R. 3s 13m 3M 250 meters S. on breakwater.
2736 *M 7236.4*	Ataka.	36° 25.2′ N 136° 25.0′ E	**Fl.(2)W.** period 6s	72 **22**	12	White round concrete tower; 52.	
2740 *M 7236*	Mikawa.	36° 29.6′ N 136° 29.1′ E	**Fl.W.** period 4s	82 **25**	12	White tower; 49.	
2744 *M 7234*	Kanazawa Ko, jetty, head.	36° 36.4′ N 136° 34.9′ E	**Fl.R.** period 4s	43 **13**	5	Red tower; 31.	
2748 *M 7234.4*	-E. breakwater, head.	36° 36.3′ N 136° 35.1′ E	**Fl.G.** period 4s	42 **13**	3	White concrete column; 30.	
2752 *M 7232*	**Ono Ko.**	36° 37.0′ N 136° 36.2′ E	**Fl.W.** period 10s	112 **34**	**16**	White square concrete tower; 85.	Visible 036°-216°.
2756 *M 7233.2*	-Breakwater.	36° 37.2′ N 136° 36.1′ E	**Fl.R.** period 3s	36 **11**	3	Red tower; 31.	
2760 *M 7233*	-W. breakwater, head.	36° 38.6′ N 136° 36.0′ E	**Fl.(2)R.** period 6s	43 **13**	7	Red tower; 36.	
2764 *M 7232.4*	-E. breakwater.	36° 38.6′ N 136° 36.4′ E	**Fl.(2)G.** period 6s	36 **11**	3	White tower; 27.	
2768 *M 7230*	Shiroo.	36° 43.3′ N 136° 41.1′ E	**Fl.(2)W.** period 7s	82 **25**	12	White round concrete tower, square base; 33.	Visible 020°-212°.
2772 *M 7225*	Taki Ko, breakwater.	36° 55.2′ N 136° 45.3′ E	**Iso.G.** period 6s	39 **12**	5	White round concrete tower; 27.	
2776 *M 7226*	--E. breakwater.	36° 55.3′ N 136° 45.3′ E	**Fl.(2)R.** period 6s	26 **8**	3	Red round metal tower, concrete base; 18.	
2780 *M 7224*	Taki Saki.	36° 55.7′ N 136° 45.0′ E	**Fl.W.** period 5s	59 **18**	12	White tower; 36.	
2788 *M 7221.6*	Abuya Ko, breakwater.	37° 00.8′ N 136° 44.5′ E	**F.Fl.G.** period 5s	36 **11**	F. 2 Fl. 5	White tower; 27.	
2790 *M 7221.3*	Hokoriku Denryoku.	37° 03.7′ N 136° 43.1′ E	**Fl.R.** period 4s	36 **11**	3	Red tower; 18.	
2791 *M 7221.4*	-S. breakwater.	37° 03.5′ N 136° 43.1′ E	**Fl.G.** period 4s	36 **11**	3	White tower; 18.	
2792 *M 7220*	**Fukura Ko.**	37° 04.6′ N 136° 43.2′ E	**Fl.W.** period 12s	92 **28**	**15**	White tower; 49.	Visible 350°-210°.
2804 *M 7221*	-Mo Saki Range, front.	37° 05.1′ N 136° 43.5′ E	**F.R.** (neon)	45 **14**	7	Round concrete tower, white triangular daymark point up; 43.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			JAPAN-HONSHU-NORTHWEST COAST				
2808 *M 7221.1*	--Rear, 90 meters 090°06′ from front.	37° 04.9′ N 136° 43.7′ E	**F.R.** (neon)	79 **24**	7	Round concrete tower, white triangular daymark point down; 29.	
2812 *M 7214*	Kazanasi, breakwater, head.	37° 08.2′ N 136° 41.3′ E	**Iso.G.** period 6s	46 **14**	4	White round concrete tower; 31.	
2816 *M 7216*	Togi Ko, breakwater, head.	37° 08.6′ N 136° 42.1′ E	**Fl.(2)G.** period 6s	39 **12**	5	White tower; 29.	
2820 *M 7213*	Ama Saki.	37° 08.8′ N 136° 40.3′ E	**Iso.W.** period 6s	91 **28**	12	White tower; 49.	
2824 *M 7212.4*	Noto-Akasaki Ko, breakwater, head.	37° 10.0′ N 136° 40.5′ E	**Fl.G.** period 3s	33 **10**	3	White tower; 19.	
2828 *M 7212*	**Saruyama Zaki.**	37° 19.4′ N 136° 43.5′ E	**Fl.W.** period 8s	719 **219**	**20**	White square concrete tower; 56.	Visible 014°-213°.
2830 *M 7210*	Minatuki Ko.	37° 21.2′ N 136° 45.3′ E	**Fl.G.** period 4s	25 **8**	5	White tower; 18.	
2832 *M 7209*	Wazima Ko.	37° 22.6′ N 136° 48.1′ E	**Fl.R.** period 3s	42 **13**	5	Red tower; 31.	
2836 *M 7204*	**Tatsuga Saki.**	37° 24.3′ N 136° 53.9′ E	**Fl.W.** period 15s	217 **66**	**21**	White round concrete tower; 36.	Visible 092°-292°. F.W. auxiliary light illuminates shoal about 750 meters NNE.
	WAJIMA KO:						
2840 *M 7206*	-No 1 breakwater, head.	37° 24.1′ N 136° 54.3′ E	**Fl.R.** period 3s	39 **12**	5	Red tower; 31.	
2844 *M 7207*	-No 2 breakwater, head.	37° 24.6′ N 136° 54.9′ E	**Fl.(2)R.** period 6s	49 **15**	5	Red tower; 31.	
2852 *M 7202*	Nanatsu Shima.	37° 36.6′ N 136° 54.1′ E	**Fl.W.** period 5s	215 **66**	7	White tower; 25.	
2856 *M 7200*	**Hekura Jima.**	37° 51.1′ N 136° 55.1′ E	**Fl.W.** period 10s	140 **43**	**18**	White round concrete tower; 112.	
2860 *M 7201*	-Ko, breakwater No 1.	37° 50.8′ N 136° 55.4′ E	**Fl.G.** period 3s	39 **12**	3	White round concrete tower; 31.	
2864 *M 7201.4*	--No 2, head.	37° 50.9′ N 136° 55.3′ E	**Fl.R.** period 3s	39 **12**	4	Red round concrete tower; 27.	
2868 *M 7201.6*	-Outer breakwater.	37° 50.8′ N 136° 55.4′ E	**Fl.G.** period 5s	43 **13**	4	White tower; 31.	
2872 *M 7198*	Noto Kura Saki.	37° 29.9′ N 137° 08.7′ E	**Fl.(2)W.** period 7s	230 **70**	7	White tower; 28.	
2876 *M 7195.9*	Takaya, breakwater, head.	37° 31.4′ N 137° 14.3′ E	**Fl.R.** period 3s	56 **17**	7	Red concrete column; 31.	
2880 *M 7195.95*	-W. breakwater, head.	37° 31.3′ N 137° 14.4′ E	**Fl.G.** period 3s	43 **13**	3	White tower; 31.	
2884 *M 7199*	Yome Guri.	37° 40.3′ N 137° 12.5′ E	**Fl.(2)W.** period 8s	43 **13**	5	White tower; 27.	
2888 *M 7196*	**Rokugo Saki.**	37° 31.7′ N 137° 19.6′ E	**Iso.W.** period 6s	157 **48**	**18**	White round stone tower; 39.	Visible 095°-312°. Storm signals.
2892 *M 7195.8*	Norosi Ko, breakwater, head.	37° 31.3′ N 137° 20.0′ E	**Iso.R.** period 6s	43 **13**	4	Red tower; 31.	
2896 *M 7195*	Himeshima Guri.	37° 30.2′ N 137° 21.6′ E	**Fl.W.** period 4s	43 **13**	5	White tower; 43.	
2900 *M 7195.4*	Ai Saki.	37° 30.2′ N 137° 21.1′ E	**F.W.**	102 **31**		White square concrete tower; 28.	Illuminates Gyozya Guri about 560 meters E.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			JAPAN-HONSHU-NORTHWEST COAST				
2902 *M 7194.5*	Suzu Misaki.	37° 30.0′ N 137° 21.1′ E	**Fl.R.** period 3s	36 **11**	3	Red tower; 28.	
2904 *M 7194*	Nagate Saki.	37° 27.0′ N 137° 21.6′ E	**Fl.W.** period 3s	52 **16**	7	White tower; 56.	
2912 *M 7192.4*	-W. of No 2 breakwater, head.	37° 26.2′ N 137° 18.2′ E	**Fl.(2)R.** period 6s	39 **12**	5	Red tower; 28.	
2914 *M 7192.6*	-Takajima Gyoko, breakwater.	37° 26.1′ N 137° 18.4′ E	**Fl.(2)G.** period 6s	28 **9**	3	White tower; 18.	
2916 *M 7190.8*	Ukai Ko, breakwater.	37° 24.0′ N 137° 14.8′ E	**Iso.R.** period 4s	39 **12**	5	Red tower; 29.	
2920 *M 7190*	Matsunami Ko, breakwater.	37° 21.0′ N 137° 15.0′ E	**Fl.G.** period 3s	39 **12**	3	White tower; 31.	
2924 *M 7189.6*	Noto Aka Saki.	37° 21.4′ N 137° 16.0′ E	**Fl.W.** period 3s	39 **12**	7	White round concrete tower; 31.	
2928 *M 7189.4*	Noto Jo-ga-Saki.	37° 20.4′ N 137° 15.9′ E	**Fl.W.** period 4s	69 **21**	12	White round concrete tower; 31.	
	NOTO OGI KO:						
2932 *M 7189*	-Tsukumo Wan, S. breakwater.	37° 17.8′ N 137° 13.9′ E	**Fl.(2)R.** period 5s	39 **12**	5	Red round concrete tower; 31.	
2936 *M 7188.2*	-Tsukumo Wan.	37° 18.1′ N 137° 14.2′ E	**Fl.G.** period 4s	30 **9**	3	PORT (B) G, tower, topmark.	
2940 *M 7188.1*	-Motoogi, breakwater.	37° 17.8′ N 137° 13.7′ E	**Fl.R.** period 3s	33 **10**	3	Red round concrete tower, square base; 27.	
2944 *M 7188*	**-Inuyama.**	37° 17.8′ N 137° 13.9′ E	**Fl.W.** period 10s	105 **32**	**16**	White round concrete tower; 46.	Visible 232°-050°.
2948 *M 7188.4*	-Obase, breakwater.	37° 17.9′ N 137° 14.1′ E	**Fl.(2)G.** period 5s	39 **12**	3	White round concrete tower; 30.	
2956 *M 7186.6*	Ikari Shima.	37° 17.6′ N 137° 12.9′ E	**Fl.G.** period 3s	36 **11**	3	White round concrete tower; 31.	
2960 *M 7185*	Usetsu Ko.	37° 18.0′ N 137° 09.1′ E	**Fl.(3)W.** period 13s	125 **38**	12	White tower; 33.	
2964 *M 7186*	Usetsu Ko, S. No 1 breakwater.	37° 17.7′ N 137° 09.3′ E	**Fl.(2)G.** period 6s	30 **9**	5	White round concrete tower, square base; 18.	
2968 *M 7186.2*	Usetsu Ko, E. No 2 breakwater.	37° 17.7′ N 137° 09.6′ E	**Iso.R.** period 6s	40 **12**	4	Red tower; 30.	
2972 *M 7184*	Ukawa Ko, training wall, head.	37° 15.1′ N 137° 05.3′ E	**Fl.W.** period 3s	39 **12**	5	White round concrete tower; 33.	
2976 *M 7183*	Anamizu.	37° 13.0′ N 136° 55.0′ E	**Fl.W.** period 3s	161 **49**	7	White square concrete tower; 36.	Visible 275°-131°.
2980 *M 7182.6*	Bagura, E. breakwater, head.	37° 10.1′ N 137° 02.0′ E	**Fl.G.** period 4s	33 **10**	3	Red tower; 31.	
2982 *M 7183.5*	Noto Nakano Sima.	37° 09.3′ N 136° 54.9′ E	**Fl.W.** period 4s	24 **7**	5	White tower; 18.	
2984 *M 7173*	Enome Ko, No 1 breakwater, head.	37° 09.2′ N 137° 03.1′ E	**Fl.(2)R.** period 5s	39 **12**	5	Red round concrete tower; 31.	
2988 *M 7172.4*	Kato Saki.	37° 09.0′ N 137° 03.2′ E	**F.W.**	36 **11**		White tower; 29.	
	NANAO WAN:						
2992 *M 7172*	**-Kannon Saki.**	37° 06.4′ N 137° 03.5′ E	**Fl.W.** period 8s	105 **32**	**16**	White concrete tower; 39.	Visible 155°-005°.

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			JAPAN-HONSHU-NORTHWEST COAST				
2994 *M 7171.8*	Unoura Ko.	37° 06.0′ N 137° 03.3′ E	**Fl.R.** period 3s	26 **8**	3	Red tower; 18.	
2996 *M 7174*	-Noto Jima, on Kojin Hana.	37° 07.0′ N 137° 02.0′ E	**Fl.W.** period 3s	59 **18**	7	White tower; 46.	
3000 *M 7174.5*	--	37° 06.7′ N 137° 01.3′ E	**Dir.W.R.G.**	43 **13**	W. 12 R. 11 G. 12	White tower.	F.R. 256°24′-258°12′, F.W.-259°30′ F.G.-261°12′.
3004 *M 7177*	-Me Shima, about 3.5 kilometers 039° from Naneo.	37° 04.4′ N 136° 59.6′ E	**Fl.(2)R.** period 6s	43 **13**	5	Red tower; 33.	
3008 *M 7180*	Nanao Ko Huchu, E. breakwater.	37° 02.9′ N 136° 58.3′ E	**Fl.R.** period 3s	26 **8**	4	Red round metal structure; 24.	
3014 *M 7182.2*	-N. breakwater, head.	37° 04.6′ N 136° 56.4′ E	**Fl.(2)G.** period 6s	20 **6**	5	White tower; 16.	
3016 *M 7171.4*	Enotomari Ko, breakwater.	37° 04.1′ N 137° 03.2′ E	**Fl.R.** period 3s	39 **12**	3	Red round concrete tower; 31.	
3020 *M 7171*	Iori Ko, E. breakwater.	37° 02.3′ N 137° 02.8′ E	**Fl.(2)R.** period 5s	33 **10**	5	Red round concrete tower; 27.	
3024 *M 7170.5*	Simosazanami Ko.	37° 00.7′ N 137° 03.0′ E	**Fl.R.** period 4s	40 **12**	5	Red tower; 31.	
3028 *M 7170*	Mera Ko, E. breakwater.	36° 57.0′ N 137° 02.5′ E	**Fl.R.** period 4s	39 **12**	3	Red round concrete tower; 31.	
3030 *M 7169.5*	Osakai Ko, breakwater.	36° 55.2′ N 137° 01.8′ E	**Fl.(2)R.** period 8s	26 **8**	4	Red concrete structure; 19.	
3032 *M 7169*	Unami Ko, E. breakwater.	36° 54.7′ N 137° 01.4′ E	**Iso.R.** period 6s	28 **8**	5	Red tower; 18.	
	TOYAMA WAN:						
3036 *M 7168*	-Ettyu Tomari Ko, breakwater.	36° 53.7′ N 137° 00.6′ E	**Fl.(2)R.** period 5s	23 **7**	3	Red tower; 18.	
3040 *M 7167.4*	-Yabuta Ko, breakwater.	36° 53.3′ N 137° 00.1′ E	**Fl.R.** period 3s	36 **11**	3	Red round concrete tower; 31.	
	-Himi Ko:						
3044 *M 7166*	--N. breakwater, E. head.	36° 51.8′ N 136° 59.6′ E	**Fl.R.** period 5s	39 **12**	4	Red round concrete tower; 28.	
3046 *M 7166.75*	--Etchu Ao Ko, breakwater.	36° 53.0′ N 136° 59.8′ E	**Iso.R.** period 4s	25 **8**	5	Red tower; 18.	
3048 *M 7166.5*	--E. breakwater, N. head.	36° 51.7′ N 136° 59.6′ E	**Fl.G.** period 5s	42 **13**	4	White round concrete tower; 31.	
3052 *M 7164.5*	--Kara Shima, on summit.	36° 51.9′ N 136° 59.7′ E	**Fl.W.** period 3s	66 **20**	7	White tower; 39.	
3056 *M 7160*	**-Iwasakino Hano.**	36° 48.5′ N 137° 03.0′ E	**Fl.W.** period 15s	190 **58**	**20**	White round concrete tower; 46.	Visible 132°-318°.
3060 *M 7160.4*	-Kokubu, E. breakwater, head.	36° 48.4′ N 137° 03.5′ E	**Fl.G.** period 3s	26 **8**	5	White round concrete tower; 18.	
3064 *M 7160.6*	--Breakwater, head.	36° 48.3′ N 137° 03.4′ E	**Fl.R.** period 3s	40 **12**	3	Red concrete column; 30.	
3064.1 *M 7162.4*	-Kokubu Passage.	36° 49.3′ N 137° 04.5′ E	**Fl.(5)Y.** period 20s	46 **14**	4	SPECIAL Y, beacon, “X” topmark; 46.	
3065 *M 7162.3*	-Fushiki-Tyuo.	36° 48.1′ N 137° 04.2′ E	**Fl.(2)G.** period 5s	39 **12**	4	White tower; 25.	

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			JAPAN-HONSHU-NORTHWEST COAST				
3066 *M 7162.2*	-N. breakwater, SE. head.	36° 48.1′ N 137° 04.5′ E	**Fl.(2)R.** period 5s	43 **13**	7	Red tower; 33.	
	FUSHIKI KO:						
3068 *M 7160.92*	--E. breakwater.	36° 47.6′ N 137° 04.1′ E	**Fl.G.** period 4s	39 **12**	3	White tower; 30.	
3072 *M 7160.9*	--W. breakwater.	36° 47.7′ N 137° 04.1′ E	**Fl.R.** period 4s	43 **13**	5	Red tower; 31.	F.R. on chimney 1 mile SW.
3076 *M 7161.3*	--227°54′.	36° 47.5′ N 137° 04.4′ E	**Dir.W.R.G.**	66 **20**	W. 12 R. 10 G. 10	White round concrete tower; 59.	F.R. 225°24′-226°24′, F.W.-229°24′, F.G.-230°24′. Oc.Y. 4s above main light. Emergency light W. 2M, R. 1M, G. 1M.
3080 *M 7156*	--W. breakwater, head.	36° 47.2′ N 137° 05.0′ E	**Fl.(2)R.** period 7s	33 **10**	5	Red tower; 28.	
3084 *M 7152*	--Detached E. breakwater, head.	36° 47.2′ N 137° 05.0′ E	**Fl.(2)G.** period 7s	46 **14**	3	White tower; 33.	
3088 *M 7154*	--E. breakwater, S. head.	36° 47.1′ N 137° 05.0′ E	**Fl.R.** period 3s	30 **9**	3	Red tower; 19.	
3090 *M 7151.8*	Sinmanato Gyoko.	36° 47.1′ N 137° 05.4′ E	**Fl.G.** period 3s	46 **14**	5	White tower; 30.	
	SINMINTO:						
3092 *M 7151.4*	-Toyama Sinko, W. breakwater.	36° 46.9′ N 137° 06.9′ E	**Fl.(2)R.** period 6s	52 **16**	5	Red tower; 49.	
3096 *M 7151*	--E. breakwater.	36° 47.0′ N 137° 07.1′ E	**Fl.(2)G.** period 6s	52 **16**	7	White tower; 49.	
3098 *M 7150.6*	-Yokata Ko.	36° 45.7′ N 137° 11.6′ E	**Fl.R.** period 3s	36 **11**	3	Red tower; 28.	
3100 *M 7150.5*	*--Nihonkai Oil sea berth, buoy.*	36° 47.0′ N 137° 12.6′ E	**Mo.(U)W.** period 8s	26 **8**	6		**Horn:** 1 bl. ev. 30s (bl. 3s, si. 27s).
3104 *M 7151.6*	-Toyama Sinka, E. inner breakwater.	36° 46.6′ N 137° 07.1′ E	**Iso.G.** period 4s	40 **12**	4	White round concrete tower; 33.	
3108 *M 7148*	-Toyama Ko, E. breakwater, head.	36° 45.9′ N 137° 13.7′ E	**Fl.(2)G.** period 5s	49 **15**	5	White round concrete tower; 49.	
	TOYAMA WAN:						
3112 *M 7149*	-Toyama Ko, W. breakwater.	36° 45.9′ N 137° 13.5′ E	**Fl.(2)R.** period 5s	36 **11**	7	Red round concrete tower; 32.	
3116 *M 7147*	-Mizuhashi Ko, W. training wall.	36° 45.5′ N 137° 18.0′ E	**Fl.G.** period 3s	39 **12**	5	White round concrete tower; 31.	
3120 *M 7145*	-Namericawa Ko, breakwater.	36° 46.6′ N 137° 20.6′ E	**Fl.(2)G.** period 6s	43 **13**	5	White tower; 31.	
	-Uozu (Uwotsu) Ko:						
3124 *M 7144.4*	--N. auxiliary breakwater, head.	36° 48.5′ N 137° 23.4′ E	**Fl.(2)G.** period 5s	39 **12**	5	White column; 30.	
3128 *M 7144.5*	--S. auxiliary breakwater, head.	36° 48.5′ N 137° 23.5′ E	**Fl.(2)R.** period 5s	39 **12**	3	Red tower; 31.	
3132 *M 7142*	--N. breakwater, head.	36° 49.2′ N 137° 23.5′ E	**Fl.G.** period 4s	43 **13**	7	White tower; 31.	
3136 *M 7144*	--S. breakwater, head.	36° 49.2′ N 137° 23.5′ E	**Fl.R.** period 3s	30 **9**	4	Red octagonal concrete tower; 22.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			JAPAN-HONSHU-NORTHWEST COAST				
3140 *M 7137.6*	-Kyoden Ko, N. breakwater, head.	36° 51.1′ N 137° 24.6′ E	**Fl.(2)G.** period 7s	43 **13**	5	White tower; 33.	
3144 *M 7137.2*	-Kurube Ko, N. breakwater.	36° 53.4′ N 137° 24.9′ E	**F.Fl.G.** period 5s	43 **13**	F. 2 Fl. 5	White tower; 30.	
3148 *M 7137*	**-Ikuji Hana.**	36° 53.9′ N 137° 24.7′ E	**Fl.W.** period 10s	108 **33**	**16**	White round concrete tower, black bands; 98.	Visible 334°-203°.
3152 *M 7136.9*	Nyuzen Ko.	36° 55.5′ N 137° 25.6′ E	**Fl.G.** period 3s	56 **17**	5	White round concrete tower; 31.	
3156 *M 7136.7*	Miyazaki Hana.	36° 58.2′ N 137° 35.2′ E	**Fl.(2)W.** period 11s	358 **109**	12	White round concrete tower; 49.	F.W. Illuminates rocks 1.1km NNE.
3160 *M 7136.8*	Miyazaki Ko, E. breakwater.	36° 58.4′ N 137° 35.1′ E	**Iso.G.** period 4s	43 **13**	5	White tower; 30.	
3164 *M 7136.6*	Himekawa Ko, E. breakwater, head.	37° 03.1′ N 137° 51.0′ E	**Fl.R.** period 3s	56 **17**	4	Red tower; 43.	
3168 *M 7135*	-No 2 breakwater, head.	37° 06.7′ N 137° 59.9′ E	**Fl.(2)R.** period 7s	49 **15**	3	Red tower; 18.	
3170 *M 7136.5*	Uramoto Ko.	37° 04.4′ N 137° 55.8′ E	**Fl.G.** period 3s	43 **13**	5	White round concrete tower; 30.	
3172 *M 7134*	No Ko.	37° 06.5′ N 137° 59.6′ E	**Fl.W.** period 4s	95 **29**	7	White round concrete tower; 27.	
3180 *M 7132.8*	Tsutsuishi Ko, U Shima.	37° 08.0′ N 138° 03.2′ E	**Fl.R.** period 3s	46 **14**	3	Red round concrete tower; 18.	
3184 *M 7133*	Tsutsuisi Ko, Senzoku Sima.	37° 08.2′ N 138° 03.0′ E	**F.Fl.G.** period 5s	52 **16**	F. 2 Fl. 5	White round concrete tower; 27.	
3188 *M 7132.5*	Nadachi Ko.	37° 10.2′ N 138° 05.2′ E	**Iso.R.** period 6s	43 **13**	3	Red tower; 27.	
3192 *M 7132*	**Torigakubi Misaki.**	37° 10.2′ N 138° 05.8′ E	**Fl.W.** period 5s	269 **82**	**23**	White concrete tower; 39.	Visible 025°-273°.
3196 *M 7128*	-Seki Kawa, E. training wall.	37° 11.3′ N 138° 14.6′ E	**Fl.R.** period 3s	46 **14**	4	Red round concrete tower; 31.	
3200 *M 7125*	-W. breakwater.	37° 13.7′ N 138° 16.5′ E	**Fl.R.** period 4s	59 **18**	7	Red tower; 62.	
3202 *M 7125.5*	-Breakwater, head.	37° 12.0′ N 138° 15.6′ E	**Fl.G.** period 4s	36 **11**	4	White tower; 31.	
3214 *M 7102.7*	-W.	37° 48.2′ N 138° 15.1′ E	**Fl.(2)G.** period 6s	52 **16**	3	White tower; 30.	
3216 *M 7103*	**-Sawasaki Hana.**	37° 49.3′ N 138° 12.3′ E	**Fl.(2)W.** period 30s	134 **41**	**18**	White octagonal concrete tower; 79.	Visible 314°-201°.
3218 *M 7103.08*	--Approach.	37° 49.0′ N 138° 13.0′ E	**Fl.R.** period 3s	23 **7**	2	Red tower; 16.	
3220 *M 7103.3*	-NE. of Sawasaki.	37° 50.2′ N 138° 13.5′ E	**Fl.R.** period 3s	42 **13**	3	Red round concrete tower; 32.	
3222 *M 7103.52*	-Sawane Ko, breakwater.	38° 00.3′ N 138° 17.1′ E	**Fl.G.** period 4s	22 **7**	3	White tower; 19.	
3224 *M 7103.5*	Mano Wan, breakwater.	37° 59.4′ N 138° 17.1′ E	**Fl.(2)G.** period 6s	33 **10**	3	White tower; 31.	
3226 *M 7103.51*	-Mano Ko, breakwater.	37° 57.6′ N 138° 20.1′ E	**Fl.R.** period 3s	28 **9**	4	Red tower; 20.	
3228 *M 7103.6*	-Hutami Ko, breakwater, head.	37° 58.6′ N 138° 16.0′ E	**Fl.G.** period 3s	33 **10**	5	White tower; 27.	
3232 *M 7104*	-Daiga Hana.	37° 57.9′ N 138° 15.2′ E	**Fl.W.** period 5s	151 **46**	12	White round concrete tower; 52.	Auxiliary light shows F.W. over Okino Eguri.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			JAPAN-HONSHU-NORTHWEST COAST				
3236 *M 7104.4*	-Inakuzira Ko, breakwater.	37° 58.2′ N 138° 14.3′ E	**Fl.G.** period 3s	52 **16**	3	White round concrete tower; 31.	
3240 *M 7104.5*	-Nagate Misaki.	37° 59.0′ N 138° 13.6′ E	**Fl.W.** period 4s	33 **10**	7	White tower; 31.	
3244 *M 7104.7*	Mano Wan.	37° 59.7′ N 138° 14.0′ E	**Fl.R.** period 3s	42 **13**	3	Red tower; 31.	
3248 *M 7105*	Itiri Sima.	38° 02.2′ N 138° 13.1′ E	**Fl.(2)W.** period 5s	66 **20**	5	ISOLATED DANGER BRB, beacon, topmark; 56.	
3252 *M 7106.4*	-Himezu Ko, breakwater.	38° 04.7′ N 138° 14.5′ E	**Iso.G.** period 6s	62 **19**	5	White round concrete tower; 31.	
3256 *M 7106*	**-O Saki.**	38° 06.0′ N 138° 15.0′ E	**Fl.W.** period 6s	102 **31**	**16**	White round concrete tower; 33.	Visible 021°-213°.
3258 *M 7106.2*	Kitaebisu Ko.	38° 05.7′ N 138° 15.2′ E	**Fl.G.** period 3s	43 **13**	3	White tower; 31.	
3260 *M 7107*	-Nyu Saki.	38° 11.8′ N 138° 19.8′ E	**Oc.(2)W.** period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	184 **56**	12	White round concrete tower; 39.	F.W. spotlight illuminates shoal 0.8M NW.
3264 *M 7107.4*	-Takati Ko, breakwater.	38° 12.1′ N 138° 20.4′ E	**Fl.R.** period 3s	46 **14**	5	Red tower; 28.	
3268 *M 7107.6*	-Seki Misaki.	38° 15.0′ N 138° 24.0′ E	**Iso.W.** period 6s	476 **145**	8	White round concrete tower; 33.	Visible 048°-213°.
3272 *M 7092*	**-Hajiki Saki.**	38° 19.9′ N 138° 30.7′ E	**Fl.(3)W.** period 30s	242 **74**	**22**	White octagonal concrete tower; 62.	Visible 091°-357°. Obscured by summit of Futatsugame Yama 093°-097°.
3276 *M 7092.4*	-Washizaki, E. breakwater, head.	38° 19.0′ N 138° 31.2′ E	**Fl.R.** period 3s	43 **13**	5	Red round concrete tower; 15.	
3280 *M 7092.6*	Miyano Saki.	38° 12.3′ N 138° 29.5′ E	**Iso.W.** period 6s	141 **43**	8	White tower; 33.	
3284 *M 7093*	-Ryotsu Wan, approach.	38° 08.4′ N 138° 27.0′ E	**Fl.(2)R.** period 5s	43 **13**	5	Red round concrete tower; 28.	
3286 *M 7093.5*	-Hayosi Ko, breakwater.	38° 07.0′ N 138° 26.5′ E	**Fl.R.** period 3s	25 **8**	2	Red tower; 16.	
3288 *M 7095*	-Ryostu Ko.	38° 05.4′ N 138° 26.4′ E	**Fl.(2)R.** period 5s	43 **13**	5	Red tower; 28.	
3290 *M 7094.4*	-Breakwater, N. head.	38° 05.4′ N 138° 26.3′ E	**Fl.G.** period 3s	30 **9**	3	White tower; 18.	
3292 *M 7094*	-Ryotsu Wan, breakwater.	38° 04.8′ N 138° 27.0′ E	**Fl.R.** period 4s	62 **19**	7	Red concrete tower; 52.	
3296 *M 7096*	**-Hime Saki.**	38° 05.2′ N 138° 33.8′ E	**Fl.W.** period 6s	138 **42**	**18**	White concrete tower; 46.	Visible 079°-310°. Obscured within 2 miles between 301°-310° by Tarikaki Hana SE. of lighthouse.
3300 *M 7096.5*	-Hime Saki, S. side.	38° 04.5′ N 138° 34.4′ E	**Fl.(2)R.** period 5s	59 **18**	5	Red round concrete tower; 31.	
3304 *M 7097*	Joga Hana.	38° 01.3′ N 138° 33.1′ E	**Fl.(2)W.** period 6s	105 **32**	7	White square concrete tower; 33.	
3308 *M 7098*	-Kono se.	37° 55.2′ N 138° 30.0′ E	**Iso.W.** period 6s	75 **23**	14	White round concrete tower; 72.	Visible 177°-071°.
3310 *M 7099*	--Breakwater, head.	37° 54.7′ N 138° 29.1′ E	**Fl.G.** period 5s	26 **8**	3	White round concrete tower; 16.	
3312 *M 7100.2*	-Akadomari Ko, breakwater, head.	37° 52.1′ N 138° 25.2′ E	**Fl.(2)G.** period 7s	39 **12**	7	White framework tower; 31.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			JAPAN-HONSHU-NORTHWEST COAST				
3315 *M 7101.5*	-Hamito Ko, breakwater.	37° 49.3′ N 138° 18.8′ E	**Fl.G.** period 5s	27 **8**	3	White tower; 21.	
3316 *M 7102*	-Ogi Ko, breakwater.	37° 48.8′ N 138° 17.7′ E	**Fl.G.** period 3s	43 **13**	7	White round concrete tower; 33.	
3320 *M 7102.5*	--Utino Ma, breakwater.	37° 48.7′ N 138° 16.4′ E	**Fl.G.** period 4s	39 **12**	3	White round concrete structure; 32.	
3324 *M 7120*	Kashiwazaki Ko, W. breakwater.	37° 22.8′ N 138° 32.8′ E	**Fl.R.** period 3s	43 **13**	7	Red concrete tower; 31.	
3326 *M 7119.5*	Kirawa Nuclear Power Station, breakwater, head.	37° 26.3′ N 138° 35.4′ E	**Fl.(2)R.** period 7s	52 **16**	7	Red tower; 36.	
3328 *M 7119*	**Kannon Zaki, Shilya Hana.**	37° 29.0′ N 138° 38.0′ E	**Fl.W.** period 15s	210 **64**	**21**	White concrete tower; 56.	Visible 035°-209°.
3332 *M 7118.4*	Izumosaki Ko, breakwater.	37° 32.5′ N 138° 40.9′ E	**Fl.(2)R.** period 5s	42 **13**	3	Red tower; 33.	
3340 *M 7118*	Teradomari Ko, breakwater.	37° 38.9′ N 138° 45.4′ E	**Fl.R.** period 4s	46 **14**	7	Red tower; 31.	
3344 *M 7117.4*	Maze Ko, breakwater.	37° 44.6′ N 138° 47.5′ E	**Fl.(2)R.** period 6s	46 **14**	5	Red tower; 28.	
3348 *M 7117*	**Kakuda Misaki.**	37° 47.0′ N 138° 49.0′ E	**Fl.W.** period 8s	164 **50**	**19**	White tower; 43.	Visible 020°-243°.
3350 *M 7116.8*	Etigo Sinkawa Ko, breakwater.	37° 52.0′ N 138° 55.4′ E	**Fl.G.** period 3s	33 **10**	5	White tower; 18.	
	NIGATO KO:						
3352 *M 7110.5*	-No 2 W. breakwater, N. head.	37° 58.2′ N 139° 04.4′ E	**Fl.R.** period 3s	59 **18**	7	Red tower; 36.	
3356 *M 7111.2*	-W. breakwater, elbow.	37° 57.5′ N 139° 04.1′ E	**Fl.R.** period 6s	79 **24**	7	Red round concrete tower; 72.	
3360 *M 7112*	-E. breakwater, about 366 meters 152° from elbow of W. breakwater.	37° 57.3′ N 139° 04.2′ E	**Fl.(2)G.** period 7s	39 **12**	4	White round concrete tower; 32.	
3370 *M 7116.5*	-Outer harbor observation tower.	38° 00.2′ N 139° 07.6′ E	**Mo.(U)W.** period 10s	59 **18**	4		**Radar reflector.**
3372 *M 7113*	-Wharf A, N. head.	37° 56.9′ N 139° 04.1′ E	**Fl.W.** period 3s	23 **7**	3	White tower; 18.	
3376 *M 7116*	-AVIATION LIGHT.	37° 56.8′ N 139° 06.9′ E	**Al.Fl.W.G.** period 4.3s	69 **21**	W. 3 G. 1	Metal framework tower.	
3380 *M 7109*	-Aqa-no-Kawa Guchi.	37° 57.0′ N 139° 08.0′ E	**Iso.W.** period 6s	52 **16**	12	White round concrete tower; 52.	
3384 *M 7110*	Matsuhama Ko.	37° 57.4′ N 139° 08.1′ E	**Fl.G.** period 3s	19 **6**	3	White round concrete tower; 16.	
3388 *M 7108.2*	-E. district, E. outer breakwater, head.	38° 00.8′ N 139° 14.2′ E	**Fl.G.** period 3s	39 **12**	3	White tower; 31.	
3392 *M 7108.6*	-Sea Berth No 3.	38° 00.1′ N 139° 13.5′ E	**Mo.(U)W.** period 10s	45 **14**	10		
3396 *M 7108.4*	-W. breakwater.	38° 01.1′ N 139° 13.9′ E	**Fl.R.** period 3s	39 **12**	5	Red framework tower; 43.	
3405 *M 7090.7*	-SE. breakwater.	38° 11.0′ N 139° 25.0′ E	**Fl.G.** period 3s	49 **15**	5	White tower; 33.	
3406 *M 7090.8*	-Oil platform.	38° 07.8′ N 139° 20.5′ E	**Mo.(U)W.** period 15s	62 **19**	10		**Horn.**
3408 *M 7090.5*	Iwafune Ko, groin.	38° 11.3′ N 139° 25.7′ E	**Fl.R.** period 3s	36 **11**	3	Red round concrete structure; 31.	

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			JAPAN-HONSHU-NORTHWEST COAST				
3412 *M 7090*	Iwahune Ko.	38° 11.7′ N 139° 26.1′ E	**Iso.W.** period 6s	144 **44**	12	White tower; 39.	
3416 *M 7089*	**Awa Shima.**	38° 27.1′ N 139° 14.5′ E	**Fl.W.** period 10s	899 **274**	**23**	White framework tower; 36.	
3420 *M 7089.5*	Awasima Ko, E. breakwater.	38° 28.1′ N 139° 15.4′ E	**Fl.G.** period 4s	43 **13**	5	White tower; 31.	
3424 *M 7088.8*	Nezugaseki Ko, SSW.	38° 29.0′ N 139° 30.7′ E	**Fl.(2)G.** period 6s	49 **15**	5	White round concrete tower; 30.	
3428 *M 7088*	Nezugaseki Ko, Benten Shima, SW. head.	38° 33.2′ N 139° 32.6′ E	**Fl.(2)W.** period 10s	70 **21**	12	White round concrete tower; 46.	
3432 *M 7088.4*	Nezugaseki Ko, W. breakwater.	38° 33.7′ N 139° 32.5′ E	**F.Fl.R.** period 5s	49 **15**	F. 2 Fl. 5	Red round concrete tower; 33.	
3436 *M 7088.6*	-E. breakwater.	38° 33.7′ N 139° 32.6′ E	**Iso.G.** period 6s	43 **13**	9	White round concrete tower; 31.	
3440 *M 7087.8*	Hato Saki.	38° 41.0′ N 139° 37.9′ E	**Iso.W.** period 6s	131 **40**	12	White tower; 33.	
3444 *M 7087.9*	Ryotoan Jima.	38° 41.0′ N 139° 37.0′ E	**Fl.(2)W.** period 5s	52 **16**	5	ISOLATED DANGER BRB, beacon, topmark; 49.	
3456 *M 7087.4*	Yura Ko, W. breakwater.	38° 43.2′ N 139° 40.6′ E	**Fl.R.** period 3s	39 **12**	3	Red round concrete tower; 33.	
3456.1 *M 7087.35*	-Outer breakwater.	38° 43.3′ N 139° 40.5′ E	**Fl.(2)R.** period 5s	52 **16**	3	Red tower; 28.	
3460 *M 7087*	Arasaki.	38° 45.8′ N 139° 43.4′ E	**Fl.W.** period 5s	112 **34**	7	White round concrete tower; 39.	
3464 *M 7087.1*	-N. breakwater.	38° 46.2′ N 139° 43.6′ E	**Iso.R.** period 6s	52 **16**	8	Red tower; 33.	
3470 *M 7086*	Syonai, AVIATION LIGHT.	38° 48.9′ N 139° 47.5′ E	**Al.Fl.W.G.** period 4.3s	171 **52**	W. 7 G. 4		Occasional.
	SAKATA KO:						
3472 *M 7082*	**-Sakata.**	38° 56.8′ N 139° 49.0′ E	**Fl.W.** period 8s	135 **41**	**18**	White tower; 98.	Visible 018°-198°. **DGPS Station** about 285 yards NE.
3476 *M 7082.5*	-Groin, head.	38° 56.9′ N 139° 48.9′ E	**Fl.R.** period 4s	46 **14**	3	Red metal framework tower; 33.	
3484 *M 7083*	-N. breakwater, head.	38° 55.6′ N 139° 48.4′ E	**Fl.(2)G.** period 7s	62 **19**	5	White round concrete tower; 46.	Visible 293°-219°.
3488 *M 7085*	Wave observation tower.	39° 00.5′ N 139° 46.7′ E	**Mo.(U)W.** period 15s	64 **20**	5		
3492 *M 7080*	Fukura Ko, S. breakwater.	39° 04.2′ N 139° 51.8′ E	**Fl.G.** period 4s	43 **13**	7	White tower; 28.	
3496 *M 7077*	Ugo Misaki.	39° 07.1′ N 139° 52.2′ E	**Fl.(2)W.** period 7s	223 **68**	7	White tower; 33.	
3500 *M 7077.4*	Kosagawa Ko, No 1 breakwater.	39° 07.3′ N 139° 52.5′ E	**Fl.R.** period 4s	39 **12**	3	Red tower; 30.	
3504 *M 7076*	**Tobi Shima.**	39° 12.0′ N 139° 33.4′ E	**Fl.W.** period 10s	269 **82**	**20**	White round concrete tower; 52.	
3506 *M 7076.1*	Hoki, breakwater, SE. head.	39° 12.3′ N 139° 33.5′ E	**Fl.R.** period 5s	36 **11**	4	Red tower; 19.	
3508 *M 7076.3*	Tobi Shima Ko, middle breakwater.	39° 11.1′ N 139° 32.9′ E	**Fl.R.** period 3s	43 **13**	3	Red round concrete tower; 28.	
3512 *M 7076.2*	Tobi Shima Ko, S. breakwater, head.	39° 11.1′ N 139° 33.1′ E	**Fl.G.** period 3s	49 **15**	7	White round concrete tower; 28.	

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			JAPAN-HONSHU-NORTHWEST COAST				
3513 *M 7075.5*	-S. end.	39° 11.2′ N 139° 32.5′ E	**Fl.(3)W.** period 17s	92 **28**	12	White tower; 24.	
3516 *M 7075*	Kisakata Ko, S. breakwater, head.	39° 12.1′ N 139° 53.8′ E	**Fl.G.** period 3s	32 **10**	3	White tower; 26.	
3520 *M 7072*	Konoura Ko, on hill.	39° 15.4′ N 139° 54.7′ E	**Fl.W.** period 4s	59 **18**	13	White square concrete tower; 36.	
3524 *M 7072.4*	-N. breakwater.	39° 15.2′ N 139° 54.5′ E	**Fl.(2)G.** period 6s	46 **14**	5	White tower; 28.	
	HIRASAWA KO:						
3528 *M 7070*	-E. breakwater, head.	39° 17.8′ N 139° 57.6′ E	**Fl.G.** period 4s	28 **8**	3	White tower; 15.	
3540 *M 7069.6*	-Breakwater, head.	39° 23.5′ N 140° 00.6′ E	**Fl.G.** period 3s	46 **14**	7	White concrete column; 33.	
3544 *M 7069*	Matsugasaki.	39° 30.2′ N 140° 02.8′ E	**Fl.W.** period 5s	82 **25**	12	White round concrete tower; 36.	
3548	Akita Ko.	39° 46.3′ N 140° 00.9′ E	**Fl.(2)R.** period 5s	62 **19**	7	Red tower; 52.	
3552 *M 7066*	Akita Ko, S. breakwater, inner head.	39° 45.6′ N 140° 02.4′ E	**Fl.R.** period 5s	49 **15**	5	Red round concrete tower; 36.	
3556 *M 7067*	Akita Ko, E. inner breakwater.	39° 46.1′ N 140° 01.7′ E	**Iso.G.** period 6s	42 **13**	5	White round concrete tower; 29.	
3560 *M 7061*	Omnagawa.	39° 51.5′ N 139° 49.2′ E	**Fl.W.R.** period 4s	161 **49**	12	White concrete tower, red bands; 62.	R. 255°-299°, W.-089°.
3562 *M 7061.4*	Hunagawa, Sea Berth.	39° 51.4′ N 139° 51.6′ E	**Mo.(U)W.** period 15s	102 **31**	9		Mo.(U)W. 15s 7M 270 meters NW. and 230 meters SSE. **Horn:** Mo.(U) 30s. **Radar reflector.**
3564 *M 7062*	Funakawa, S. breakwater, head.	39° 52.5′ N 139° 51.9′ E	**Fl.G.** period 4s	49 **15**	3	White round concrete tower; 46.	
3568 *M 7063.5*	-Asiyawa, S. breakwater.	39° 52.7′ N 139° 51.4′ E	**Fl.R.** period 3s	36 **11**	3	Red round concrete tower; 31.	
3572 *M 7063.4*	--N. breakwater.	39° 52.9′ N 139° 51.3′ E	**Fl.(2)G.** period 6s	23 **7**	6	White tower; 19.	
3574 *M 7062.7*	-Minami-Hirasawa, breakwater.	39° 51.2′ N 139° 51.7′ E	**Fl.G.** period 3s	52 **16**	8	White tower; 36.	
3576 *M 7063.3*	-Hunagawa Kanegawa, breakwater, S. head.	39° 52.9′ N 139° 51.4′ E	**Fl.(2)R.** period 6s	28 **9**	4	Red tower; 19.	
3580 *M 7064*	Wakimoto Ko, breakwater.	39° 54.1′ N 139° 53.6′ E	**Fl.(2)G.** period 6s	30 **9**	3	White tower; 18.	
3584 *M 7060*	Tsubaki Ko, W. breakwater.	39° 51.9′ N 139° 46.9′ E	**F.Fl.G.** period 5s	39 **12**	F. 3 Fl. 7	White round concrete tower; 32.	
3588 *M 7059.6*	-Tateyama Saki.	39° 51.6′ N 139° 46.4′ E	**F.W.**	157 **48**		White square concrete tower; 33.	Illuminates beacon on Mituguri Shima 850 meters SE.
3592 *M 7059.5*	Shioga Misaki.	39° 51.5′ N 139° 45.4′ E	**Fl.W.** period 3s	59 **18**	13	White tower; 31.	
3596 *M 7058.9*	Toga Ko, breakwater.	39° 57.1′ N 139° 42.4′ E	**Fl.(2)R.** period 6s 2 fl. 2s, ec. 4s	49 **15**	5	Red round concrete tower; 36.	
3600 *M 7058.8*	-S. side, on island.	39° 56.8′ N 139° 42.1′ E	**Fl.W.** period 5s	69 **21**	5	White column; 36.	

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3604 *M 7058*	**Nyudo Saki.**	40° 00.3′ N 139° 42.1′ E	**Fl.W.** period 15s	187 **57**	**20**	White concrete tower, black bands; 92.	Visible 010°-293°. F.W. illuminates milepost on Mizu Shima 1,100 meters NNW. Storm signals.
3608 *M 7057.4*	Yunosiri Ko.	39° 58.6′ N 139° 45.1′ E	**Fl.R.** period 4s	39 **12**	3	Red tower; 36.	
3612 *M 7057*	Kitaura Ko, breakwater.	39° 57.8′ N 139° 47.3′ E	**Fl.(2)R.** period 6s	36 **11**	5	Red tower; 28.	F.W. spotlight illuminates E. head of breakwater 120 meters NE.
3620 *M 7057.2*	-Kitaura Ko, detached breakwater, E. head.	39° 57.6′ N 139° 47.6′ E	**Fl.R.** period 3s	39 **12**	3	Red tower; 36.	
3622 *M 7056.3*	Nosiro Ko, breakwater.	40° 12.1′ N 139° 58.7′ E	**Fl.(2)R.** period 6s	43 **13**	5	Red tower; 30.	
3624 *M 7056*	Noshiro Minato, Yoneshiro Gawa entrance.	40° 12.8′ N 139° 59.7′ E	**Fl.R.** period 3s	46 **14**	3	Red round concrete tower; 36.	
3628 *M 7055.9*	Hachirmori, No 1 breakwater.	40° 22.4′ N 140° 00.0′ E	**Fl.G.** period 3s	49 **15**	4	White tower; 39.	
3632 *M 7055.8*	Iwadate Ko, No 2 breakwater.	40° 23.9′ N 139° 58.4′ E	**F.Fl.G.** period 5s	49 **15**	F. 1 Fl. 3	White tower; 27.	
3636 *M 7055.5*	**Sugo Saki.**	40° 24.9′ N 139° 56.9′ E	**Fl.W.** period 5s	154 **47**	**18**	White square concrete tower; 46.	Visible 318°-146°.
3640 *M 7055.2*	Kyuroku Shima.	40° 32.0′ N 139° 29.9′ E	**Fl.W.** period 8s	66 **20**	7	White round concrete tower; 62.	
3644 *M 7055.1*	Iwasaki Ko, No 2 breakwater.	40° 35.0′ N 139° 54.6′ E	**Fl.G.** period 4s	43 **13**	5	White tower; 31.	
3646 *M 7055.12*	-Inner breakwater.	40° 34.9′ N 139° 55.0′ E	**Fl.(2)G.** period 7s	36 **11**	3	White tower; 18.	
3648 *M 7055.14*	Iwasaki Ko, breakwater.	40° 35.0′ N 139° 52.7′ E	**Fl.G.** period 5s	49 **15**	7	White round concrete tower; 30.	
3652 *M 7055*	**Henashi Saki.**	40° 36.8′ N 139° 51.8′ E	**Fl.W.** period 10s	223 **68**	**21**	White round concrete tower; 79.	
3658 *M 7054.4*	-Breakwater, N. head.	40° 38.9′ N 139° 55.3′ E	**Fl.R.** period 3s	49 **15**	7	Red framework tower; 36.	
3660 *M 7054*	-Outer breakwater, head.	40° 38.8′ N 139° 55.5′ E	**F.Fl.G.** period 6s	39 **12**	F. 2 Fl. 5	White round concrete tower; 36.	
3664 *M 7053.8*	Toriisaki.	40° 44.8′ N 140° 00.0′ E	**Fl.(2)W.** period 8s	89 **27**	7	White round concrete tower, red bands; 33.	
3668 *M 7053.6*	**Odose Saki.**	40° 46.1′ N 140° 03.4′ E	**Fl.W.** period 12s	177 **54**	**15**	White round concrete tower; 43.	
3670 *M 7053.3*	-Approach.	40° 45.2′ N 140° 05.6′ E	**Fl.(2)R.** period 7s	43 **13**	4	Red tower; 19.	
3672 *M 7052*	Azigasawa Ko.	40° 47.2′ N 140° 12.7′ E	**Fl.R.** period 3s	42 **13**	7	Red round concrete tower; 36.	
3674 *M 7052.5*	-NE. breakwater.	40° 46.9′ N 140° 12.8′ E	**Fl.(2)G.** period 6s	29 **9**	4	White tower; 18.	
3676 *M 7053*	E. breakwater.	40° 47.1′ N 140° 12.5′ E	**Fl.G.** period 3s	36 **11**	4	White round concrete tower; 31.	
3680 *M 7048*	Jusan Ko, S. jetty.	41° 02.2′ N 140° 19.2′ E	**Fl.R.** period 3s	32 **10**	5	Red round concrete tower; 21.	
3688 *M 6673*	Kokomari Misaki.	41° 07.5′ N 140° 15.0′ E	**Fl.(2)W.** period 6s	255 **78**	7	White round concrete tower; 43.	
3692 *M 6672*	-N.	41° 08.3′ N 140° 15.4′ E	**Fl.W.** period 4s	292 **89**	13	White round concrete tower; 33.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			JAPAN-HONSHU-NORTHWEST COAST				
3696 *M 6668*	-N. breakwater, head.	41° 08.2′ N 140° 17.8′ E	**Fl.R.** period 3s	42 **13**	7	Red round concrete column; 27.	
3704 *M 6662*	**Tappi Saki.**	41° 15.5′ N 140° 20.6′ E	**Fl.(2)W.** period 20s	390 **119**	**23**	White round concrete tower; 46.	Visible 029°-280°.

Section 3

North and East Coasts of Honshu
Including Nampo Shoto

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			JAPAN-HONSHU-NORTH COAST				
3706 *M 6663*	-Tappi Ko approach.	41° 15.6′ N 140° 20.8′ E	**Iso.R.** period 4s	33 **10**	4	Red tower; 22.	
3707 *M 6662.5*	-E. Southeastward breakwater.	41° 14.2′ N 140° 23.6′ E	**Fl.R.** period 3s	26 **8**	3	Red tower; 16.	
3708 *M 6658*	-Minmaya Ko, breakwater, head.	41° 11.9′ N 140° 26.2′ E	**Fl.R.** period 4s	43 **13**	3	Red tower; 32.	
3712 *M 6657*	Takano Saki.	41° 13.7′ N 140° 32.9′ E	**Iso.W.** period 6s	118 **36**	8	White tower, red bands; 36.	
3714 *M 6657.5*	-Breakwater, head.	41° 13.6′ N 140° 33.7′ E	**Fl.R.** period 3s	36 **11**	3	Red tower; 27.	
3716 *M 6654*	Tairadate, on Myojin Saki, W. side of entrance to Mutsu Kaiwan.	41° 10.5′ N 140° 38.6′ E	**Fl.W.** period 5s	75 **23**	7	White round concrete tower; 75.	Visible 166°-358°.
3720 *M 6656*	-E. breakwater.	41° 09.5′ N 140° 38.5′ E	**Fl.G.** period 3s	31 **9**	3	White round concrete tower; 27.	
3724 *M 6651*	Kaunita Ko, breakwater, head.	41° 02.9′ N 140° 38.8′ E	**Fl.(2)G.** period 6s	43 **13**	5	White round concrete tower; 36.	
3726 *M 6650.7*	Usirogata Ko.	40° 56.0′ N 140° 40.1′ E	**Fl.R.** period 3s	26 **8**	4	Red concrete tower; 19.	
3728 *M 6650.5*	Okunai Ko.	40° 53.5′ N 140° 40.8′ E	**Fl.(2)R.** period 6s	24 **7**	4	Red tower; 19.	
3731 *M 6648*	-Okidate, W. breakwater.	40° 50.9′ N 140° 43.2′ E	**Fl.R.** period 4s	36 **11**	5	Red tower; 31.	
3731.5 *M 6646*	-N. breakwater, N. head.	40° 50.2′ N 140° 44.6′ E	**Fl.G.** period 3s	43 **13**	7	White tower; 39.	
3734 *M 6647.5*	-E. breakwater, W. tower.	40° 50.1′ N 140° 45.0′ E	**Fl.(3)G.** period 12s	36 **11**	4	White round concrete structure; 32.	
3736 *M 6645.5*	-Tutumi Kawa, E. breakwater.	40° 51.3′ N 140° 49.1′ E	**Fl.R.** period 4s	26 **8**	3	Red tower; 16.	
3740 *M 6643.5*	Moura Ko.	40° 56.6′ N 140° 52.2′ E	**Fl.G.** period 4s	39 **12**	3	White round concrete tower; 36.	
3744 *M 6643.2*	Ino Ko.	40° 58.7′ N 140° 52.2′ E	**Fl.R.** period 3s	26 **8**	4	Red tower; 19.	
3760 *M 6643*	O Shima.	41° 01.0′ N 140° 52.3′ E	**Fl.W.** period 7s	138 **42**	7	White round concrete tower; 32.	
3764 *M 6642.5*	Iotasawa, E. breakwater.	40° 59.8′ N 140° 55.0′ E	**Fl.R.** period 4s	39 **12**	3	Red tower; 30.	
3768 *M 6642*	Yasui Saki.	40° 57.7′ N 140° 58.8′ E	**Iso.W.** period 4s	82 **25**	12	White tower; 39.	
3772 *M 6641.7*	Kominato Ko.	40° 57.5′ N 140° 59.0′ E	**Fl.R.** period 3s	22 **7**	3	Red round concrete tower; 16.	
3776 *M 6641.6*	-Breakwater, head.	40° 56.5′ N 140° 58.9′ E	**Fl.R.** period 5s	36 **11**	9	Red tower; 31.	
3778 *M 6641.4*	-Simizugawa Ko, breakwater, S. head.	40° 55.7′ N 141° 01.5′ E	**Fl.R.** period 3s	26 **8**	6	Red tower; 18.	
3780 *M 6641*	Noheji Ko, W. breakwater.	40° 52.6′ N 141° 06.7′ E	**Fl.(2)R.** period 6s	39 **12**	7	Red round concrete tower; 36.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			JAPAN-HONSHU-NORTH COAST				
3788 *M 6641.2*	-Easternmost breakwater, head.	40° 52.5′ N 141° 07.7′ E	**Fl.R.** period 5s	39 **12**	3	Red tower; 31.	
3790 *M 6640.4*	Yokohama Ko, breakwater.	41° 05.2′ N 141° 14.6′ E	**Oc.R.** period 5s lt. 4s, ec. 1s	39 **12**	4	Red tower; 27.	
3800 *M 6640.25*	Hamaokunai Ko, W. breakwater.	41° 12.1′ N 141° 15.5′ E	**Fl.R.** period 3s	30 **9**	4	Red concrete tower; 19.	
3802 *M 6640.2*	Ominato Ko, breakwater, head.	41° 16.5′ N 141° 10.6′ E	**Fl.R.** period 3s	33 **10**	5	Red tower; 27.	
3804 *M 6640*	Kuro Saki.	41° 11.1′ N 141° 03.5′ E	**Fl.W.** period 4s	72 **22**	12	Black tower, white bands; 39.	
3806 *M 6639.5*	Kawauchi Ko, breakwater.	41° 11.8′ N 140° 59.1′ E	**Fl.G.** period 4s	26 **8**	3	White tower; 18.	
3808 *M 6639.6*	Kawauti Wan.	41° 11.3′ N 140° 57.8′ E	**Fl.(2)G.** period 6s	23 **7**	3	White tower; 16.	
3809 *M 6638.4*	Wakinosawa Ko, breakwater.	41° 08.5′ N 140° 49.6′ E	**Fl.R.** period 3s	39 **12**	3	Red round concrete tower; 32.	
3810 *M 6638*	Mutsu Benten Shima.	41° 07.2′ N 140° 48.9′ E	**Fl.(2)W.** period 7s	118 **36**	7	White round concrete tower, black band; 39.	
3811 *M 6637.4*	Usitaki Ko.	41° 17.5′ N 140° 48.0′ E	**Iso.R.** period 6s	40 **12**	4	Red tower; 18.	
3812 *M 6637*	Oyo Jima.	41° 23.9′ N 140° 48.8′ E	**Fl.W.** period 3s	61 **19**	5	White round concrete tower; 33.	
3816 *M 6636.7*	Sai Ko, breakwater.	41° 26.1′ N 140° 51.6′ E	**Fl.(2)R.** period 6s	43 **13**	7	Red tower; 30.	
3818 *M 6636.4*	Okoppe Ko.	41° 29.7′ N 140° 54.2′ E	**Fl.R.** period 3s	33 **10**	3	Red tower; 18.	
3828 *M 6636.3*	Oma Ko, S. approach.	41° 31.8′ N 140° 53.9′ E	**Fl.(2)R.** period 6s	29 **9**	4	Red round concrete tower; 22.	
3828.2 *M 6636*	-W. breakwater.	41° 31.9′ N 140° 54.2′ E	**Fl.R.** period 4s	43 **13**	3	Red tower; 31.	
3828.4 *M 6636.2*	-N. breakwater.	41° 31.9′ N 140° 54.3′ E	**Fl.G.** period 3s	39 **12**	5	White tower; 31.	
3828.6 *M 6634*	-N. approach.	41° 32.1′ N 140° 54.3′ E	**Fl.R.** period 3s	31 **9**	4	Red tower; 18.	
3830 *M 6635*	Genbei Syo.	41° 33.0′ N 140° 54.8′ E	**Fl.(2)W.** period 5s	24 **7**	3	ISOLATED DANGER BRB, beacon, topmark; 21.	
3832 *M 6634.5*	Omasaki.	41° 33.3′ N 140° 54.7′ E	**Fl.(3)W.** period 18s	118 **36**	12	Black tower, white band; 82.	
3833 *M 6635.4*	Sitatehama Ko, breakwater.	41° 32.8′ N 140° 55.3′ E	**Fl.(2)G.** period 6s	33 **10**	3	White tower; 18.	
3834 *M 6633.8*	Oma Saki, SE.	41° 29.4′ N 140° 59.9′ E	**Fl.G.** period 4s	43 **13**	5	White tower; 29.	
3835 *M 6633.6*	Akaiwa Saki.	41° 28.2′ N 141° 05.6′ E	**Fl.R.** period 3s	29 **9**	4	Red concrete structure; 19.	
3836 *M 6633.5*	Ohata Ko, S. of E. breakwater.	41° 24.5′ N 141° 10.6′ E	**F.Fl.R.** period 4s	49 **15**	F. 2 Fl. 5	Red round concrete tower; 33.	
3840 *M 6632*	-E. breakwater.	41° 24.8′ N 141° 10.1′ E	**Fl.G.** period 3s	36 **11**	3	White tower; 30.	
3844 *M 6633*	-N. breakwater.	41° 24.7′ N 141° 10.3′ E	**Iso.R.** period 6s	36 **11**	4	Red round concrete tower; 27.	
3845 *M 6631.4*	Sekinehama Ko.	41° 22.1′ N 141° 14.2′ E	**Dir.W.R.G.**	43 **13**	W. 7 R. 6 G. 6	White tower; 32.	F.G. 255°-258°30′, F.W.-261°30′, F.R.-265°. Reserve light range 0.5M.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			JAPAN-HONSHU-NORTH COAST				
3846 *M 6631.5*	-W. breakwater.	41° 22.2′ N 141° 14.6′ E	**Fl.R.** period 4s	46 **14**	8	Red tower; 31.	
3846.1 *M 6631.8*	-NW. breakwater.	41° 22.3′ N 141° 13.7′ E	**Fl.R.** period 3s	33 **10**	3	Red tower; 16.	
3846.5 *M 6631.6*	-E. breakwater.	41° 22.1′ N 141° 14.4′ E	**Fl.G.** period 4s	46 **14**	8	White tower; 31.	
3847 *M 6631.2*	Mutuiwaya Ko.	41° 23.6′ N 141° 24.8′ E	**Fl.R.** period 3s	29 **9**	4	Red tower; 19.	
3848 *M 6631*	Shiriya Ko, Shiriya Breakwater.	41° 24.7′ N 141° 25.9′ E	**Fl.G.** period 3s	30 **9**	5	White round concrete tower; 23.	
			JAPAN-HONSHU-EAST COAST				
3852 *M 6630*	**Siriya Saki.**	41° 25.8′ N 141° 27.7′ E	**Fl.W.** period 10s	151 **46**	**18**	White round brick tower; 108.	Visible 052°-003°. F.W. spotlight illuminates O Ne 1.06 miles ENE. **DGPS Station.**
	RAMARK						
3856 *M 6628.8*	Kukidono Saki.	41° 23.7′ N 141° 27.4′ E	**Fl.R.** period 3s	43 **13**	3	Red tower; 30.	
3860 *M 6628*	Shiranuka Ko.	41° 07.9′ N 141° 23.7′ E	**Fl.W.** period 4s	125 **38**	13	White tower; 46.	F.W. illuminates breakwater 200 meters NE.
3872 *M 6628.4*	-Shima Breakwater.	41° 08.0′ N 141° 23.7′ E	**Fl.(2)G.** period 6s	36 **11**	3	White tower; 33.	
3878 *M 6627.3*	Mutu Ogawara Ko.	40° 55.6′ N 141° 24.0′ E	**F.Fl.(2)G.** period 7s	52 **16**	F. 2 Fl. 5	White tower; 39.	
3880 *M 6627*	Mutsu Shiogama.	40° 48.3′ N 141° 24.0′ E	**Iso.W.** period 6s	102 **31**	12	White square metal framework tower; 49.	
3884 *M 6625.7*	Oka-Misawa.	40° 40.8′ N 141° 26.4′ E	**Fl.G.** period 3s	43 **13**	7	White tower; 31.	
3888 *M 6626*	Oka-Misawa AVIATION LIGHT.	40° 41.2′ N 141° 21.6′ E	**Al.Fl.(2+1)W.G.** period 10s	230 **70**	W. 8 G. 6	Metal framework tower.	
	HACHINOHE KO:						
3892 *M 6625*	-Hachinohe, AVIATION LIGHT.	40° 32.8′ N 141° 28.3′ E	**Al.Fl.W.G.** period 10s	259 **79**	W. 9 G. 6	Metal framework tower; 141.	
3896 *M 6620*	**-Same Kaku.**	40° 32.4′ N 141° 34.6′ E	**Fl.W.** period 8s	190 **58**	**19**	White round concrete tower; 75.	
3900 *M 6621*	-O Saki.	40° 32.5′ N 141° 34.1′ E	**F.W.**	72 **22**		White round concrete tower; 28.	Illuminates Hinode Iwa about 430 meters NNW.
3904 *M 6624.8*	-N. breakwater, head.	40° 33.5′ N 141° 31.7′ E	**Fl.(2)R.** period 9s	59 **18**	5	Red concrete tower; 52.	
3906 *M 6624.85*	-Detached breakwater, N. end.	40° 33.7′ N 141° 32.1′ E	**Fl.(2)G.** period 6s	56 **17**	6	White tower; 52.	Fl.(2)G. 6s 8m 5M marks N. head of breakwater.
3908 *M 6625.5*	Hatitaro, E. breakwater.	40° 33.1′ N 141° 30.9′ E	**Fl.(2)G.** period 9s 2 fl. 3s, ec. 6s	49 **15**	4	White round concrete tower; 33.	
3916 *M 6624.7*	--W. breakwater, head.	40° 32.3′ N 141° 31.2′ E	**Fl.R.** period 3s	43 **13**	3	Red tower; 30.	Bridge 620 meters SE. marked by F.Y., Iso.G., Iso.W. and Iso.R.
3920 *M 6622*	-N. detached breakwater, W. head.	40° 32.4′ N 141° 32.9′ E	**Fl.G.** period 3s	36 **11**	5	White round concrete tower; 28.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			JAPAN-HONSHU-EAST COAST				
3922 *M 6623.6*	-Aomori, breakwater, S. head.	40° 32.2′ N 141° 32.0′ E	**Fl.R.** period 5s	46 **14**	5	Red tower; 36.	
3924 *M 6623*	-W. breakwater, NE. head.	40° 32.3′ N 141° 32.8′ E	**Fl.R.** period 3s	49 **15**	4	Red metal framework tower; 33.	
3928 *M 6623.2*	-Middle breakwater, W. head.	40° 32.3′ N 141° 32.0′ E	**Fl.G.** period 5s	43 **13**	4	White framework tower; 32.	
3936 *M 6624*	-Inner breakwater, N. head.	40° 32.1′ N 141° 33.1′ E	**Fl.(2)R.** period 6s	39 **12**	3	Red tower; 33.	
3940 *M 6624.4*	-Kabu Shima Jetty.	40° 32.2′ N 141° 33.3′ E	**Fl.G.** period 6s	33 **10**	3	White tower; 28.	
3941 *M 6619*	Ozya Ko.	40° 28.4′ N 141° 39.1′ E	**Fl.R.** period 3s	33 **10**	3	Red tower; 18.	
3942 *M 6618.4*	Kominato Ko.	40° 27.3′ N 141° 40.4′ E	**Iso.G.** period 4s	39 **12**	4	White tower; 18.	
3944 *M 6618*	Hajikami.	40° 27.1′ N 141° 40.8′ E	**Fl.W.** period 4s	72 **22**	7	White tower; 36.	
3948 *M 6615*	Taneti Ko, E. breakwater.	40° 24.4′ N 141° 43.4′ E	**Fl.(2)R.** period 6s	43 **13**	3	Red tower; 31.	
3952 *M 6614*	Taneti Ko.	40° 24.0′ N 141° 43.1′ E	**Dir.W.R.G.**	53 **16**	W. 13 R. 10 G. 11	White round concrete tower; 46.	F.R. 255°30′-257°30′, F.W.-261°30′, F.G.-263°30′. Identification light Q.Y.
3956 *M 6612*	Yagi Ko, entrance Range, front.	40° 20.8′ N 141° 45.7′ E	**F.G.**	95 **29**	5	White round concrete tower, white triangular daymark point up; 24.	
3960 *M 6612.1*	-Rear, 150 meters 236°42′ from front.	40° 20.8′ N 141° 45.5′ E	**F.G.**	154 **47**	5	White round concrete tower, white triangular daymark point up; 36.	
3964 *M 6613*	Yagi Minami Ko.	40° 20.9′ N 141° 46.1′ E	**Iso.G.** period 6s	26 **8**	4	White tower; 19.	
3968 *M 6613.3*	-Yagi Ko.	40° 20.8′ N 141° 46.4′ E	**Fl.R.** period 3s	46 **14**	5	Red tower; 33.	
3972 *M 6608*	Ushi Shima.	40° 13.2′ N 141° 50.1′ E	**Iso.W.** period 6s	233 **71**	12	White tower; 36.	Auxiliary F.W. illuminates reef about 0.7 mile SE.
3976 *M 6610*	-N. breakwater.	40° 11.4′ N 141° 48.2′ E	**Fl.(2)R.** period 6s	43 **13**	3	Red tower; 36.	
3978 *M 6610.3*	-Outer breakwater.	40° 11.4′ N 141° 48.8′ E	**Fl.R.** period 3s	46 **14**	5	Red tower; 26.	
3980 *M 6609*	-S. breakwater.	40° 11.1′ N 141° 48.3′ E	**F.Fl.G.** period 6s	49 **15**	F. 2 Fl. 5	White tower; 33.	
3982 *M 6610.6*	Kuzi Ko, breakwater, head.	40° 10.2′ N 141° 50.9′ E	**Fl.G.** period 3s	36 **11**	3	White tower; 21.	
3983 *M 6607.8*	Ritutyu Kuki Ko.	40° 07.9′ N 141° 51.3′ E	**Fl.(2)R.** period 6s	36 **11**	4	Red concrete tower; 19.	
3984 *M 6607.5*	Noda Wan.	40° 06.9′ N 141° 50.1′ E	**F.Fl.R.** period 3s	43 **13**	F. 1 Fl. 3	Red tower; 31.	
3986 *M 6607.4*	Horinai Ko.	40° 03.2′ N 141° 51.7′ E	**Fl.(2)R.** period 6s	49 **15**	4	Red tower; 33.	
3988 *M 6607*	Otanabe Ko, breakwater, head.	40° 00.6′ N 141° 54.7′ E	**Fl.G.** period 3s	46 **14**	3	White tower; 31.	
3992 *M 6606*	**Ma (Kuro) Saki.**	40° 00.6′ N 141° 56.0′ E	**Fl.W.** period 5s	469 **143**	**19**	White tower; 39.	Visible 082°-332°.
3996 *M 6605.8*	Rikutyu, Benten Zaki.	39° 56.9′ N 141° 57.6′ E	**Fl.(2)W.** period 7s	321 **98**	7	White round concrete tower, red bands; 33.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			JAPAN-HONSHU-EAST COAST				
4000 *M 6605.4*	Shimano Koshi, breakwater.	39° 55.0′ N 141° 56.6′ E	**Fl.G.** period 3s	46 **14**	5	White tower; 31.	
4006 *M 6605.25*	-SE.	39° 49.8′ N 141° 58.8′ E	**Iso.R.** period 3s	39 **12**	7	Red round structure; 22.	*Temporarily extinguished.*
4008 *M 6605*	Ma Saki.	39° 45.1′ N 141° 59.9′ E	**Fl.(2)W.** period 10s	259 **79**	7	White round concrete tower; 31.	
4012 *M 6604.5*	-Taro Ko.	39° 43.7′ N 141° 58.8′ E	**Fl.R.** period 3s	46 **14**	5	Red tower; 29.	
4014 *M 6604.2*	Yado Ko.	39° 41.4′ N 141° 58.4′ E	**Fl.(2)G.** period 6s	46 **14**	3	White round concrete tower; 33.	*Temporarily extinguished.*
4015 *M 6604.1*	Takahama, breakwater, head.	39° 36.1′ N 141° 57.2′ E	**Fl.R.** period 5s	23 **7**	4	Red tower; 15.	
4016 *M 6604*	-Kanbayasi, breakwater, S. head.	39° 37.1′ N 141° 58.1′ E	**Fl.R.** period 3s	30 **9**	5	Red framework tower; 29.	
4018 *M 6603.5*	Miyako Ko, S. breakwater, head.	39° 37.7′ N 141° 58.6′ E	**Fl.(2)R.** period 6s	39 **12**	5	Red tower; 28.	
4020 *M 6603*	Miyako Wan, breakwater, head.	39° 38.4′ N 141° 58.5′ E	**Fl.R.** period 4s	36 **11**	5	Red tower; 31.	
4024 *M 6602*	Hei Saki.	39° 39.3′ N 142° 01.5′ E	**Fl.W.** period 3s	184 **56**	5	White tower; 33.	
4025 *M 6600*	Otobe Ko.	39° 36.0′ N 142° 01.8′ E	**Fl.G.** period 3s	33 **10**	5	White tower; 33.	
4026 *M 6599*	Omoe Ko.	39° 34.6′ N 142° 01.9′ E	**Fl.R.** period 4s	43 **13**	3	Red round concrete structure; 27.	*Temporarily extinguished.*
4028 *M 6598*	**Todoga Saki.**	39° 32.8′ N 142° 04.3′ E	**Fl.W.** period 15s **F.R.**	190 **58**	**20**	White round concrete tower; 112.	Visible 168°-018°. Storm signals. Visible 342°-353°.
4036 *M 6597.6*	-E. breakwater.	39° 28.8′ N 141° 58.7′ E	**Iso.R.** period 6s	33 **10**	11	Red round concrete structure; 31.	*Temporarily extinguished.*
4040 *M 6596*	Kasano Hana.	39° 28.6′ N 142° 00.7′ E	**Fl.W.** period 4s	36 **11**	5	White tower; 25.	
4044 *M 6597.35*	Yamada, breakwater, head.	39° 27.9′ N 141° 57.5′ E	**F.Fl.G.** period 4s	39 **12**	F. 1 Fl. 3	White round concrete tower; 30.	
4048 *M 6597*	Tarai Shima.	39° 27.4′ N 141° 59.7′ E	**Fl.(2)W.** period 5s	30 **9**	3	ISOLATED DANGER BRB, beacon, topmark; 24.	
4052 *M 6597.3*	Orikasa, N. breakwater.	39° 27.2′ N 141° 57.8′ E	**F.Fl.(2)R.** period 8s	33 **10**	F. 1 Fl. 3	Red tower; 30.	
4056 *M 6597.2*	Oura Ko, breakwater, head.	39° 26.9′ N 142° 00.1′ E	**Fl.G.** period 3s	20 **6**	3	White tower; 15.	
4058 *M 6595.15*	Koyadori Ko.	39° 25.5′ N 142° 00.8′ E	**Fl.R.** period 3s	30 **9**	5	Red tower; 15.	
4060 *M 6595.1*	O Shima.	39° 24.0′ N 141° 59.8′ E	**Fl.W.** period 3s	92 **28**	5	White round concrete tower; 33.	
4064 *M 6595.5*	Benten Shima.	39° 24.6′ N 141° 58.7′ E	**Fl.W.** period 4s	59 **18**	8	White round concrete tower; 36.	
4068 *M 6595.4*	Rikuchu Funakoshi Ko, S. breakwater.	39° 25.1′ N 141° 58.9′ E	**F.Fl.R.** period 5s	36 **11**	F. 1 Fl. 3	Red tower; 27.	*Temporarily extinguished.*
4072 *M 6595.7*	-N. breakwater, head.	39° 25.3′ N 141° 58.7′ E	**Fl.R.** period 3s	36 **11**	3	Red tower; 30.	
4076 *M 6595.2*	Kirikiri Ko, E. breakwater.	39° 22.3′ N 141° 57.2′ E	**Iso.G.** period 6s	31 **9**	11	White round tower; 28.	*Temporarily extinguished.*

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			JAPAN-HONSHU-EAST COAST				
4084 *M 6595*	Otuti Ko.	39° 20.9′ N 141° 55.8′ E	**Fl.R.** period 3s	36 **11**	5	Red tower; 36.	
4088 *M 6595.04*	-S. Breakwater, head.	39° 21.1′ N 141° 55.4′ E	**Fl.(2)G.** period 6s	36 **11**	8	White round concrete structure; 24.	*Temporarily extinguished.*
4092 *M 6594.5*	Shirahama, breakwater, head.	39° 19.8′ N 141° 56.6′ E	**Fl.G.** period 3s	40 **12**	3	White tower; 30.	
4096 *M 6594*	Ohako Saki.	39° 21.0′ N 141° 59.7′ E	**Fl.(4)W.** period 15s	233 **71**	7	White tower; 30.	
4098 *M 6593.3*	Kuwanohama.	39° 18.5′ N 141° 54.4′ E	**Fl.(2)R.** period 6s	26 **8**	5	Red tower; 15.	
4100 *M 6593*	Naka Ne, on rock.	39° 18.2′ N 141° 54.1′ E	**Fl.(2)W.** period 5s	36 **11**	3	ISOLATED DANGER BRB, beacon, topmark; 33.	
4104 *M 6593.2*	Ryoishi Ko, breakwater.	39° 18.4′ N 141° 53.5′ E	**F.Fl.G.** period 5s	31 **9**	F. 2 Fl. 5	White tower; 16.	
	KAMAISHI WAN:						
4108 *M 6589.25*	-Kamaishi Ko.	39° 15.5′ N 141° 55.9′ E	**Fl.(2)R.** period 6s	52 **16**	8	Red structure; 33.	*Temporarily extinguished.*
4113 *M 6589.3*	-S. breakwater, N. head.	39° 15.4′ N 141° 55.9′ E	**Fl.G.** period 3s	33 **10**	3	White tower; 16.	
4116 *M 6592*	-N. breakwater, S. head.	39° 16.2′ N 141° 53.8′ E	**Iso.G.** period 6s	23 **7**	5	White tower; 16.	
4128 *M 6589.8*	-Heida Ko, N. breakwater, head.	39° 15.0′ N 141° 53.8′ E	**Fl.R.** period 3s	28 **8**	4	Red tower; 15.	
4132 *M 6589.4*	-Shirahama, breakwater.	39° 14.4′ N 141° 55.2′ E	**Fl.G.** period 4s	39 **12**	3	White tower; 32.	*Temporarily extinguished.*
4136 *M 6589*	**O Saki.**	39° 14.9′ N 141° 58.2′ E	**Fl.W.** period 10s	374 **114**	**20**	White tower; 49.	
4140 *M 6588.4*	Kojirahama Ko, E. breakwater.	39° 12.3′ N 141° 52.1′ E	**Fl.R.** period 3s	33 **10**	3	Red round concrete structure; 27.	*Temporarily extinguished.*
4144 *M 6588.2*	Sikotu Saki.	39° 11.2′ N 141° 55.5′ E	**Fl.W.** period 3s	89 **27**	7	White tower; 33.	
4148 *M 6588*	Konpaku Ko, E. breakwater.	39° 09.2′ N 141° 51.6′ E	**Fl.R.** period 3s	46 **14**	3	Red round concrete structure; 27.	*Temporarily extinguished.*
4152 *M 6587*	Kobe Saki.	39° 06.4′ N 141° 55.1′ E	**Fl.W.** period 5s	407 **124**	7	White tower; 33.	
4156 *M 6586.6*	Rikutyu-Sakihama Ko, E. breakwater.	39° 06.0′ N 141° 52.0′ E	**F.Fl.(2)R.** period 8s 2 fl. 3s, ec. 5s	36 **11**	F. 6 Fl. 11	Red round concrete tower; 28.	*Temporarily extinguished.*
4160 *M 6586.4*	Okkirai Ko, E. breakwater, head.	39° 06.7′ N 141° 49.0′ E	**Fl.R.** period 3s	39 **12**	5	Red round concrete structure; 30.	*Temporarily extinguished.*
4162 *M 6586.2*	Onizawa Ko.	39° 05.2′ N 141° 48.9′ E	**Iso.G.** period 4s	23 **7**	3	White tower; 15.	
4164 *M 6586*	Ryori Saki.	39° 01.7′ N 141° 51.0′ E	**Fl.W.** period 15s	367 **112**	12	White square concrete structure; 62.	Visible 179°-062°.
4165	-Ryori Saki RAMARK.	39° 01.7′ N 141° 50.6′ E					
4166 *M 6584*	Ryori Ko, breakwater.	39° 01.9′ N 141° 47.5′ E	**Fl.(2)R.** period 6s	43 **13**	9	Red tower; 33.	*Temporarily extinguished.*
4172 *M 6582*	Koori Saki.	39° 01.1′ N 141° 45.5′ E	**Fl.W.** period 4s	157 **48**	7	White tower; 39.	
4176 *M 6582.2*	Breakwater, head.	39° 01.0′ N 141° 45.0′ E	**F.Fl.R.** period 5s	43 **13**	F. 6 Fl. 12		*Temporarily extinguished.*

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			JAPAN-HONSHU-EAST COAST				
4180 *M 6582.4*	Ofunato Wan, S. breakwater, entrance.	39° 00.9′ N 141° 44.1′ E	**Iso.G.** period 6s	39 **12**	12	White round concrete structure; 31.	*Temporarily extinguished.*
4184 *M 6582.6*	-N. breakwater.	39° 01.1′ N 141° 43.9′ E	**Fl.R.** period 3s	39 **12**	3	Red round concrete tower; 32.	
4188 *M 6583.5*	-Sango Shima, S. extremity.	39° 02.1′ N 141° 43.6′ E	**Fl.W.** period 3s	63 **19**	3	White round concrete tower; 33.	
4192 *M 6583.7*	--N. extremity.	39° 02.3′ N 141° 43.7′ E	**Fl.W.** period 4s	109 **33**	3	White tower; 27.	
4196 *M 6582.9*	Marumori.	39° 01.9′ N 141° 42.8′ E	**Dir.W.R.G.**	174 **53**	W. 14 R. 13 G. 13	White tower; 46.	F.R. 309°-310°, F.W.-312°, F.G.-313°. Reserve light range 4M.
4204 *M 6583.3*	-Hosoura fishery harbor, E. breakwater.	39° 01.2′ N 141° 43.1′ E	**Fl.(2)G.** period 5s	27 **8**	3	White tower; 18.	
4206 *M 6583.4*	-Detached breakwater.	39° 01.2′ N 141° 43.1′ E	**Fl.(2)R.** period 5s	30 **9**	3		*Temporarily extinguished.*
4208 *M 6581*	Goishi Saki.	38° 59.0′ N 141° 44.7′ E	**Fl.(3)W.** period 13s	128 **39**	5	White tower; 33.	
4214 *M 6572*	Nesaki, N. breakwater, head.	38° 56.5′ N 141° 42.6′ E	**Fl.(2)R.** period 6s	30 **9**	3	Red tower; 18.	
4216 *M 6571*	Tsubaki Shima.	38° 56.0′ N 141° 43.0′ E	**Fl.W.** period 6s	154 **47**	5	White round concrete tower; 33.	
	HIROTA WAN:						
4220 *M 6579*	-Hirota Ko, breakwater, head.	38° 57.0′ N 141° 41.5′ E	**Fl.R.** period 4s	39 **12**	4	Red tower; 30.	
4224 *M 6578*	-Akaiso Iwa, about 310 meters from Hirota Ko.	38° 56.9′ N 141° 41.3′ E	**Mo.(A)R.** period 8s	36 **11**	3	STARBOARD (B) R, tower, topmark; 33.	
	KESENNUMA WAN:						
4236 *M 6570*	-Rikuzen O Saki.	38° 51.5′ N 141° 40.4′ E	**Fl.W.** period 3s	138 **42**	5	White concrete tower; 43.	
4240 *M 6568*	-Kara Shima.	38° 51.7′ N 141° 38.5′ E	**Fl.W.** period 5s	111 **34**	5	White round concrete tower; 33.	
4246 *M 6567.48*	-Kosaba Ko, breakwater.	38° 52.9′ N 141° 38.6′ E	**Iso.R.** period 6s	30 **9**	4	Red tower; 22.	
4248 *M 6567*	-Banshone, on reef.	38° 53.1′ N 141° 37.2′ E	**Fl.G.** period 3s	31 **9**	3	PORT (B) G, tower, topmark; 26.	F.W. spotlight illuminates Banshone 79 meters NNE.
4252 *M 6567.5*	-Shibitachi Nakane.	38° 53.0′ N 141° 38.1′ E	**Mo.(A)R.** period 8s	36 **11**	3	STARBOARD (B) R, beacon, topmark; 33.	
4254 *M 6567.3*	-Breakwater, W.	38° 53.0′ N 141° 36.1′ E	**Fl.R.** period 3s	22 **7**	3	Red tower; 15.	
4256 *M 6566.5*	-Jodan.	38° 52.8′ N 141° 36.3′ E	**Fl.W.** period 4s	69 **21**	3	White tower; 19.	
4260 *M 6567.2*	-Range, front.	38° 53.7′ N 141° 35.7′ E	**F.R.**	217 **66**	7	White metal framework tower; 39.	
4264 *M 6567.21*	--Rear, 690 meters 354°48′ from front.	38° 54.0′ N 141° 35.7′ E	**F.R.**	354 **108**	7	White metal framework tower; 59.	
4268 *M 6566*	-O Shima.	38° 49.8′ N 141° 37.5′ E	**Fl.W.** period 10s	121 **37**	5	White tower; 43.	
4272 *M 6567.4*	To Wan, Yoroi Saki.	38° 53.6′ N 141° 37.6′ E	**Dir.W.R.G.**	92 **28**	W. 14 R. 10 G. 11	White round concrete tower; 30.	F.R. 329°30′-331°, F.W.-333°, F.G.-334°30′.

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			JAPAN-HONSHU-EAST COAST				
4276 *M 6564*	Iwai Saki.	38° 49.7′ N 141° 36.2′ E	**Oc.(3)W.R.** period 13s lt. 6s, ec. 1s lt. 2s, ec. 1s lt. 2s, ec. 1s	79 **24**	14	White round concrete tower; 56.	W. 089°-337°, R.-089° over reefs 2 km. SSE.
4280 *M 6562*	Hikado Ko, breakwater, head.	38° 48.3′ N 141° 33.7′ E	**Fl.G.** period 4s	39 **12**	3	White round concrete tower; 30.	
4282 *M 6561.6*	Kurauti Ko.	38° 45.0′ N 141° 32.0′ E	**Fl.R.** period 3s	31 **9**	5	Red tower; 15.	
4284 *M 6560*	Utatsu Saki.	38° 41.8′ N 141° 33.6′ E	**Fl.W.** period 4s	164 **50**	7	White tower; 36.	
4285 *M 6560.2*	Rikuzentomari Ko.	38° 42.1′ N 141° 33.6′ E	**Iso.R.** period 6s	26 **8**	4	Red tower; 18.	
4288 *M 6561*	Shizukawa, S. breakwater.	38° 40.0′ N 141° 27.0′ E	**F.Fl.G.** period 5s	32 **10**	F. 3 Fl. 7	White tower; 28.	
4292 *M 6558*	Terahama.	38° 38.0′ N 141° 31.9′ E	**Iso.W.** period 6s	161 **49**	8	White tower; 32.	
4296 *M 6557*	Ogachi Hunagosi Ko, W. breakwater.	38° 32.1′ N 141° 30.5′ E	**Fl.R.** period 3s	16 **5**	2	Red tower; 8.	
4300 *M 6556*	Osu Zaki.	38° 31.1′ N 141° 32.9′ E	**Fl.(2)W.** period 6s	164 **50**	12	White tower; 39.	Visible 160°-006°.
4304 *M 6554*	Shirogane Zaki.	38° 29.0′ N 141° 32.0′ E	**Fl.(3)W.** period 13s	125 **38**	7	White tower; 33.	
4308 *M 6555.2*	Ogati Ko Range, front.	38° 31.3′ N 141° 28.4′ E	**F.G.**	148 **45**	10	White round concrete tower; 36.	
4312 *M 6555.21*	-Rear, 137 meters 315° from front.	38° 31.4′ N 141° 28.3′ E	**F.G.**	190 **58**	10	White round concrete tower; 26.	
4316 *M 6555*	Aka Saki.	38° 30.0′ N 141° 30.0′ E	**Fl.W.** period 3s	112 **34**	7	White round concrete tower; 31.	
4320 *M 6549*	Yogono.	38° 26.3′ N 141° 31.7′ E	**Fl.W.** period 3s	190 **58**	5	White tower; 32.	
4324 *M 6549.5*	Yogouo Saki.	38° 26.4′ N 141° 31.5′ E	**Fl.R.** period 3s	36 **11**	3	Red tower; 31.	
4334 *M 6549.8*	Onagawa Wan, breakwater, N. head.	38° 24.1′ N 141° 30.6′ E	**Fl.G.** period 3s	46 **14**	4	White tower; 39.	
4336 *M 6547*	Rikuzen Yeno Shima.	38° 24.0′ N 141° 36.0′ E	**Fl.(2)W.** period 10s	286 **87**	7	White tower; 33.	
4340 *M 6548*	-Haya Saki.	38° 24.0′ N 141° 32.0′ E	**Fl.W.** period 4s	312 **95**	7	White tower; 39.	F.W. auxiliary light illuminates Minaminabakari NE. Rock, about 1.8 km NNW.
4344 *M 6546*	**Kinkazan.**	38° 16.6′ N 141° 35.0′ E	**Al.Fl.W.R.** period 20s	181 **55**	W. **20** R. **17**	White round granite tower; 43.	Visible 189°-045°. Storm signals. **DGPS Station** 185 meters NW.
4348 *M 6544*	Rikuzen Kuro Saki.	38° 16.4′ N 141° 31.1′ E	**Iso.W.** period 6s	213 **65**	8	White tower; 39.	
4352 *M 6545*	Domiki Saki.	38° 14.6′ N 141° 30.2′ E	**Fl.(3)W.** period 12s	105 **32**	12	White tower, two red bands; 33.	F.W. auxiliary light illuminates Inu Iso about 490 meters ESE.
4354 *M 6545.7*	Hutawatasi Ko.	38° 15.4′ N 141° 29.9′ E	**Fl.G.** period 5s	26 **8**	2	White tower; 16.	
4360 *M 6545.5*	Azi Sima.	38° 16.6′ N 141° 27.6′ E	**Fl.R.** period 4s	43 **13**	5	Red tower; 31.	
4364 *M 6541*	Nitoda Ko, breakwater.	38° 17.8′ N 141° 25.6′ E	**Fl.G.** period 4s	36 **11**	3	White tower; 28.	

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4366 *M 6540.5*	Rikazen Odomari Ko.	38° 18.1′ N 141° 25.5′ E	**Fl.G.** period 3s	33 **10**	3	White tower; 21.	
4368 *M 6540*	Nigishiro Saki.	38° 18.5′ N 141° 25.3′ E	**Fl.(2)W.** period 7s	157 **48**	7	White tower; 33.	
4372 *M 6538*	Oginohama Ko, on Kitsuneana Saki.	38° 22.0′ N 141° 26.0′ E	**Fl.W.** period 3s	121 **37**	5	White round concrete tower; 30.	
4376 *M 6537*	-Momonoura Ko, breakwater, head.	38° 23.6′ N 141° 26.0′ E	**Fl.(2)G.** period 8s	23 **7**	5	White tower; 15.	
4380 *M 6534*	Watanoaha, O Saki.	38° 23.0′ N 141° 22.0′ E	**Fl.W.** period 5s	118 **36**	5	White round concrete tower; 39.	
4384 *M 6535.2*	Watanoha Ko Nagahama, breakwater.	38° 24.0′ N 141° 22.0′ E	**F.Fl.G.** period 6s	39 **12**	F. 1 Fl. 3	White round concrete tower; 26.	
4400 *M 6533.4*	-Gyoko, N. breakwater, head.	38° 24.6′ N 141° 20.4′ E	**Fl.R.** period 3s	36 **11**	3	Red concrete column; 33.	
4404 *M 6533.6*	--E. breakwater, head.	38° 24.1′ N 141° 20.7′ E	**Fl.G.** period 4s	36 **11**	5	White tower; 33.	
4408 *M 6533*	Ishinomaki Ko, W. breakwater, head.	38° 24.4′ N 141° 18.8′ E	**Iso.G.** period 4s	36 **11**	5	White round concrete tower; 36.	
4412 *M 6532*	-E. breakwater, S. head.	38° 24.4′ N 141° 18.9′ E	**Fl.R.** period 4s	32 **10**	5	Red octagonal concrete tower; 33.	
	ISHINOMAKI KO:						
	-Gyoko:						
4416 *M 6533.8*	--Range, front.	38° 24.9′ N 141° 20.8′ E	**F.R.**	39 **12**	7	Metal post, white triangular daymark point up; 31.	
4420 *M 6533.81*	---Rear, 68 meters 001°18′ from front.	38° 24.9′ N 141° 20.8′ E	**F.R.**	62 **19**	7	Metal post, white triangular daymark point up; 59.	
4424 *M 6531*	-Breakwater, head.	38° 23.9′ N 141° 15.9′ E	**Fl.(2)R.** period 6s	36 **11**	4	Red tower; 33.	
4428 *M 6530*	Matushima AVIATION LIGHT.	38° 25.1′ N 141° 13.2′ E	**Al.Fl.(2+1)W.G.** period 10s	126 **38**	W. 8 G. 6	Framework structure.	
4432 *M 6520*	Ha Shima.	38° 18.7′ N 141° 11.3′ E	**Fl.W.** period 3s	118 **36**	7	White round concrete tower; 39.	
4434 *M 6520.5*	Miyato Sima, breakwater.	38° 19.4′ N 141° 10.2′ E	**Fl.R.** period 4s	27 **8**	2	Red tower; 16.	
4442 *M 6523*	-Outer breakwater.	38° 19.2′ N 141° 03.3′ E	**Fl.R.** period 4s	24 **7**	4	Red tower; 19.	
4444 *M 6522*	Jizo Shima.	38° 19.2′ N 141° 04.5′ E	**Fl.W.** period 4s	66 **20**	5	White octagonal stone tower; 36.	
4448 *M 6521.4*	Siogama Ko, Hanabuti, breakwater.	38° 18.2′ N 141° 05.2′ E	**Iso.G.** period 6s	30 **9**	4	White tower; 22.	
4452 *M 6521*	**Hanabuchi.**	38° 17.0′ N 141° 05.0′ E	**Al.Fl.(2)R.G.** period 20s	207 **63**	R. **18** G. **17**	White round concrete tower; 75.	Visible 172°-050°.
4454 *M 6521.5*	Siogama Kobama A.	38° 18.1′ N 141° 05.5′ E	**Fl.G.** period 3s	26 **8**	3	White tower; 15.	
4456 *M 6521.35*	Sendai Ku.	38° 17.0′ N 141° 04.0′ E	**Fl.(3)R.** period 12s	36 **11**	3	Red tower; 30.	
4457 *M 6521.25*	-N. detached breakwater, S. head.	38° 16.0′ N 141° 03.7′ E	**Fl.R.** period 4s	43 **13**	4	Red tower; 33.	
4457.5 *M 6521.05*	-S. breakwater, E. head.	38° 15.8′ N 141° 04.1′ E	**Fl.G.** period 4s	49 **15**	7	White tower; 39.	

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4458 *M 6521.32*	Siogama Ko Matugahama, breakwater.	38° 16.4′ N 141° 03.2′ E	**Fl.R.** period 3s	33 **10**	4	Red tower; 22.	
4460 *M 6521.2*	-N. breakwater, S. head.	38° 16.2′ N 141° 02.5′ E	**Fl.(2)R.** period 6s	52 **16**	4	Red tower; 46.	
4464 *M 6521.1*	-Sendai, S. breakwater, head.	38° 15.9′ N 141° 02.8′ E	**Fl.(2)G.** period 6s	56 **17**	5	White tower; 46.	
4472 *M 6518*	Yuriage Ko, Training Wall.	38° 10.0′ N 140° 58.0′ E	**Fl.G.** period 4s	52 **16**	7	White round concrete tower; 36.	
4476 *M 6517.5*	Yanoma AVIATION LIGHT.	38° 08.0′ N 140° 55.0′ E	**Al.Fl.W.G.** period 4.3s	56 **17**	W. 3 G. 1	Metal framework tower; 49.	
4478 *M 6517.47*	Soma Ko, breakwater, NE. head.	37° 51.9′ N 140° 58.8′ E	**Fl.(2)G.** period 6s	46 **14**	5	White tower; 39.	
4479 *M 6517.46*	-N. breakwater, head.	37° 51.4′ N 140° 58.3′ E	**Fl.(2)R.** period 6s	30 **9**	5	Red tower; 30.	
4480 *M 6517.4*	Soma Ko.	37° 50.5′ N 140° 58.3′ E	**Fl.G.** period 3s	43 **13**	4	White tower; 33.	
4484 *M 6517.45*	-E. breakwater, head.	37° 50.3′ N 140° 57.9′ E	**Fl.R.** period 3s	33 **10**	4	Red round concrete tower; 22.	
4488 *M 6517*	Matukawura Ko, S. breakwater.	37° 50.2′ N 140° 58.6′ E	**Fl.G.** period 4s	49 **15**	5	White tower; 31.	
4496 *M 6516*	**Unoo Zaki.**	37° 49.0′ N 140° 59.0′ E	**Fl.W.** period 10s	131 **40**	**17**	White square concrete tower; 49.	
4497 *M 6516.85*	Tohokundenryoku.	37° 40.2′ N 141° 01.9′ E	**Dir.W.R.G.** period 8s fl. 6s, ec. 2s	36 **11**	W. 7 R. 6 G. 6	White tower; 23.	Oc.R. 311°-313°30′, Oc.W.-316°30′, Oc.G.-319°. Emergency light W. 2M, R. 1M, G. 1M.
4498 *M 6516.8*	Haramati, breakwater.	37° 39.8′ N 141° 02.2′ E	**Fl.G.** period 5s	56 **17**	4	White tower; 29.	
4499 *M 6516.7*	-E. breakwater.	37° 39.7′ N 141° 02.7′ E	**Fl.R.** period 5s	59 **18**	7	Red tower; 32.	
4500 *M 6515.4*	Toden Hukusima, S. breakwater, head.	37° 25.2′ N 141° 02.7′ E	**Iso.G.** period 6s	49 **15**	10	White round concrete tower; 36.	
4504 *M 6515*	**Oragahama.**	37° 21.6′ N 141° 02.5′ E	**Fl.W.** period 8s	134 **41**	**17**	White round concrete tower; 39.	
4508 *M 6515.2*	Yotukura Ko, northward.	37° 19.0′ N 141° 02.5′ E	**Fl.(2)G.** period 9s	52 **16**	7	White tower; 39.	
4512 *M 6514.96*	Hisanohoma Ko Range, front.	37° 14.0′ N 141° 01.0′ E	**F.Y.**	180 **55**	14	White triangular daymark point up; 17.	Occasional.
4516 *M 6514.97*	-Rear, 255°12′ from front.	37° 14.6′ N 141° 00.8′ E	**F.Y.**	223 **68**	14	White triangular daymark point down; 39.	Occasional.
4520 *M 6514.95*	Toden Hiro, breakwater.	37° 14.3′ N 141° 01.7′ E	**Iso.G.** period 6s	56 **17**	7	White tower; 43.	
4524 *M 6514.6*	Hisanohama Ko, N. breakwater head.	37° 09.0′ N 141° 00.0′ E	**Iso.R.** period 8s	49 **15**	5	Red round concrete tower; 36.	
4528 *M 6514.9*	-S. breakwater, N. head.	37° 08.6′ N 141° 00.6′ E	**Fl.G.** period 4s	49 **15**	5	White round concrete tower; 36.	
4532 *M 6514.8*	W. breakwater.	37° 08.8′ N 141° 00.5′ E	**Fl.(2)R.** period 6s	39 **12**	5	Red tower; 23.	
4536 *M 6514.2*	Yotsukura Ko Oki, S. detached breakwater.	37° 06.5′ N 141° 00.1′ E	**Fl.(2)G.** period 6s	34 **10**	7	White round concrete tower; 26.	
4542 *M 6514.3*	-Detached breakwater, S. head.	37° 06.5′ N 141° 00.2′ E	**Fl.(2)R.** period 6s	43 **13**	3	Red tower; 29.	
4550 *M 6513*	Toyoma Ko, detached breakwater.	37° 00.5′ N 140° 59.1′ E	**Fl.(3)G.** period 12s	39 **12**	3	White tower; 27.	

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			JAPAN-HONSHU-EAST COAST				
4552 *M 6512*	**Shioya Misaki.**	36° 59.7′ N 140° 58.9′ E	**Fl.W.** period 15s	240 **73**	**22**	White round concrete tower; 89.	
4556 *M 6511*	Toyoma Ko, outer breakwater, head.	36° 59.5′ N 140° 58.9′ E	**Fl.(2)G.** period 6s	46 **14**	3	White tower; 33.	
4560 *M 6508*	Ena Ko, W. breakwater, head.	36° 58.1′ N 140° 57.7′ E	**Fl.G.** period 5s	49 **15**	4	White round concrete tower; 43.	
4564 *M 6509.6*	-Offing breakwater, S. head.	36° 57.7′ N 140° 58.3′ E	**Fl.R.** period 3s	49 **15**	5	Red round concrete structure; 36.	
4580 *M 6507.4*	Nakanosaki Ko, E. breakwater.	36° 57.4′ N 140° 57.2′ E	**Fl.R.** period 3s	33 **10**	5	Red round concrete tower; 24.	
4584 *M 6507*	-Basin, W. breakwater.	36° 57.4′ N 140° 57.3′ E	**Fl.G.** period 3s	33 **10**	3	White round concrete tower; 28.	
4588 *M 6505.6*	-Offing, E. breakwater.	36° 57.0′ N 140° 57.0′ E	**Fl.(2)R.** period 8s	46 **14**	5	Red round concrete tower; 36.	
4592 *M 6505.4*	-Offing, W. breakwater.	36° 57.2′ N 140° 57.4′ E	**Fl.(2)G.** period 6s	46 **14**	3	White tower; 33.	
4604 *M 6505*	Ryugasaki Hana.	36° 57.0′ N 140° 57.2′ E	**Fl.W.** period 3s	49 **15**	10	White tower; 52.	
4608 *M 6504*	Bandokoro.	36° 56.0′ N 140° 55.7′ E	**Iso.W.** period 6s	115 **35**	8	White round concrete tower; 36.	
	ONAHAMA KO:						
4612 *M 6500.4*	-E. breakwater, S. head.	36° 56.0′ N 140° 55.0′ E	**Fl.(2)R.** period 6s	46 **14**	5	Red round concrete tower; 33.	
4620 *M 6500.6*	-Misaki breakwater.	36° 56.0′ N 140° 54.7′ E	**Fl.(2)G.** period 6s	46 **14**	3	White round concrete tower; 33.	
4624 *M 6502*	-Inner breakwater.	36° 56.4′ N 140° 54.8′ E	**Iso.R.** period 6s	33 **10**	4	Red round concrete tower; 26.	
4632 *M 6499.8*	-S. breakwater, W. head.	36° 54.3′ N 140° 53.2′ E	**Fl.(2)R.** period 7s	62 **19**	7	Red tower; 52.	
4636 *M 6500*	-No 2, W. breakwater.	36° 55.1′ N 140° 53.2′ E	**Fl.G.** period 5s	49 **15**	3	White metal framework tower, square concrete base; 39.	
4640 *M 6503*	-Huzi Kosan Sea berth.	36° 55.2′ N 140° 52.8′ E	**Mo.(U)W.** period 10s	95 **29**	11		Auxiliary lights Mo.(U)R. 180 meters E. and 185 meters WSW. **Horn:** 2 bl. ev. 20s. **Radar reflector.**
4644 *M 6502.8*	-Hassaki, breakwater.	36° 54.6′ N 140° 52.1′ E	**Fl.(3)G.** period 13s	56 **17**	3	White round concrete tower; 43.	
4648 *M 6503.5*	-Hassaki, outer breakwater, W. head.	36° 54.6′ N 140° 52.1′ E	**Fl.R.** period 3s	56 **17**	5	Red round concrete tower; 43.	
4652 *M 6499*	Nakoso Ko.	36° 51.7′ N 140° 47.6′ E	**Fl.G.** period 5s	43 **13**	3	White round concrete tower; 30.	
4656 *M 6498.2*	Hirakata Ko, S. breakwater.	36° 51.6′ N 140° 48.0′ E	**Fl.(2)G.** period 6s	49 **15**	7	White concrete tower; 28.	
4660 *M 6496.6*	**Otsu Misaki.**	36° 49.6′ N 140° 48.4′ E	**Fl.W.** period 8s	184 **56**	**20**	White tower; 52.	Visible 180°-060°.
4664 *M 6497*	Otsu Ko breakwater, near Ostu Hana.	36° 49.4′ N 140° 47.5′ E	**Fl.R.** period 3s	43 **13**	5	Red round metal tower; 28.	
4668 *M 6496.3*	Kawajiri.	36° 39.3′ N 140° 42.5′ E	**Iso.W.** period 6s	157 **48**	12	White round concrete tower; 56.	Visible 213°-013°.
4672 *M 6496.2*	-Kawajiri, S. breakwater, head.	36° 38.8′ N 140° 42.4′ E	**Fl.G.** period 3s	49 **15**	3	White tower; 33.	

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			JAPAN-HONSHU-EAST COAST				
4676 *M 6496.1*	Ose Ko, breakwater.	36° 34.6′ N 140° 39.6′ E	**Iso.R.** period 4s	33 **10**	4	Red round concrete tower; 28.	
4680 *M 6496.04*	Moto-Kawarago Ko, S. breakwater.	36° 32.2′ N 140° 39.1′ E	**F.Fl.R.** period 5s	39 **12**	F. 2 Fl. 5	Red round concrete tower; 27.	
4684 *M 6495.9*	Kuji Ko, N. breakwater.	36° 29.9′ N 140° 37.7′ E	**Fl.R.** period 3s	43 **13**	4	Red round concrete tower; 31.	
4688 *M 6495.8*	Hitachi.	36° 30.0′ N 140° 38.0′ E	**Fl.(3)W.** period 25s	138 **42**	12	White round concrete tower; 82.	Visible 194°-029°.
4692 *M 6496*	-W. breakwater, head.	36° 29.0′ N 140° 37.7′ E	**Fl.(2)G.** period 7s	62 **19**	4	White tower; 52.	
4696 *M 6496.03*	-SE. breakwater, head.	36° 28.9′ N 140° 38.0′ E	**Fl.R.** period 6s	59 **18**	7	Red round concrete tower; 52.	
4700 *M 6496.02*	Tokai Nuclear Plant, N. breakwater, head.	36° 27.9′ N 140° 37.0′ E	**Fl.R.** period 4s	46 **14**	8	Red round concrete tower; 31.	
4702 *M 6495.6*	Hitati Isozaki Ko.	36° 23.2′ N 140° 37.4′ E	**Fl.G.** period 3s	36 **11**	3	White round concrete tower; 21.	
4704 *M 6495.5*	**Isozaki Misaki.**	36° 22.8′ N 140° 37.6′ E	**Fl.W.** period 12s	118 **36**	**17**	White tower; 49.	Visible 198°-358°.
	RACON				**20**		
4708 *M 6495.3*	Naka-Minato Ko, S. breakwater.	36° 20.0′ N 140° 36.3′ E	**Fl.(2)G.** period 9s	46 **14**	3	White tower; 31.	
4710 *M 6495.45*	-Approach.	36° 21.2′ N 140° 36.8′ E	**Fl.(2)R.** period 6s	29 **9**	4	Red tower; 19.	
4720 *M 6495*	-E. breakwater.	36° 20.3′ N 140° 36.1′ E	**Fl.(2)R.** period 9s	46 **14**	3	Red tower; 31.	
4728 *M 6495.4*	-Naka-Minato Ko, breakwater.	36° 20.2′ N 140° 36.3′ E	**Fl.R.** period 3s	46 **14**	5	Red round concrete tower; 33.	
4732 *M 6494.2*	Oarai Misaki.	36° 17.4′ N 140° 35.2′ E	**Fl.R.** period 4s	49 **15**	7	Red tower; 30.	
4740 *M 6493.2*	**Kashima.**	35° 59.6′ N 140° 38.9′ E	**Fl.W.** period 5s	207 **63**	**19**	White round concrete tower; 105.	Visible 160°-329°.
4741 *M 6492.4*	-Kashima Ko.	35° 57.2′ N 140° 41.4′ E	**Dir.W.R.G.**	56 **17**	13	White tower, two red bands; 52.	F.R. 218°18′-220°18′, F.W.-224°18′, F.G.-226°18′. Range W. 5M, R. 4M, G. 4M by day.
			Iso.R.G. period 4s		13		R. 216°18′-218°18′, G. 226°18′-228°18′. Range 4M by day.
4744 *M 6492*	-S. breakwater, head.	35° 57.5′ N 140° 42.8′ E	**Fl.W.** period 3s	52 **16**	7	White square metal framework structure; 36.	
4750 *M 6491.4*	-Range, front.	35° 55.5′ N 140° 42.3′ E	**F.G.**	82 **25**	11	White round concrete tower; 72.	F.W. 4M by day.
4750.1 *M 6491.41*	--Rear, 200 meters 183°30′ from front.	35° 55.3′ N 140° 42.3′ E	**F.G.**	102 **31**	11	White round concrete tower; 89.	F.W. 4M by day.
	CHOSHI KO:						
4752 *M 6482*	-Ichino Shima, head of breakwater, S. side of entrance to Tone Gawa.	35° 44.9′ N 140° 51.4′ E	**Iso.W.** period 6s	53 **16**	13	White tower; 52.	
4756 *M 6483*	-W. breakwater.	35° 44.9′ N 140° 51.6′ E	**F.Fl.R.** period 4s	43 **13**	F. 6 Fl. 10	Red square metal framework tower; 32.	
4760 *M 6483.4*	-Middle breakwater.	35° 44.7′ N 140° 51.5′ E	**F.R.**	39 **12**	7	Red round concrete tower; 33.	Visible 205°-065°.

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			JAPAN-HONSHU-EAST COAST				
4764 *M 6482.4*	-Tyosi Ko, E. breakwater, head.	35° 45.0′ N 140° 51.6′ E	**Fl.G.** period 3s	49 **15**	5	White round concrete tower; 39.	
4768 *M 6482.2*	-N. breakwater, head.	35° 45.2′ N 140° 51.7′ E	**Fl.(2)G.** period 6s	49 **15**	5	White tower; 33.	
4776 *M 6491*	-Choshi Ko No 2 Fishery Basin, E. groin, head.	35° 44.2′ N 140° 50.4′ E	**Fl.R.** period 5s	23 **7**	4	Red tower; 19.	
4780 *M 6478*	**Inubo Saki,** near SE. extremity of promontory.	35° 42.5′ N 140° 52.1′ E	**Fl.W.** period 15s	171 **52**	**19**	White round brick tower; 102.	Visible 169°-065°. Storm signal. **DGPS Station.**
4784 *M 6478.4*	Nagasaki Hana.	35° 41.6′ N 140° 51.9′ E	**F.W.**	75 **23**		White tower; 67.	
4788 *M 6479*	Togawa Ko, E. breakwater, head.	35° 41.6′ N 140° 51.0′ E	**Fl.R.** period 4s	43 **13**	5	Red tower; 27.	
4796 *M 6477*	Iioka.	35° 41.6′ N 140° 44.4′ E	**Iso.W.** period 6s	243 **74**	12	White tower; 31.	Visible 113°-271°.
4800 *M 6472*	**Taito Saki.**	35° 18.5′ N 140° 24.8′ E	**Fl.W.** period 10s	236 **72**	**20**	White tower; 52.	
4804 *M 6471.1*	Ohara Ko Range No 1, front.	35° 15.4′ N 140° 24.2′ E	**F.G.**	39 **12**	10	White round concrete tower, white triangular daymark point up; 36.	
4808 *M 6471.11*	-Rear, 46 meters 261°54′ from front.	35° 15.4′ N 140° 24.2′ E	**F.G.**	46 **14**	10	White round tower, white triangular daymark point up; 43.	
4812 *M 6471.03*	Ohara Ko, N. breakwater.	35° 15.3′ N 140° 24.3′ E	**Iso.R.** period 4s	29 **9**	4	Red tower; 18.	
4816 *M 6471*	-E. breakwater, N. end.	35° 15.3′ N 140° 24.4′ E	**Fl.G.** period 4s	46 **14**	5	White round concrete tower; 33.	
4818 *M 6470.9*	-Breakwater, head.	35° 15.4′ N 140° 24.5′ E	**Fl.(2)G.** period 6s	46 **14**	5	White tower; 32.	
4824 *M 6470.7*	Iwawada Ko, breakwater.	35° 10.7′ N 140° 22.0′ E	**Fl.R.** period 3s	33 **10**	5	Red tower; 21.	
4826 *M 6470.8*	Onzyuku Ko.	35° 10.7′ N 140° 21.0′ E	**Fl.G.** period 3s	27 **8**	3	White tower; 18.	
4828 *M 6470.2*	Kazuea Toyohama Ko, breakwater.	35° 09.2′ N 140° 20.0′ E	**Iso.G.** period 4s	39 **12**	5	White tower; 31.	
4832 *M 6470.3*	Kawatzu Ko, S. Breakwater.	35° 08.7′ N 140° 19.7′ E	**F.Fl.G.** period 5s	33 **10**	F. 2 Fl. 5	White tower; 28.	
4836 *M 6470*	**Katuura.**	35° 08.3′ N 140° 19.2′ E	**Fl.(2)W.** period 20s	233 **71**	**22**	White tower; 69.	Visible 229°-073°.
4840 *M 6470.14*	-S. breakwater.	35° 08.4′ N 140° 19.8′ E	**Iso.R.** period 6s	39 **12**	5	Red tower; 28.	
4844 *M 6470.1*	-W. breakwater.	35° 08.6′ N 140° 18.6′ E	**Iso.G.** period 6s	36 **11**	4	White tower; 30.	
	KAMOGAWA WAN:						
4848 *M 6469*	-Kominato Ko, on Hira Shima.	35° 07.2′ N 140° 11.6′ E	**Fl.R.** period 3s	31 **9**	5	Tower; 26.	
4852 *M 6469.2*	--E. breakwater, head.	35° 07.2′ N 140° 11.9′ E	**Oc.W.** period 8s	33 **10**	11	White tower, black band; 28.	
4856 *M 6469.4*	--N. breakwater, head.	35° 07.3′ N 140° 11.7′ E	**F.Fl.G.** period 4s	36 **11**	F. 1 Fl. 3	White tower; 30.	
4860 *M 6468.4*	-Amatsu Ko Range, front.	35° 07.4′ N 140° 09.5′ E	**F.R.**	72 **22**	7	White tower, square daymark; 43.	

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4864 *M 6468.41*	--Rear, 80 meters 329°18′ from front.	35° 07.2′ N 140° 09.7′ E	**F.R.**	203 **62**	7	White round concrete tower, square daymark; 19.	
4868 *M 6468.2*	--W. breakwater.	35° 08.0′ N 140° 09.8′ E	**Fl.(2)G.** period 6s	39 **12**	5	White tower; 27.	
4872 *M 6468*	--S. breakwater.	35° 07.2′ N 140° 09.6′ E	**Fl.(2)R.** period 6s	43 **13**	3	Red tower; 31.	
4876 *M 6467.4*	Hamogi Ko, breakwater.	35° 07.0′ N 140° 08.6′ E	**Fl.R.** period 4s	39 **12**	5	Red round concrete tower; 27.	
4880 *M 6466*	Kamogawa, on Ara Shima.	35° 05.6′ N 140° 06.6′ E	**Fl.(3)W.** period 13s	85 **26**	12	White tower; 36.	
4882 *M 6466.6*	Kamogawa Ko.	35° 05.4′ N 140° 06.7′ E	**Fl.R.** period 3s	39 **12**	5	Red tower; 27.	
4888 *M 6465*	Emi Ko Mai Shima.	35° 03.5′ N 140° 03.8′ E	**Fl.(2)R.** period 6s	36 **11**	5	Red round concrete tower; 30.	
4890 *M 6463*	Wado Ko.	35° 02.0′ N 140° 00.8′ E	**Fl.R.** period 4s	42 **13**	7	Red tower; 31.	
4892 *M 6465.4*	Hamanabuto Ko, breakwater.	35° 04.6′ N 140° 06.1′ E	**F.Fl.W.** period 5s	39 **12**	F. 2 Fl. 5	White tower; 28.	F.W. also lights reef 70 meters S.
4900 *M 6461*	-Middle breakwater, head.	34° 57.5′ N 139° 57.9′ E	**Fl.(2)R.** period 8s	36 **11**	5	Red round concrete tower; 31.	
4904 *M 6462*	-Chikura.	34° 57.4′ N 139° 57.8′ E	**Dir.W.R.G.**	39 **12**	W. 8 R. 7 G. 8	White round concrete tower; 43.	F.R. 228°30′-230°30′, F.W.-232°30′, F.G.-234°30′. Iso.Y. 4s above main light. Emergency light W. 2M, R. 1M, G. 2M.
4912 *M 6459*	Nanaura Ko Range, front.	34° 56.0′ N 139° 57.3′ E	**F.G.**	36 **11**	10	White round concrete tower, white square daymark; 33.	
4916 *M 6459.1*	-Rear, 116 meters 289°36′ from front.	34° 55.8′ N 139° 57.4′ E	**F.G.**	49 **15**	10	White round concrete tower, white square daymark; 39.	
			JAPAN-NANPO SHOTO				
4920 *M 6276*	Miyake Jima, NW. point of island.	34° 06.7′ N 139° 29.4′ E	**Fl.W.** period 5s	79 **24**	12	White square stone tower; 33.	Visible 352°-202°.
4922 *M 6275.5*	-Yunohama Ko.	34° 07.5′ N 139° 31.9′ E	**Oc.G.** period 8s lt. 6s, ec. 2s	46 **14**	3	White tower; 27.	
4924 *M 6275*	**-Satado Misaki**	34° 05.6′ N 139° 33.9′ E	**Fl.W.** period 15s	118 **36**	**17**	White round concrete tower; 46.	Visible 180°-008°.
4928 *M 6276.1*	Izu Miyake Ko, jetty.	34° 04.8′ N 139° 34.0′ E	**Fl.W.** period 3s	56 **17**	7	White round concrete tower; 49.	
4932 *M 6276.4*	Tsubota Ko, breakwater.	34° 03.4′ N 139° 32.7′ E	**Fl.G.** period 3s	66 **20**	3	White round concrete tower; 29.	
4938 *M 6276.3*	-Breakwater, head.	34° 04.1′ N 139° 28.6′ E	**Fl.W.** period 3s	52 **16**	7	White tower; 33.	
4939 *M 6276.6*	Mikura Sima, breakwater.	33° 53.8′ N 139° 35.2′ E	**Fl.R.** period 4s	39 **12**	3	Red tower; 22.	
4940 *M 6279.6*	Ogosi Hana.	33° 09.3′ N 139° 44.9′ E	**Fl.(2)W.** period 20s	325 **99**	12	White round concrete tower; 49.	Visible 024°-258°.
4948 *M 6278.1*	-Kaminato Anchorage.	33° 08.0′ N 139° 48.4′ E	**Iso.G.** period 4s	55 **17**	8	White tower; 30.	
4950 *M 6278.5*	-Sokodo Hakuti, breakwater.	33° 07.4′ N 139° 49.4′ E	**Fl.W.** period 3s	52 **16**	7	White tower; 33.	

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			JAPAN-NANPO SHOTO				
4952 *M 6277*	**-Ishizumiga Hana.**	33° 04.8′ N 139° 51.3′ E	**Fl.W.** period 10s	315 **96**	**24**	White round concrete tower; 56.	**Radiobeacon** 360 meters WNW. **DGPS Station** 360 meters WNW.
4956 *M 6277.4*	-Yaene Ko, breakwater, head.	33° 05.9′ N 139° 46.5′ E	**Iso.G.** period 6s	49 **15**	8	White tower; 28.	
	Ogasawara Gunto:						
4960 *M 8348*	-Futami Ko, breakwater.	27° 05.6′ N 142° 11.7′ E	**Oc.G.** period 8s lt. 6s, ec. 2s	33 **10**	8	White tower; 30.	
4962 *M 8347*	-E. breakwater.	27° 05.8′ N 142° 12.0′ E	**Fl.(2)R.** period 6s	30 **9**	4	Red tower; 19.	
4964 *M 8346*	-Futami Ko.	27° 04.8′ N 142° 12.5′ E	**Fl.W.** period 4s	230 **70**	12	White tower; 33.	
4968 *M 8346*	-Futami Ko, entrance.	27° 04.8′ N 142° 12.5′ E	**Dir.W.R.G.**	213 **65**	W. 13 R. 10 G. 10	White tower; 33.	F.R. 083°12′-087°12′, F.W.-090°12′, F.G.-094°12′.
4972 *M 8350*	Haha Shima Approach.	26° 38.0′ N 142° 09.8′ E	**Dir.W.R.G.**	131 **40**	W. 13 R. 9 G. 10	White round concrete tower; 36.	F.R. 063°54′-068°54′, F.W.-075°54′, F.G.-080°54′.
4974 *M 8351*	-Breakwater, head.	26° 38.1′ N 142° 09.5′ E	**Fl.G.** period 3s	36 **11**	7	White tower; 31.	
	KAZAN RETTO (VOLCANO ISLANDS):						
4976 *M 8360*	-Io To AVIATION LIGHT.	24° 46.8′ N 141° 19.4′ E	**Al.Fl.W.G.** period 2s	367 **112**	W. 10 G. 6		
			JAPAN-HONSHU-EAST COAST				
4980 *M 6458*	Awa Shirahama Ko.	34° 54.9′ N 139° 56.1′ E	**F.Fl.W.R.** period 5s	36 **11**	F. 6 Fl. 10	White round concrete tower; 31.	W. 085°-325°, R.-085°.
4984 *M 6457*	Otohama Ko Range, front.	34° 54.7′ N 139° 55.7′ E	**F.G.**	24 **7**	8	White tower; 22.	
4988 *M 6457.1*	-Rear, about 1280 meters 271°54′ from front.	34° 54.5′ N 139° 55.8′ E	**F.G.**	39 **12**	8	White tower; 30.	
4990 *M 6457.4*	Otohama Ko.	34° 54.6′ N 139° 55.7′ E	**Fl.R.** period 3s	56 **17**	3	Red tower; 32.	
4992 *M 6456*	**Najima Saki.**	34° 54.1′ N 139° 53.3′ E	**Fl.W.R.** period 15s	125 **38**	**17**	White octagonal concrete tower; 95.	W. 254°-080°, R.-101°.
	RAMARK						
5000 *M 6455*	Tomisaki Ko, S. breakwater, head.	34° 55.2′ N 139° 49.4′ E	**F.Fl.R.** period 6s	33 **10**	F. 2 Fl. 5	Red tower; 27.	
5004 *M 6452*	**Suno Saki.**	34° 58.5′ N 139° 45.5′ E	**Al.Fl.W.R.** period 30s	146 **44**	**18**	White tower; 49.	Visible 002°-252°.
	TATEYAMA WAN:						
5012 *M 6451*	-Tateyama Ko, breakwater, head.	34° 59.3′ N 139° 50.9′ E	**Fl.G.** period 3s	36 **11**	5	White tower; 26.	
5016 *M 6451.2*	--Heliport AVIATION LIGHT.	34° 59.1′ N 139° 50.4′ E	**Al.Fl.W.G.** period 10s	59 **18**	W. 9 G. 6	Metal framework tower.	Maintained by National Defense Agency.
5020 *M 6448*	-Funagata Ko, breakwater, head.	35° 01.3′ N 139° 50.7′ E	**Fl.(2)G.** period 6s	33 **10**	5	White tower; 23.	

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			JAPAN-HONSHU-EAST COAST				
5024 *M 6448.4*	--E. breakwater, head.	35° 01.4′ N 139° 50.8′ E	**Iso.R.** period 6s	30 **9**	5	Red round concrete tower; 28.	
5028 *M 6447*	-Hunagata Hira Sima.	35° 01.5′ N 139° 50.3′ E	**Fl.W.** period 4s	36 **11**	5	White round concrete tower; 31.	
5030 *M 6446.5*	Tomiura Wan, breakwater.	35° 02.5′ N 139° 49.3′ E	**Fl.(2)R.** period 6s	26 **8**	5	Red tower; 19.	
5036 *M 6445.5*	Kachiyama Ko, N. breakwater.	35° 06.6′ N 139° 49.6′ E	**Fl.R.** period 5s	39 **12**	5	Red tower; 30.	
5040 *M 6445*	Hota Ko, breakwater.	35° 08.0′ N 139° 50.1′ E	**F.Fl.G.** period 5s	33 **10**	F. 2 Fl. 5	White round concrete tower; 27.	
5044 *M 6354*	**Tsurugi Saki.**	35° 08.5′ N 139° 40.6′ E	**Al.Fl.(2+1)W.G.** period 30s	133 **41**	**17**	White octagonal concrete tower; 56.	Visible 207°-075°.
5048 *M 6354.3*	Makuchi Ko.	35° 08.6′ N 139° 40.7′ E	**Fl.W.** period 4s	36 **11**	5	White tower; 32.	
5051 *M 6444.5*	Kanaya Ko, W. breakwater.	35° 09.9′ N 139° 49.2′ E	**Iso.R.** period 6s	33 **10**	4	Red concrete tower; 18.	
5052 *M 6444*	Hamakanaya Ko, breakwater.	35° 10.2′ N 139° 49.0′ E	**F.Fl.R.** period 5s	30 **9**	F. 4 Fl. 7	Red round concrete tower; 27.	
5052.5 *M 6443.9*	Hagyu Ko.	35° 12.0′ N 139° 49.6′ E	**Fl.R.** period 3s	20 **6**	3	Red structure; 16.	
5053 *M 6443.8*	Takeoka Ko, W. breakwater, head.	35° 12.6′ N 139° 50.6′ E	**Fl.(2)R.** period 6s	31 **9**	4	Red tower; 19.	
5054	*Uraga Suido LANBY 1.*	35° 12.5′ N 139° 46.8′ E	**Iso.W.** period 4s		11	SAFE WATER RW, buoy, topmark.	**Radar reflector.**
	RACON		**O(– – –)**		5		(3cm).
5055 *M 6359.5*	Okubo, breakwater.	35° 16.7′ N 139° 50.8′ E	**Fl.R.** period 3s	31 **9**	3	Red tower; 18.	
5055.5 *M 6443.5*	Kawana, breakwater, head.	35° 18.0′ N 139° 49.5′ E	**Fl.(2)R.** period 6s	39 **12**	5	Red tower; 30.	
	TOKYO WAN:						
5056 *M 6355*	-Ashika Shima, on rock.	35° 12.7′ N 139° 44.1′ E	**Fl.W.** period 3s	49 **15**	7	White concrete tower, black band; 46.	
5060 *M 6357*	-Kurihama Wan.	35° 13.3′ N 139° 43.2′ E	**Iso.G.** period 6s	43 **13**	8	White tower; 31.	
5064 *M 6358*	-Uraga Zyuko Atagoyama Range, front.	35° 14.4′ N 139° 43.2′ E	**F.G.**	118 **36**	6	Column, white diamond daymark; 20.	Private light.
5068 *M 6358.1*	--Rear, 27 meters 291°30′ from front.	35° 14.4′ N 139° 43.1′ E	**F.G.**	128 **39**	6	Post, white diamond daymark; 9.	Private light.
5072 *M 6359*	-Yokosuka Ko.	35° 14.8′ N 139° 44.2′ E	**Fl.G.** period 3s	39 **12**	5	White round concrete tower; 31.	
5076 *M 6360*	**-Kannon Saki.**	35° 15.4′ N 139° 44.7′ E	**Fl.(2)W.** period 15s	184 **56**	**19**	White octagonal concrete tower; 62.	Visible 152°-017°.
5080 *M 6362*	-Yokosuka Ko Hashirimizu, breakwater.	35° 15.8′ N 139° 44.0′ E	**Fl.G.** period 3s	20 **6**	4	White round concrete tower; 14.	
5084 *M 6361*	--N. breakwater.	35° 15.9′ N 139° 44.0′ E	**Fl.R.** period 3s	36 **11**	5	Red tower; 22.	
5092 *M 6368*	-Daini Kaiho (Fort No 2).	35° 18.7′ N 139° 44.5′ E	**Fl.W.R.** period 5s	66 **20**	13	White round metal tower, concrete base; 39.	R. 222°-310°, W.-222°.
	-RACON		**X(– • • –)**		9		(3cm). Located 150 meters E. of light.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			JAPAN-HONSHU-EAST COAST				
5093	*-Uraga Suido 6.*	35° 19.8′ N 139° 42.8′ E	**Iso.W.** period 4s			SAFE WATER RW, pillar, topmark.	**Radar reflector.**
	-RACON		**M(– –)**		5		(3cm).
5094	*-Nakano Se LANBY D.*	35° 24.7′ N 139° 45.5′ E	**Mo.(D)R.** period 8s		11	STARBOARD (B) R, buoy, topmark.	
	-RACON		**G(– – •)**		5		(3cm).
5095 *M 6370.09*	-Kisarazu Ko Offing.	35° 25.1′ N 139° 47.0′ E	**Mo.(A)W.** period 8s	31 **9**	5	White beacon, red bands, red circular daymark.	**Radar reflector.**

Section 4

South Coast of Honshu

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
	JAPAN-HONSHU-SOUTH COAST						
	TOKYO WAN:						
5096 *M 6441*	-Futtsu N., NE. of Futtsu Saki.	35° 19.5′ N 139° 48.7′ E	**Fl.G.** period 3s	20 **6**	5	PORT (B) G, tower, topmark; 20.	
5100 *M 6442*	-Futtsu S.	35° 19.2′ N 139° 48.8′ E	**Fl.G.** period 5s	23 **7**	5	PORT (B) G, tower, topmark; 20.	
5104 *M 6443*	-Futtsu Ko, E. breakwater.	35° 19.1′ N 139° 49.0′ E	**F.Fl.G.** period 5s	36 **11**	F. 1 Fl. 3	White tower; 27.	
5106 *M 6440.8*	--W. breakwater.	35° 20.1′ N 139° 49.3′ E	**Fl.R.** period 3s	26 **8**	4	Red tower; 19.	
5108 *M 6440.6*	-Futtsu LNG Tanker berth.	35° 20.5′ N 139° 49.4′ E	**Mo.(U)W.** period 10s	95 **29**	8		Mo.(U)W. 10s 230 meters NNW. and 200 meters SSE.
5110 *M 6440.4*	-Futtsu Passage, W. breakwater.	35° 20.9′ N 139° 49.2′ E	**Fl.G.** period 4s	30 **9**	4	White tower; 19.	
5116 *M 6439.4*	--Range, front.	35° 21.7′ N 139° 53.1′ E	**F.G.**	52 **16**	12	Framework tower, triangular daymark point up; 49.	
5120 *M 6439.41*	---Rear, about 570 meters 120° from front.	35° 21.5′ N 139° 53.5′ E	**F.G.**	125 **38**	12	Framework tower, triangular daymark point up; 121.	
5124 *M 6440*	--Breakwater, W. end.	35° 22.6′ N 139° 51.7′ E	**Iso.G.** period 4s	39 **12**	5	White round concrete tower; 30.	
	-Yokosuka Ko:						
5128 *M 6376*	--E. breakwater, N. head.	35° 19.7′ N 139° 39.8′ E	**Fl.(2)G.** period 8s	33 **10**	4	White round concrete tower; 29.	
5132 *M 6372*	--NE. breakwater, E. head.	35° 19.1′ N 139° 40.5′ E	**Fl.R.** period 3s	66 **20**	7	Red square concrete tower; 59.	
5136 *M 6378*	-Yoshikura, pier, head.	35° 17.4′ N 139° 39.2′ E	**Mo.(U)R.** period 10s	33 **10**	6	Red round tower; 19.	
5140 *M 6377*	--W. breakwater, E. head.	35° 17.3′ N 139° 41.1′ E	**Fl.(2)R.** period 6s	43 **13**	7	Red round concrete structure; 33.	
5141 *M 6377.5*	--Breakwater, NW. head.	35° 16.4′ N 139° 41.3′ E	**Fl.G.** period 3s	27 **8**	4	White tower; 19.	
5142 *M 6377.25*	Yokosuka Ko, Otsu Wan, breakwater.	35° 16.5′ N 139° 41.2′ E	**Iso.R.** period 4s	43 **13**	8	Red tower; 32.	
	-Yokohama Ko:						
5144 *M 6380*	--Kanazawa, E. breakwater, head.	35° 22.7′ N 139° 39.5′ E	**Iso.G.** period 4s	43 **13**	5	White tower; 33.	
5146 *M 6390*	--S. Honmoku Wharf, breakwater.	35° 23.7′ N 139° 40.7′ E	**Fl.R.** period 3s	22 **7**	4	Red tower; 8.	
5148 *M 6400.6*	--Nittu Honmoku Wharf Range, front.	35° 25.2′ N 139° 40.7′ E	**F.Or.**	69 **21**	11	Red mast, white bands, red triangular daymark point up; 59.	
5152 *M 6400.61*	---Rear, 200 meters 268° from front.	35° 25.2′ N 139° 40.6′ E	**F.Or.**	85 **26**	11	Red mast, white bands, red triangular daymark point up; 75.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			JAPAN-HONSHU-SOUTH COAST				
5156 *M 6401*	--Nissan Honmoku Wharf.	35° 25.3′ N 139° 40.8′ E	**Mo.(N)R.** period 8s	39 **12**	9	Red square metal framework tower; 30.	
5160 *M 6401.2*	--Gravel Wharf, breakwater.	35° 25.5′ N 139° 40.9′ E	**Oc.R.** period 4s lt. 3s, ec. 1s	39 **12**	4	Red tower; 31.	
5164 *M 6401.3*	--Light A, breakwater, S. head.	35° 25.6′ N 139° 41.2′ E	**Mo.(U)W.** period 8s	26 **8**	7	Yellow structure; 17.	
5168 *M 6401.32*	--Light B, breakwater, N. head.	35° 25.8′ N 139° 41.3′ E	**Mo.(U)W.** period 8s	26 **8**	7	Yellow structure; 17.	
5170 *M 6401.45*	--Beacon 1.	35° 26.3′ N 139° 41.8′ E	**Fl.(2)G.** period 6s	30 **9**	5	PORT (B) G, beacon, topmark; 30.	**Radar reflector.**
5171 *M 6401.47*	--Beacon 2.	35° 26.6′ N 139° 42.1′ E	**Fl.(2)R.** period 6s	31 **10**	5	STARBOARD (B) R, beacon, topmark; 30	**Radar reflector.**
5172 *M 6401.4*	--Honmoku, breakwater.	35° 26.6′ N 139° 41.3′ E	**Iso.G.** period 4s	76 **23**	12	White tower; 72.	
5176 *M 6401.6*	--Daikoku, breakwater E., head.	35° 27.4′ N 139° 42.4′ E	**Fl.G.** period 4s	52 **16**	10	White round concrete tower; 52.	
5180 *M 6401.5*	---W. head.	35° 26.9′ N 139° 41.6′ E	**Iso.R.** period 4s	75 **23**	12	Red column; 75.	
5182 *M 6401.64*	--Turumi Passage, beacon 1.	35° 27.1′ N 139° 42.8′ E	**Fl.G.** period 3s	33 **10**	5	PORT (B) G, beacon, topmark; 33.	**Radar reflector.**
5184 *M 6406*	--N. outer breakwater, S. head.	35° 27.4′ N 139° 40.5′ E	**Fl.(2)R.** period 8s	66 **20**	3	Red tower; 79.	
5188 *M 6402*	--Outer breakwater, S. light.	35° 27.2′ N 139° 40.4′ E	**Fl.(2)G.** period 8s	69 **21**	3	White round concrete tower; 79.	
5192 *M 6413*	-Lumber basin, breakwater.	35° 26.7′ N 139° 39.7′ E	**Iso.G.** period 4s	33 **10**	3	White round concrete tower; 29.	
5200 *M 6411*	--N. inner breakwater, S. head.	35° 27.6′ N 139° 39.5′ E	**Iso.R.** period 4s	49 **15**	4	Red tower; 49.	
5204 *M 6407*	--Daikoku Wharf, W. breakwater.	35° 27.8′ N 139° 40.2′ E	**Fl.R.** period 4s	39 **12**	3	Red tower; 33.	
5210 *M 6417.2*	-Turumi Passage, A, W. side.	35° 28.6′ N 139° 41.7′ E	**Fl.Y.** period 4s	20 **6**	4	SPECIAL Y, beacon, "X" topmark; 20.	
5211 *M 6417.3*	--B.	35° 28.5′ N 139° 41.1′ E	**Fl.Y.** period 4s	20 **6**	4	SPECIAL Y, beacon, "X" topmark; 20.	
5212 *M 6417.4*	--C.	35° 28.4′ N 139° 41.0′ E	**Fl.Y.** period 4s	20 **6**	4	SPECIAL Y, beacon, "X" topmark; 20.	
	-Yokyhama ko:						
5216 *M 6418*	--Light A.	35° 29.1′ N 139° 42.6′ E	**Fl.R.** period 5s	16 **5**	4	Red metal framework tower; 8.	Private light.
5220 *M 6418.2*	--Light B.	35° 29.2′ N 139° 42.7′ E	**Fl.R.** period 5s	16 **5**	4	Red metal framework tower; 8.	Private light.
5224 *M 6418.4*	-Nippon Kokan Ogi Shima Range, front.	35° 29.3′ N 139° 44.2′ E	**F.G.**	69 **21**	12	Red and white metal post, red triangular daymark point up; 66.	
5228 *M 6418.41*	--Rear, 135 meters 331° from front.	35° 29.4′ N 139° 44.2′ E	**F.G.**	89 **27**	12	Red and white metal post, red triangular daymark point down; 82.	
5232	-Kawasaki Keihin Sea Berth.	35° 27.8′ N 139° 46.3′ E	**Mo.(U)W.** period 8s		10	Mooring.	**Radar reflector.**
5236 *M 6420*	-Tonen-Ogisima.	35° 29.2′ N 139° 47.1′ E	**Mo.(U)W.** period 10s	121 **37**	11		Mo.(U)W. 10s mark berth NE. and SW. **Horn:** 1 bl. ev. 30s (bl. 3s, si. 27s). **Radar reflector.**

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			JAPAN-HONSHU-SOUTH COAST				
5241	-Tunnel Platform.	35° 29.5′ N 139° 50.1′ E	**Mo.(U)W.** period 10s	98 **30**	**16**		Fl.Y. 4s 6M beacons mark dolphins NE. and SW.
5244 *M 6419.2*	-Higasi Ogisima, breakwater, S. end.	35° 28.9′ N 139° 45.0′ E	**Fl.(2)R.** period 6s	59 **18**	7	Red tower; 52.	
5246 *M 6421.8*	-Higasi Ogisima, breakwater, N. end.	35° 29.7′ N 139° 47.0′ E	**Iso.G.** period 4s	46 **14**	7	White structure; 33.	
5248 *M 6422.2*	-Kawasaki, N. breakwater.	35° 30.5′ N 139° 46.7′ E	**Iso.R.** period 6s	25 **8**	3	Red tower; 16.	
5254 *M 6424*	-Ukisima.	35° 31.1′ N 139° 47.7′ E	**Al.W.G.** period 10s	66 **20**	W. 6 G. 5		Visible 180°-035°.
	-Haneda:						
5256 *M 6426*	--Tokyo International Airport, AVIATION LIGHT.	35° 32.7′ N 139° 45.8′ E	**Al.Fl.W.G.** period 4.3s	151 **46**	4	Framework tower.	
5268 *M 6427.17*	--W. breakwater.	35° 35.2′ N 139° 47.0′ E	**Fl.(2)G.** period 5s	33 **10**	7	White tower; 30.	
5272 *M 6427.19*	-Middle breakwater, W. head.	35° 35.5′ N 139° 47.4′ E	**Fl.(2)R.** period 5s	52 **16**	7	Red tower; 52.	
5284 *M 6427.8*	--Detached breakwater, W. end.	35° 37.1′ N 139° 49.1′ E	**Fl.R.** period 3s	39 **12**	7	Red tower; 28.	
5288 *M 6429*	Katunan Ku.	35° 39.8′ N 139° 56.2′ E	**Fl.W.** period 3s	23 **7**	6	White structure; 12.	
5292 *M 6428*	-Urayasu Offing.	35° 36.6′ N 139° 53.9′ E	**Q.(6)+L.Fl.W.** period 15s	26 **8**	7	S. CARDINAL YB, beacon, topmark; 21.	
5296 *M 6431*	Tiba Ku.	35° 36.7′ N 140° 01.4′ E	**Mo.(U)W.** period 9s	59 **18**	5		Visible 235°-215°. **Radar reflector.**
5300 *M 6432*	Chiba Ku.	35° 37.3′ N 140° 03.4′ E	**Fl.G.** period 5s	42 **13**	5	White structure; 28.	
5301 *M 6430.5*	-N. breakwater.	35° 36.7′ N 140° 04.0′ E	**Fl.W.** period 4s	16 **5**	3	White tower; 11.	
5304 *M 6430*	-Sea berth.	35° 35.8′ N 140° 04.7′ E	**Mo.(U)W.** period 15s	36 **11**	11		
5308 *M 6433*	**-Tiba.**	35° 34.1′ N 140° 02.7′ E	**Fl.(2)W.** period 30s	92 **28**	**15**	White round metal tower, white square building; 59.	
5312 *M 6433.6*	-Tiba Ko Itihara, detached breakwater.	35° 33.4′ N 140° 04.1′ E	**Fl.(2)G.** period 6s	29 **9**	5	White round concrete tower; 21.	
5316 *M 6434.2*	--Breakwater.	35° 33.2′ N 140° 04.0′ E	**Fl.(2)R.** period 7s	33 **10**	7	Red round concrete tower; 28.	
5320 *M 6434.5*	-Tiba Ko Maruzen Sekima No 1 Sea berth.	35° 32.3′ N 140° 03.4′ E	**Mo.(U)W.** period 12s	82 **25**	12		Mo.(U)W. auxiliary lights about 200 yards NE. and SSW.
5332 *M 6435*	-Chiba.	35° 30.7′ N 139° 56.2′ E	**Mo.(U)W.** period 8s	112 **34**	12		Mo.(U) 8s lights mark mooring dolphins 240m NE. and SW. **Radar reflector.**
5336 *M 6434.95*	-Tiba Ko, Sea berth.	35° 28.4′ N 139° 57.8′ E	**Mo.(U)W.** period 15s	33 **10**	12		
5340 *M 6434.9*	-Gas Sea berth.	35° 28.5′ N 139° 58.2′ E	**Mo.(U)W.** period 10s	33 **10**	12		
5341	Ukisima Tunnel, E. side, W. limit.	35° 28.2′ N 139° 52.0′ E	**Mo.(K)Y.** period 12s	22 **7**	7	SPECIAL Y, beacon, topmark; 20.	4 Fl.Y. 4s 6M beacons close SE. **Radar reflector.**
5342	-E. side, entrance.	35° 27.9′ N 139° 52.5′ E	**Al.W.R.** period 10s	121 **37**	11		Visible 317°-310°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			JAPAN-HONSHU-SOUTH COAST				
5343	--Bridge, center.	35° 27.3′ N 139° 53.2′ E	**F.R.G.**	118 **36**	R. 7 G. 8		On NE. and SW. side. Bridge marked by numerous F.W., F.Y., F.G. and F.R. lights.
	--RACON		**(– – • • •)**		5		(3cm).
5356 *M 6434.67*	-Tiba Ko, pier, middle.	35° 31.1′ N 140° 02.2′ E	**Mo.(U)W.** period 10s	112 **34**	9		Mo.(U)W. 10s lights mark dolphins NE. and SW. **Horn:** 1 bl. ev. 30s.
5364 *M 6347*	Awa Saki.	35° 07.7′ N 139° 37.8′ E	**Fl.W.** period 4s	36 **11**	5	White round concrete tower; 31.	A F.W. is shown about 200 meters SE.
5368 *M 6343*	**Joga Shima.**	35° 08.1′ N 139° 36.7′ E	**Fl.W.** period 15s	98 **30**	**16**	White round concrete tower; 39.	Visible 297°-254°.
5372 *M 6344*	I Shima.	35° 08.4′ N 139° 36.4′ E	**Fl.R.** period 4s	52 **16**	5	Red tower; 36.	
	MISAKI KO:						
5376 *M 6345*	-W. entrance, N. breakwater, head.	35° 08.4′ N 139° 36.5′ E	**Fl.G.** period 4s	42 **13**	5	White tower; 33.	
5380 *M 6349*	Misaki Ko, E. entrance, S. breakwater, head.	35° 08.1′ N 139° 37.7′ E	**Iso.G.** period 6s	43 **13**	4	White round concrete tower; 33.	
5384 *M 6342*	Moroiso Saki.	35° 09.3′ N 139° 36.5′ E	**Iso.W.** period 8s	69 **21**	5	White square concrete tower; 66.	R. light marks breakwater head 185 meters NE.
5388 *M 6338*	Kamegi Ko.	35° 11.9′ N 139° 35.1′ E	**Q.(9)W.** period 15s	46 **14**	5	W. CARDINAL YBY, tower, topmark; 43.	
5392 *M 6339*	Nagai Ko, breakwater, head.	35° 12.5′ N 139° 36.5′ E	**Iso.R.** period 4s	31 **9**	5	Red tower; 27.	
5394 *M 6340.5*	Sazima Ko.	35° 13.1′ N 139° 36.5′ E	**Fl.(2)G.** period 6s	27 **8**	3	White tower; 18.	
5396 *M 6340*	Sasima Ko Entrance, on Naka Ne.	35° 13.0′ N 139° 36.5′ E	**Fl.G.** period 3s	43 **13**	5	PORT (B) G, tower, topmark; 39.	
5398 *M 6336*	Hayama Ko.	35° 16.3′ N 139° 33.8′ E	**Fl.W.** period 3s	36 **11**	5	White tower; 33.	
5399 *M 6335*	Abuzuru-no-hana, breakwater.	35° 17.1′ N 139° 33.9′ E	**Iso.R.** period 4s	43 **13**	5	Red tower; 26.	
5400 *M 6333*	Syonan Ko, breakwater.	35° 17.9′ N 139° 29.3′ E	**Iso.G.** period 4s	62 **19**	8	White round metal tower; 59.	
5402 *M 6334*	-Kamakura, breakwater.	35° 18.3′ N 139° 29.4′ E	**Fl.R.** period 3s	36 **11**	3	Red tower; 19.	
5404 *M 6332*	**Eno Shima.**	35° 18.0′ N 139° 28.7′ E	**Fl.W.** period 10s	351 **107**	**23**	White framework tower; 197.	
5406 *M 6329*	Hiratuka Oki.	35° 18.3′ N 139° 20.8′ E	**Mo.(U)W.** period 8s	66 **20**	5		
5412 *M 6328*	Oiso Ko, breakwater, head.	35° 18.3′ N 139° 19.2′ E	**Fl.(2)G.** period 6s	46 **14**	7	White tower; 31.	
5420 *M 6326*	Odawara Ko, S. breakwater.	35° 14.3′ N 139° 09.0′ E	**Iso.G.** period 4s	59 **18**	5	White round concrete tower; 39.	
5424 *M 6323*	Manazuru Ko, N. breakwater, head.	35° 09.1′ N 139° 08.8′ E	**Fl.R.** period 4s	46 **14**	7	Red tower; 31.	
5428 *M 6318*	Fukuura Ko, E. breakwater.	35° 09.0′ N 139° 07.9′ E	**Fl.(2)R.** period 6s	40 **12**	5	Red round concrete tower; 28.	
5432 *M 6314*	Atami, breakwater, head.	35° 05.7′ N 139° 04.9′ E	**F.Fl.(2)G.** period 7s	49 **15**	F. 4 Fl. 7	White round concrete tower; 33.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			JAPAN-HONSHU-SOUTH COAST				
5440 *M 6311*	-Breakwater, head.	35° 03.0′ N 139° 05.3′ E	**F.Fl.G.** period 3s	42 **13**	F. 1 Fl. 5	White round concrete tower; 30.	
5444 *M 6309*	**Hatsu Shima.**	35° 02.3′ N 139° 10.4′ E	**Al.Fl.R.G.** period 20s	207 **63**	**16**	White tower; 52.	
5448 *M 6308*	Usami Wan, breakwater.	35° 00.4′ N 139° 05.4′ E	**F.Fl.R.** period 6s	36 **11**	F. 2 Fl. 5	Red round concrete tower; 31.	
5452 *M 6306*	Ito Ko, E. Breakwater.	34° 58.4′ N 139° 06.2′ E	**Iso.G.** period 4s	39 **12**	8	White round concrete tower; 31.	
5456 *M 6307.5*	-Outer breakwater.	34° 58.4′ N 139° 06.4′ E	**Fl.G.** period 3s	36 **11**	5	White tower; 31.	
5464 *M 6304*	Kawana Zaki.	34° 57.3′ N 139° 08.7′ E	**Iso.W.** period 4s	177 **54**	14	White tower; 43.	
5466 *M 6303.5*	Huto Ko, SE.	34° 53.8′ N 139° 08.0′ E	**Iso.G.** period 4s	33 **10**	4	White tower; 18.	
5468 *M 6303*	**Kadowaki Saki.**	34° 53.4′ N 139° 08.3′ E	**Fl.W.** period 10s	144 **44**	**18**	White tower; 82.	
5472 *M 6302.4*	Yahatano Ko, breakwater.	34° 52.0′ N 139° 06.0′ E	**Fl.G.** period 3s	36 **11**	7	White tower; 31.	
	O SHIMA:						
5476 *M 6282*	**-Izu Oshima.**	34° 47.8′ N 139° 22.3′ E	**Fl.(3)W.** period 30s	338 **103**	**19**	White tower; 52.	Visible 016°-291°.
	-RAMARK						
5480 *M 6284*	-Okada Ko, breakwater, head.	34° 47.6′ N 139° 23.3′ E	**Fl.(2)G.** period 8s	46 **14**	7	White tower; 31.	
5484 *M 6281*	-Habu Ko, on Myojin Bana.	34° 41.1′ N 139° 26.4′ E	**F.W.**	36 **11**		White round concrete tower; 15.	
5486 *M 6281.7*	-Outer breakwater.	34° 40.9′ N 139° 26.6′ E	**Fl.G.** period 4s	43 **13**	5	White structure; 23.	
5488 *M 6280*	**-Ryuo Saki.**	34° 41.1′ N 139° 26.6′ E	**Fl.W.** period 12s	220 **67**	**20**	White tower; 46.	Visible 190°-085°.
5492 *M 6281.1*	--Range, front, W. side of harbor.	34° 41.2′ N 139° 26.2′ E	**F.R.**	52 **16**	7	White round concrete tower; 39.	
5496 *M 6281.2*	---Rear, 100 meters 307°30′ from front.	34° 41.2′ N 139° 26.2′ E	**F.R.**	66 **20**	7	White round concrete tower; 56.	
5500 *M 6286*	-Motomati Ko, jetty, head.	34° 45.1′ N 139° 20.9′ E	**Fl.G.** period 3s	46 **14**	7	White round concrete tower; 39.	
5504 *M 6300*	**Inatori Misaki.**	34° 46.1′ N 139° 02.8′ E	**Al.Fl.W.G.** period 30s	236 **72**	W. **21** G. **17**	White square concrete tower; 62.	Visible 207°-029°.
5512 *M 6300.4*	-E. breakwater.	34° 46.4′ N 139° 02.8′ E	**Fl.(2)G.** period 7s	56 **17**	5	White round concrete tower; 31.	
5516 *M 6302*	-S. breakwater, head.	34° 46.4′ N 139° 02.6′ E	**Fl.G.** period 3s	31 **9**	3	White round concrete tower; 18.	
5520 *M 6300.6*	-Inatori Ko.	34° 46.4′ N 139° 02.7′ E	**Fl.R.** period 3s	46 **14**	5	Red round concrete structure; 36.	
5522 *M 6297*	Harada.	34° 42.4′ N 138° 58.8′ E	**Fl.G.** period 4s	30 **9**	3	White structure; 16.	
5524 *M 6296*	Tsumeki Saki.	34° 39.5′ N 138° 59.2′ E	**Fl.W.** period 4s	125 **38**	12	White round concrete tower; 56.	Visible 180°-062°.
5528 *M 6295*	Suzaki Ko, detached breakwater.	34° 39.3′ N 138° 58.1′ E	**Oc.R.** period 5s lt. 4s, ec. 1s	33 **10**	4	Red round concrete tower; 30.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			JAPAN-HONSHU-SOUTH COAST				
5532 *M 6294*	Yebisu Shima.	34° 39.1′ N 138° 57.9′ E	**Dir.W.R.G.**	105 **32**	W. 14 R. 10 G. 11	White round concrete tower; 43.	F.R. 049°30′-053°30′, F.W.-055°24′, F.G.-059°24′.
5536 *M 6292*	Susari Saki.	34° 39.3′ N 138° 57.4′ E	**Iso.W.R.** period 6s	49 **15**	12	White round concrete tower; 26.	R. 279°-325°, W.-182°.
5540 *M 6293.3*	-E. breakwater, head.	34° 39.9′ N 138° 57.3′ E	**Fl.R.** period 3s	33 **10**	5	Red round concrete tower; 27.	
5544 *M 6293*	-W. breakwater.	34° 40.2′ N 138° 57.3′ E	**Fl.G.** period 3s	32 **10**	3	White round concrete tower; 29.	
5546 *M 6291*	Tozi, S. breakwater.	34° 38.2′ N 138° 54.8′ E	**Fl.G.** period 3s	33 **10**	3	White tower; 17.	
5548 *M 6290*	**Mikomoto Jima.**	34° 34.5′ N 138° 56.5′ E	**Fl.(2)W.** period 16s	167 **51**	**19**	White round stone tower, black bands; 75.	Storm signals.
	RACON		**X(– • • –)**				(3cm).
5552 *M 6273.5*	**To Shima.**	34° 31.8′ N 139° 16.6′ E	**Fl.W.** period 6s	217 **66**	**20**	White round concrete tower; 43.	Visible 070°-270°.
5556 *M 6272*	**Nii Shima.**	34° 20.1′ N 139° 16.2′ E	**Fl.W.** period 8s	331 **101**	**20**	White tower; 43.	Visible 205°-097°.
5558 *M 6272.5*	-Breakwater.	34° 22.2′ N 139° 14.5′ E	**Fl.R.** period 3s	43 **13**	7	Red tower; 30.	
5560 *M 6273*	Shikine Shima.	34° 19.2′ N 139° 13.2′ E	**Fl.W.** period 3s	43 **13**	7	White round concrete tower; 36.	
5562 *M 6272.8*	-N. side of island.	34° 20.0′ N 139° 13.0′ E	**Iso.R.** period 4s	46 **14**	8	Red round concrete tower; 36.	
5564 *M 6274*	**Kozushima.**	34° 11.4′ N 139° 07.4′ E	**Fl.W.R.** period 12s	397 **121**	**20**	White round concrete tower; 49.	W. 290°-077°, R.-090°, W.-189°.
5566 *M 6274.8*	-Izu Miura Ko, breakwater.	34° 12.0′ N 139° 09.3′ E	**Fl.G.** period 3s	66 **20**	5	White tower; 18.	
5568 *M 6274.4*	-W. side.	34° 12.5′ N 139° 07.7′ E	**Fl.R.** period 4s	39 **12**	5	Red tower; 26.	
5572 *M 6270*	**Iro Saki.**	34° 36.2′ N 138° 50.7′ E	**Al.Fl.W.R.** period 16s	197 **60**	**18**	White round concrete tower; 36.	Visible 241°-098°.
5576 *M 6270.4*	-	34° 36.2′ N 138° 50.7′ E	**Dir.W.R.G.**	210 **64**	W. 14 R. 11 G. 12	White tower; 25.	F.R. 243°57′-247°57′, F.W.-249°03′, F.G.-253°03′.
5580 *M 6269.6*	Mera, breakwater.	34° 39.8′ N 138° 46.9′ E	**Fl.(2)R.** period 6s	56 **17**	5	Red structure; 33.	
5584 *M 6269.5*	**Hagati Saki.**	34° 41.4′ N 138° 44.5′ E	**Fl.W.** period 5s	381 **116**	**19**	White metal column; 46.	Visible 346°-177°.
5588 *M 6269.3*	Matsuzaki Ko, breakwater.	34° 45.3′ N 138° 46.3′ E	**Iso.R.** period 4s	39 **12**	5	Red tower; 27.	
5592 *M 6269.27*	-SE. of Nishina.	34° 46.4′ N 138° 46.0′ E	**Fl.R.** period 3s	39 **12**	4	Red round concrete tower; 31.	
5600 *M 6269.2*	Tago Shima.	34° 48.6′ N 138° 44.7′ E	**Fl.W.** period 3s	102 **31**	7	White round concrete tower; 29.	
5602 *M 6269.22*	-Breakwater, head.	34° 48.3′ N 138° 45.6′ E	**Fl.G.** period 3s	33 **10**	3	White tower; 27.	
5604 *M 6269*	Arari Ko.	34° 49.7′ N 138° 45.9′ E	**Iso.W.** period 6s	43 **13**	8	White round concrete tower; 36.	
5608 *M 6268.9*	Ugusu Ko, W. breakwater, head.	34° 50.9′ N 138° 46.3′ E	**Fl.R.** period 4s	39 **12**	7	Red tower; 33.	
5612 *M 6268.8*	Toi Ko, breakwater.	34° 54.8′ N 138° 47.2′ E	**Fl.R.** period 4s	36 **11**	5	Red framework tower; 28.	

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			JAPAN-HONSHU-SOUTH COAST				
5616 *M 6268.2*	Heda Ko, about 1,360 meters 227° from Sototakumi Yama summit.	34° 58.5′ N 138° 45.8′ E	**Iso.W.** period 6s	56 **17**	12	White round concrete tower; 36.	
5620 *M 6268.4*	-Breakwater.	34° 58.2′ N 138° 46.6′ E	**Iso.G.** period 6s	33 **10**	4	White round concrete tower; 27.	
5624 *M 6264*	Tagonoura Ko, E. breakwater.	35° 08.1′ N 138° 42.0′ E	**Iso.R.** period 6s	53 **16**	5	Red round concrete tower; 46.	
5628 *M 6264.2*	-W. breakwater.	35° 08.1′ N 138° 41.9′ E	**Iso.G.** period 6s	53 **16**	5	White round concrete tower; 49.	
5632 *M 6265*	-Range, front.	35° 08.6′ N 138° 41.4′ E	**F.G.**	138 **42**	10	White framework tower; 131.	
5636 *M 6265.1*	-Rear, 215 meters 323°30′ from front.	35° 08.7′ N 138° 41.3′ E	**F.G.**	161 **49**	10	White framework tower; 131.	
5640 *M 6266*	Numazu Ko, training wall.	35° 04.7′ N 138° 51.1′ E	**Fl.(2)R.** period 6s	30 **9**	5	Red metal framework tower; 18.	
5644 *M 6266.4*	-W. breakwater, head.	35° 04.8′ N 138° 51.1′ E	**Iso.G.** period 4s	46 **14**	5	White tower; 31.	
5646	Uri-shima, breakwater.	35° 03.5′ N 138° 52.7′ E	**Fl.R.** period 4s	26 **8**	6		
5648 *M 6267.5*	Shizuura Ko, Okino-Shima.	35° 02.9′ N 138° 53.8′ E	**Fl.G.** period 3s	32 **10**	5	White tower; 26.	
5652 *M 6267.4*	Shizuura Ko Kuchino.	35° 02.6′ N 138° 53.8′ E	**Fl.R.** period 3s	23 **7**	3	STARBOARD (B) R, tower, topmark; 19.	
5656 *M 6267.6*	Awa Sima.	35° 02.1′ N 138° 53.2′ E	**Fl.(2)W.** period 7s	33 **10**	7	White concrete column, red bands; 27.	
5660 *M 6267.64*	Nishiura Kisho, breakwater, head.	35° 01.7′ N 138° 52.7′ E	**Iso.R.** period 4s	36 **11**	4	Red tower; 30.	
5662 *M 6267.68*	Mito Hakuti, breakwater.	35° 01.5′ N 138° 53.7′ E	**Fl.G.** period 3s	26 **8**	5	White tower; 18.	
5663 *M 6267.69*	-S. breakwater.	35° 01.5′ N 138° 53.8′ E	**Fl.R.** period 3s	22 **7**	4	Red tower; 19.	
5664 *M 6267.7*	Izu Ose Saki.	35° 01.8′ N 138° 47.3′ E	**Fl.(3)W.** period 13s	52 **16**	7	White tower; 39.	
5668 *M 6263*	Yui Ko, W. breakwater.	35° 06.0′ N 138° 33.6′ E	**F.Fl.G.** period 6s	43 **13**	F. 2 Fl. 5	White tower; 28.	
5676 *M 6253*	-Tonen Sea Berth.	35° 01.4′ N 138° 29.9′ E	**Mo.(U)W.** period 14s	98 **30**	10		Synchronized with 5680 and 5684.
5680 *M 6253.2*	--Auxiliary, about 250 meters N.	35° 01.6′ N 138° 30.0′ E	**Mo.(U)W.** period 14s	28 **8**	6		Synchronized with 5676 and 5684.
5684 *M 6253.4*	--Auxiliary, about 240 meters S.	35° 01.3′ N 138° 29.9′ E	**Mo.(U)W.** period 14s	28 **9**	6		Synchronized with 5676 and 5680.
5688 *M 6255*	-Eziri Basin, N. breakwater.	35° 01.0′ N 138° 29.8′ E	**Fl.R.** period 3s	30 **9**	4	Red tower; 18.	
5692 *M 6249.4*	-Outer Breakwater, S. Light.	35° 01.7′ N 138° 31.2′ E	**Fl.(3)R.** period 13s	59 **18**	7	Red tower; 52.	
5696 *M 6249.5*	--N. light.	35° 02.5′ N 138° 31.7′ E	**Iso.G.** period 8s	20 **6**	3	White tower; 11.	
5700 *M 6249*	-Ma Saki.	35° 01.2′ N 138° 31.0′ E	**Iso.W.** period 6s	36 **11**	5	White tower; 33.	
	SHIMIZU KO:						
5704 *M 6248.4*	-Miho, breakwater, NE. head.	35° 01.4′ N 138° 31.5′ E	**Fl.(3)G.** period 13s	59 **18**	7	White tower; 56.	

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			JAPAN-HONSHU-SOUTH COAST				
5708 *M 6248*	-Miho Saki.	35° 00.6′ N 138° 31.8′ E	**Fl.(2)W.** period 20s	69 **21**	14	White octagonal concrete tower; 59.	Visible 175°-017°.
5710	--Detatched breakwater, elbow.	35° 00.9′ N 138° 30.8′ E	**Fl.Y.** period 4s	14 **4**	6		
5716 *M 6262*	-Range, front.	34° 59.7′ N 138° 29.9′ E	**F.G.**	75 **23**	10	White metal tripod; 72.	
5720 *M 6262.1*	--Rear, 90 meters 181°24′ from front.	34° 59.6′ N 138° 29.9′ E	**F.G.**	95 **29**	10	White metal tripod; 88.	
5724 *M 6244*	Mochimune, W. breakwater.	34° 55.2′ N 138° 22.4′ E	**Fl.G.** period 3s	43 **13**	5	White round concrete tower; 27.	
5726 *M 6244.5*	-E. breakwater.	34° 55.2′ N 138° 22.3′ E	**Fl.R.** period 3s	39 **12**	4	Red tower; 18.	
5732 *M 6241*	-N. breakwater.	34° 52.1′ N 138° 19.7′ E	**Fl.R.** period 4s	43 **13**	4	Red tower; 33.	
5736 *M 6239.4*	-N. outer breakwater.	34° 52.1′ N 138° 20.0′ E	**Fl.(2)R.** period 7s	39 **12**	5	Red tower; 31.	
5740 *M 6239.5*	-E. breakwater.	34° 52.1′ N 138° 20.2′ E	**F.Fl.G.** period 4s	59 **18**	F. 1 Fl. 5	White tower; 36.	
5744 *M 6239*	-Kogawa, S. breakwater, head.	34° 51.2′ N 138° 19.9′ E	**Iso.G.** period 4s	57 **17**	5	White tower; 39.	
5746 *M 6238*	--Inner breakwater.	34° 51.1′ N 138° 19.8′ E	**Fl.R.** period 3s	22 **7**	3	Red tower; 11.	
5748 *M 6237*	Sizuhama, AVIATION LIGHT.	34° 48.9′ N 138° 17.4′ E	**Al.Fl.W.G.** period 10s	114 **35**	W. 9 G. 7	Metal framework tower.	
5752 *M 6236*	Oigawa Ko, S. breakwater.	34° 46.6′ N 138° 18.4′ E	**Fl.G.** period 3s	46 **14**	7	White round concrete tower; 29.	
5753 *M 6236.3*	-N.	34° 46.5′ N 138° 18.1′ E	**Fl.R.** period 4s	19 **6**	3	Red tower; 10.	
5754 *M 6236.2*	-S.	34° 46.4′ N 138° 18.1′ E	**Fl.G.** period 4s	19 **6**	3	White tower; 7.	
5756 *M 6235.5*	Yosida Gyoko, breakwater, head.	34° 44.9′ N 138° 16.0′ E	**Fl.R.** period 3s	49 **15**	7	Red tower; 32.	
5760 *M 6235*	Sagara Ko, breakwater.	34° 41.1′ N 138° 12.7′ E	**Fl.(2)G.** period 6s	49 **15**	3	White tower; 36.	
5762 *M 6235.1*	-N. breakwater, head.	34° 42.1′ N 138° 13.0′ E	**Fl.G.** period 3s	33 **10**	5	White tower; 22.	
5764 *M 6234.8*	Ondo, E. breakwater, head.	34° 38.0′ N 138° 12.2′ E	**Fl.G.** period 3s	26 **8**	3	White tower; 16.	
5766 *M 6234.73*	-W. breakwater, head.	34° 38.1′ N 138° 14.0′ E	**Fl.(2)G.** period 6s	23 **7**	3	White tower; 14.	
5768 *M 6234.7*	-W. Outer breakwater, E. head.	34° 37.9′ N 138° 13.7′ E	**Fl.(2)R.** period 6s	43 **13**	5	Red tower; 33.	
5769 *M 6234.6*	--W. head.	34° 38.0′ N 138° 13.3′ E	**Fl.G.** period 5s	16 **5**	3	White tower; 8.	
5770 *M 6234.5*	-W. middle breakwater, head.	34° 37.4′ N 138° 13.4′ E	**Fl.R.** period 4s	42 **13**	3	Red round concrete tower; 32.	
5772 *M 6234*	-E. middle breakwater, head.	34° 37.3′ N 138° 13.6′ E	**Fl.W.** period 4s	42 **13**	5	White tower; 32.	
5774 *M 6233*	-E. Inner breakwater, head.	34° 36.9′ N 138° 13.3′ E	**Iso.G.** period 4s	40 **12**	4	White tower; 33.	

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			JAPAN-HONSHU-SOUTH COAST				
5778 *M 6228*	**Omaezaki.**	34° 35.8′ N 138° 13.6′ E	**Fl.W.** period 10s	177 **54**	**19**	White round brick tower; 72.	Visible 221°-104°.
	RAMARK						
5780 *M 6230*	Gozen Iwa.	34° 35.9′ N 138° 15.6′ E	**Fl.(2)W.** period 8s	59 **18**	7	White tower; 36.	
5784 *M 6226*	Water tower intake, No 1.	34° 36.9′ N 138° 08.4′ E	**Fl.(2)W.** period 5s	33 **10**	7	ISOLATED DANGER BRB, tower, topmark; 30.	Intakes 2, 3, 4 and 5 each marked by beacon BRB, Fl.(2)W. 5s 12m 7M.
5790 *M 6225*	Hukude, breakwater, head.	34° 39.6′ N 137° 54.4′ E	**Fl.G.** period 3s	36 **11**	5	White tower; 20.	
5792 *M 6224*	Tenryu Kawa, E. side.	34° 38.9′ N 137° 48.2′ E	**Iso.W.** period 6s	82 **25**	12	White tower; 52.	
5800 *M 6219*	**Maisaka.**	34° 40.7′ N 137° 36.8′ E	**Fl.W.** period 15s	122 **37**	**17**	White round concrete tower; 92.	Visible 270°-080°.
5804 *M 6221*	Hamana Ko, training wall.	34° 40.7′ N 137° 36.0′ E	**Fl.W.** period 3s	32 **10**	3	White tower; 24.	
5808 *M 6221.2*	-Head.	34° 40.4′ N 137° 35.9′ E	**Fl.(2)R.** period 7s	43 **13**	3	Red tower; 33.	
5810 *M 6218.5*	Ababane Ko.	34° 36.0′ N 137° 11.3′ E	**Fl.(2)R.** period 6s	43 **13**	7	Red tower; 31.	
5812 *M 6052*	Irago Misaki.	34° 34.8′ N 137° 01.0′ E	**Iso.W.** period 6s	53 **16**	5	White tower; 56.	Visible 285°-147°. Traffic Signals.
5816 *M 6053*	-Breakwater.	34° 35.4′ N 137° 01.2′ E	**Fl.(2)R.** period 6s	39 **12**	7	Red tower; 36.	
5820 *M 6053.4*	-Groin, 900 meters NNE. of point.	34° 35.2′ N 137° 01.3′ E	**Iso.G.** period 6s	39 **12**	4	White tower; 31.	
5822 *M 6051.5*	Segyo Se.	34° 30.5′ N 137° 01.1′ E	**Q.(3)W.** period 10s	49 **15**	6	E. CARDINAL BYB, beacon, topmark; 49.	**Radar reflector.**
5823	*Isewan.*	34° 31.0′ N 137° 03.6′ E	**Iso.W.** period 4s		8	SAFE WATER RW, buoy, topmark.	
	RACON		**G(– – •)**		5		(3cm).
5824 *M 6051*	**Kami Jima,** NE. end of island.	34° 32.9′ N 136° 59.2′ E	**Fl.(3)W.** period 30s	374 **114**	**23**	White round concrete tower, square base; 36.	Visible 140°-341°.
5832 *M 6051.3*	-NW. side of island, breakwater, head.	34° 33.0′ N 136° 58.6′ E	**Iso.G.** period 4s	39 **12**	4	White tower; 28.	
5836 *M 6055.5*	Tatsuma Saki.	34° 39.6′ N 137° 04.2′ E	**Oc.(3)W.** period 13s lt. 6s, ec. 1s lt. 2s, ec. 1s lt. 2s, ec. 1s	46 **14**	5	White tower; 33.	
	ATSUMI WAN:						
5844 *M 6217*	-Fukue Ko Ko-Nakayama, S. breakwater.	34° 39.1′ N 137° 05.5′ E	**Fl.G.** period 4s	31 **9**	3	White tower; 22.	
5848 *M 6217.4*	-Fukue Ko Mukaiyama, N. breakwater.	34° 38.3′ N 137° 06.2′ E	**Fl.R.** period 3s	29 **9**	3	Red round concrete tower; 18.	
5852 *M 6216*	-Izumi Ko, W. breakwater, head.	34° 39.4′ N 137° 09.4′ E	**Iso.R.** period 6s	29 **9**	5	Red tower; 18.	
5856 *M 6216.4*	--E. breakwater, head.	34° 39.3′ N 137° 09.4′ E	**Iso.G.** period 6s	26 **8**	4	White tower; 19.	
5858 *M 6207*	-Mikawa Ko, breakwater.	34° 48.2′ N 137° 16.0′ E	**Fl.G.** period 3s	33 **10**	3	White tower; 22.	

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5860 *M 6206*	-Miya Ko, S. breakwater, head.	34° 48.5′ N 137° 14.9′ E	**Fl.(2)G.** period 6s	30 **9**	3	White tower; 22.	
5864 *M 6204*	--S. breakwater, W. head.	34° 48.6′ N 137° 14.8′ E	**Fl.(2)R.** period 6s	30 **9**	7	Red round concrete tower; 32.	
5866 *M 6201.8*	Gamagori Ko.	34° 48.4′ N 137° 15.0′ E	**Fl.R.** period 3s	28 **9**	4	Red tower; 19.	
5868 *M 6202*	--E. breakwater.	34° 48.9′ N 137° 13.5′ E	**Iso.R.** period 4s	39 **12**	8	Red round concrete tower; 29.	
5870 *M 6201.5*	-Gamagori Ko.	34° 46.2′ N 137° 14.4′ E	**Fl.Y.** period 4s	13 **4**	5	SPECIAL Y, beacon, "X" topmark.	
5872 *M 6210*	-Tahara Ko, breakwater, head.	34° 41.5′ N 137° 14.3′ E	**Oc.R.** period 4s	42 **13**	5	Red round concrete tower; 32.	
5873 *M 6209.5*	--Hime Sima, breakwater.	34° 42.9′ N 137° 15.2′ E	**Fl.(3)R.** period 12s	46 **14**	5	Red tower; 32.	**Radar reflector.**
5874 *M 6208*	Toyohashi Ko, SW. end of detached breakwater.	34° 44.3′ N 137° 16.3′ E	**Fl.G.** period 5s	56 **17**	5	White tower; 52.	
5875 *M 6208.7*	Toyohasi Ko, jetty.	34° 43.6′ N 137° 19.7′ E	**Fl.R.** period 3s	26 **8**	4	Red tower; 19.	
5880 *M 6200*	-Katanohara Ko.	34° 47.2′ N 137° 11.5′ E	**Fl.R.** period 3s	39 **12**	5	Red tower; 28.	
5884 *M 6199*	Mikawa Nisiura.	34° 47.3′ N 137° 11.5′ E	**Fl.G.** period 3s	39 **12**	3	White tower; 28.	
5888 *M 6198*	-Hasida Hana.	34° 45.9′ N 137° 10.2′ E	**Iso.W.** period 8s	118 **36**	12	White round concrete tower, square base; 46.	Visible 266°-162°.
	MIKAWA WAN:						
5896 *M 6197.6*	-Kuramai Ko, breakwater, head.	34° 46.4′ N 137° 10.3′ E	**Fl.G.** period 3s	40 **12**	4	White round concrete tower; 28.	
5900 *M 6197*	-Tigaro Ko, breakwater.	34° 46.9′ N 137° 10.4′ E	**Fl.G.** period 5s	31 **9**	3	White tower; 22.	
5904 *M 6197.2*	-Hara Ya.	34° 46.9′ N 137° 10.3′ E	**Fl.R.** period 3s	30 **9**	4	Red tower; 27.	
5908 *M 6196.6*	-Higashi Hazu Ko Susaki, S. breakwater.	34° 47.1′ N 137° 09.8′ E	**Oc.(4)G.** period 6s	39 **12**	4	White tower; 31.	
5912 *M 6196.7*	--S. Outer breakwater.	34° 47.0′ N 137° 09.9′ E	**Iso.G.** period 4s	36 **11**	4	White framework tower; 29.	
5916 *M 6196.4*	-Higashi-Hazu Ko Nakashiba, S. breakwater.	34° 47.1′ N 137° 08.7′ E	**Fl.(2)R.** period 6s	43 **13**	3	Red tower; 28.	
5920 *M 6195.6*	Kenasi Shima.	34° 46.2′ N 137° 08.6′ E	**Fl.R.** period 3s	43 **13**	7	Red round concrete tower; 33.	
5924 *M 6196.5*	-Hazu Ko, breakwater.	34° 47.1′ N 137° 08.2′ E	**Fl.(3)R.** period 12s	39 **12**	4	Red tower; 28.	
5926 *M 6196.54*	--Breakwater, E. head.	34° 47.1′ N 137° 08.6′ E	**Fl.(2)G.** period 6s	33 **10**	3	White tower; 22.	
5928 *M 6196*	--Kuwahata, S. breakwater.	34° 47.2′ N 137° 08.2′ E	**Fl.G.** period 3s	36 **11**	3	White tower; 22.	
5932 *M 6195.4*	-Terabe, S. breakwater.	34° 47.1′ N 137° 07.2′ E	**Iso.R.** period 8s	26 **8**	4	Red tower; 17.	
5936 *M 6195*	-Nishi Hazu, S. breakwater.	34° 47.4′ N 137° 06.9′ E	**F.Fl.R.** period 6s	39 **12**	F. 1 Fl. 3	Round tower, square base; 27.	
5940 *M 6194.7*	--Toba, N. breakwater.	34° 47.0′ N 137° 06.4′ E	**Iso.G.** period 4s	33 **10**	4	White tower; 18.	

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			JAPAN-HONSHU-SOUTH COAST				
5944 *M 6194.2*	--W. breakwater.	34° 46.5′ N 137° 05.5′ E	**Fl.G.** period 3s	43 **13**	3	White round concrete tower; 33.	
5948 *M 6194.4*	Naka Shima.	34° 46.4′ N 137° 05.7′ E	**Mo.(D)R.** period 8s	33 **10**	3	STARBOARD (B) R, tower, topmark; 30.	
5952 *M 6194.5*	Akunami.	34° 46.8′ N 137° 06.0′ E	**Fl.(2)W.** period 5s	32 **10**	3	ISOLATED DANGER BRB, beacon, topmark; 30.	
5960 *M 6193*	-Yosida Ko.	34° 46.8′ N 137° 04.7′ E	**Fl.(2)R.** period 6s	20 **6**	7	STARBOARD (B) R, tower, topmark; 23.	
5962 *M 6192.3*	-W. breakwater.	34° 46.9′ N 137° 03.9′ E	**Fl.R.** period 3s	29 **9**	4	Red structure; 19.	
	CHITA WAN:						
5964 *M 6180*	-Issiki Ko, W. breakwater, head.	34° 47.3′ N 137° 00.8′ E	**Fl.G.** period 3s	43 **13**	7	White concrete column; 32.	
5968 *M 6178*	-Sako, NW. of Ishiki Villiage.	34° 49.4′ N 136° 59.8′ E	**Iso.R.** period 6s	49 **15**	9	Red round concrete tower; 43.	
5972 *M 6163.4*	-Kinuura Ko, E. breakwater, W. head.	34° 49.1′ N 136° 56.6′ E	**Fl.(2)R.** period 6s	66 **20**	5	Red round metal tower; 66.	
5980 *M 6164*	-Kinuura Ko, middle wharf.	34° 52.4′ N 136° 57.8′ E	**Fl.G.** period 4s	33 **10**	4	White round concrete tower, square base; 28.	
5984 *M 6163*	--Taketoyo.	34° 50.6′ N 136° 56.0′ E	**Iso.G.** period 6s	39 **12**	4	White tower; 32.	
5988 *M 6163.6*	--W. breakwater.	34° 49.3′ N 136° 56.3′ E	**Fl.(2)G.** period 6s	66 **20**	8	White tower; 66.	
5992 *M 6164.4*	-Handa, breakwater.	34° 52.8′ N 136° 56.6′ E	**Fl.R.** period 3s	40 **12**	3	Red tower; 31.	
6000 *M 6162*	Kowa Ko, S. breakwater.	34° 46.7′ N 136° 55.0′ E	**Fl.R.** period 5s	33 **10**	4	Red round concrete tower; 28.	
6004 *M 6162.3*	-Outer breakwater.	34° 46.6′ N 136° 55.1′ E	**Fl.G.** period 5s	39 **12**	3	White tower; 31.	
6006 *M 6161.9*	-Breakwater, head.	34° 46.0′ N 136° 55.4′ E	**Fl.(2)G.** period 6s	33 **10**	3	White tower; 19.	
6008 *M 6161.5*	Namiga Saki, Saku Shima, W. point.	34° 43.7′ N 137° 01.8′ E	**Iso.W.** period 6s	36 **11**	5	White tower; 32.	
6012 *M 6160*	Kadoishi, Chita Wan, S. entrance.	34° 42.3′ N 136° 59.3′ E	**Q.(9)W.** period 15s	43 **13**	7	W. CARDINAL YBY, beacon, topmark; 39.	
	RACON		**OE(– – – •)**		5		(3cm).
6016 *M 6159.4*	Morozaki Ko, N. Breakwater.	34° 42.6′ N 136° 58.3′ E	**Fl.R.** period 4s	30 **9**	4	Red tower; 22.	
6018 *M 6159.45*	-E. head.	34° 42.4′ N 136° 58.5′ E	**Fl.G.** period 4s	22 **7**	3	White tower; 16.	
6020 *M 6160.2*	Shimose Sho.	34° 41.9′ N 136° 59.5′ E	**Mo.(A)R.** period 8s	33 **10**	5	STARBOARD (B) R, tower, topmark; 30.	
6024 *M 6159.5*	Okiro Shima.	34° 42.0′ N 136° 58.7′ E	**Mo.(A)G.** period 8s	30 **9**	3	PORT (B) G, column, topmark; 26.	
6028 *M 6159.3*	Morosaki Ko, S. breakwater, head.	34° 41.9′ N 136° 58.5′ E	**Iso.G.** period 4s	39 **12**	8	White square concrete tower; 26.	
6032 *M 6159.2*	-Outer breakwater, E. head.	34° 42.1′ N 136° 58.7′ E	**Fl.(2)G.** period 6s	43 **13**	5	White tower; 31.	
6036 *M 6159*	Ha Shima.	34° 41.6′ N 136° 58.4′ E	**Q.(6)+L.Fl.W.** period 15s	36 **11**	5	S. CARDINAL YB, beacon, topmark; 30.	

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			JAPAN-HONSHU-SOUTH COAST				
6040 *M 6161.8*	Saku Shima, E. Light.	34° 42.8′ N 137° 03.2′ E	**Q.(6)+L.Fl.W.** period 15s	33 **10**	3	S. CARDINAL YB, beacon, topmark; 26.	
6044 *M 6161.6*	Saku Shima, Tainoura.	34° 42.9′ N 137° 02.7′ E	**Mo.(C)G.** period 13s	31 **9**	5	PORT (B) G, beacon, topmark; 26.	
6048 *M 6161.7*	-Breakwater, head.	34° 43.1′ N 137° 02.9′ E	**Oc.G.** period 8s lt. 6s, ec. 2s	30 **9**	4	White round concrete tower, square base; 26.	
6050 *M 6160.5*	-Breakwater.	34° 42.5′ N 136° 59.9′ E	**Fl.G.** period 3s	25 **8**	5	White tower; 18.	
6054 *K 6160.4*	Himaka Sima.	34° 42.2′ N 136° 59.8′ E	**Fl.(2)R.** period 6s	33 **10**	4	Red round concrete tower, square base; 22.	
6055 *M 6160.3*	Himaka Sa, SE. breakwater.	34° 42.1′ N 137° 00.6′ E	**Fl.R.** period 4s	33 **10**	4	Red tower; 22.	
6056 *M 6160.6*	Owari-O-Iso, on reef, about 3.95 km. 019° from Shino Shima.	34° 42.8′ N 137° 01.2′ E	**Q.W.**	32 **10**	5	N. CARDINAL BY, beacon, topmark; 26.	
6060 *M 6057.5*	Sinosima Ko.	34° 41.1′ N 137° 00.3′ E	**Fl.R.** period 3s	39 **12**	5	Red round tower; 30.	
6064 *M 6056.2*	Sinosima ko, breakwater, S. head.	34° 40.7′ N 136° 59.9′ E	**Fl.G.** period 3s	36 **11**	5	White tower; 29.	
6072 *M 6055*	Owari No Sima.	34° 39.4′ N 137° 00.5′ E	**Fl.(2)W.** period 7s	197 **60**	7	White square concrete tower; 32.	
6074 *M 6057.6*	Nakayama suido, No 1.	34° 37.7′ N 136° 58.6′ E	**Fl.(2)G.** period 6s	30 **9**	5	PORT (B) G, beacon, topmark.	**Radar reflector.**
6076 *M 6161*	Oi Ko, entrance, N. side.	34° 43.4′ N 136° 58.3′ E	**Q.(3)W.** period 10s	30 **9**	7	E. CARDINAL BYB, beacon, topmark; 26.	
6080 *M 6161.3*	Tokugo, Morosaki Suido.	34° 43.3′ N 136° 58.0′ E	**Fl.R.** period 3s	30 **9**	3	Red metal framework tower; 22.	
6084 *M 6161.4*	-No 2 breakwater.	34° 43.3′ N 136° 57.9′ E	**Fl.G.** period 3s	43 **13**	3	White tower; 22.	
6088 *M 6158.2*	Toyohama Ko, W. breakwater, E. head.	34° 42.2′ N 136° 56.2′ E	**Iso.G.** period 6s	33 **10**	4	White tower; 28.	
6092 *M 6158.5*	-S. breakwater.	34° 42.2′ N 136° 56.2′ E	**Fl.(2)R.** period 6s	33 **10**	7	Red round concrete tower; 25.	
6096 *M 6156*	Nakashu, W. breakwater.	34° 42.5′ N 136° 55.1′ E	**Fl.G.** period 5s	43 **13**	3	White tower; 32.	
6100 *M 6156.5*	-E. breakwater.	34° 42.5′ N 136° 55.1′ E	**Fl.R.** period 5s	46 **14**	7	Red round concrete tower, square base; 28.	
6104 *M 6146*	Utsumi Ko, S. groin.	34° 44.3′ N 136° 51.5′ E	**Fl.(2)R.** period 8s	36 **11**	3	Red tower; 16.	
6108 *M 6144*	Noma Saki, S. of point.	34° 45.5′ N 136° 50.7′ E	**Iso.W.** period 6s	66 **20**	8	White round concrete tower; 59.	Visible 326°-164°.
6110 *M 6141*	Kosugaya Ko, breakwater.	34° 49.7′ N 136° 51.8′ E	**Fl.G.** period 3s	26 **8**	3	White tower; 18.	
6110.9 *M 6138.6*	-Southwestwards.	34° 50.1′ N 136° 48.7′ E	**Mo.(U)W.** period 8s	30 **9**	4		
6112 *M 6139*	Kariya Ko, S. breakwater, head.	34° 51.3′ N 136° 51.3′ E	**Fl.R.** period 5s	43 **13**	5	Red tower; 32.	
6116 *M 6138.5*	Tokoname Ko, breakwater.	34° 52.3′ N 136° 49.8′ E	**Fl.(2)R.** period 6s	30 **9**	5	Red tower; 22.	
6120 *M 6138*	-Inner breakwater.	34° 52.7′ N 136° 50.2′ E	**Iso.R.** period 4s	25 **8**	4	Red round concrete tower; 21.	
6124 *M 6137*	Oniga Saki Ko, N. breakwater, head.	34° 54.3′ N 136° 49.2′ E	**Iso.G.** period 8s	39 **12**	4	White tower; 27.	

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6128 *M 6136*	Oniga-Saki Kamachi, N. breakwater.	34° 54.9′ N 136° 49.3′ E	**Iso.G.** period 4s	36 **11**	4	White round concrete tower; 28.	
6132 *M 6135*	Owari Ono, Yata Kawa mouth, N. side.	34° 56.0′ N 136° 49.3′ E	**Oc.G.** period 8s lt. 6s, ec. 2s	29 **9**	4	White tower; 18.	
6136 *M 6133*	**Ise Wan.**	34° 56.3′ N 136° 47.5′ E	**Fl.W.** period 10s	82 **25**	**15**	White round metal tower, piles; 66.	Signal station.
6140 *M 6095.6*	-Seaberth.	34° 55.6′ N 136° 44.4′ E	**Mo.(U)W.** period 14s	125 **38**	13		Private light. **Radar reflector.**
6140.21 *M 6095.62*	---250 meters N.	34° 55.7′ N 136° 44.4′ E	**Mo.(U)W.** period 8s		5		
6140.22 *M 6095.63*	---120 meters N.	34° 55.7′ N 136° 44.4′ E	**Mo.(U)W.** period 8s		5		
6140.31 *M 6095.64*	---100 meters S.	34° 55.5′ N 136° 44.4′ E	**Mo.(U)W.** period 8s		5		
6140.32 *M 6095.65*	---250 meters S.	34° 55.5′ N 136° 44.4′ E	**Mo.(U)W.** period 8s		5		**Horn:** 1 bl. ev. 30s.
	NAGOYA KO:						
6146 *M 6115*	-Breakwater, W. head.	35° 00.6′ N 136° 48.1′ E	**F.Fl.(2)R.** period 8s	49 **15**	F. 6 Fl. 10	Red tower; 46.	
6150	--Meikonisi.	35° 02.9′ N 136° 50.2′ E	**Iso.W.** period 4s	138 **42**	8		Center span of bridge. Iso.R. 7M, Iso.G. 9M, F.R. 6M, F.G. 7M, Fl.Y. 6M mark bridge.
6152 *M 6111*	Kuwana Ko, Ibi Kawa, training wall, head.	35° 00.0′ N 136° 43.2′ E	**Fl.W.** period 3s	33 **10**	7	White square concrete tower; 26.	
6161 *M 6110.1*	Kasumigaura Wharf, E. Range, front.	34° 59.4′ N 136° 40.3′ E	**F.G.**	79 **24**	11	White tower, white triangular daymark point up; 79.	
6161.1 *M 6110.12*	-Rear, 220 meters 266°18′ from front.	34° 59.3′ N 136° 40.1′ E	**F.G.**	102 **31**	11	White tower, white triangular daymark point up; 95.	
6162 *M 6110.15*	--NW. Range, front.	34° 59.7′ N 136° 39.8′ E	**F.R.**	85 **26**	5	White beacon, white triangular daymark point up; 85.	
6162.1 *M 6110.16*	---Rear, 140 meters 293°12′ from front.	34° 59.7′ N 136° 39.7′ E	**F.R.**	102 **31**	5	White beacon, white triangular daymark point up; 95.	
	YOKKAICHI KO:						
6164 *M 6097*	*-Cosmo Sea Berth SBM.*	34° 56.8′ N 136° 42.8′ E	**Mo.(U)W.** period 8s	26 **8**	7		**Horn:** 1 bl. ev. 30s (bl. 5s, si. 25s). **Radar reflector.**
6168 *M 6097.2*	*-Syowayokaiti Sea Berth. SBM. No 1.*	34° 55.6′ N 136° 42.4′ E	**Mo.(U)W.** period 12s		8	Superbuoy.	**Horn:** 1 bl. ev. 30s (bl. 5s, si. 25s). **Radar reflector.**
6172 *M 6097.4*	*--No 2 SBM.*	34° 55.8′ N 136° 41.5′ E	**Mo.(U)W.** period 12s		9		**Horn:** 1 bl. ev. 30s (bl. 5s, si. 25s). **Radar reflector.**
6176 *M 6098*	-S. breakwater, head.	34° 56.7′ N 136° 39.8′ E	**Oc.(3)G.** period 6s	66 **20**	8	White tower; 66.	
6180 *M 6099*	-E. breakwater.	34° 57.1′ N 136° 39.5′ E	**Iso.R.** period 6s	49 **15**	8	Red round metal tower; 43.	
6184 *M 6097.6*	-E. breakwater, N. head.	34° 58.0′ N 136° 40.2′ E	**Iso.G.** period 6s	62 **19**	8	White tower; 52.	
6192 *M 6096*	-Isozu Ko, S. breakwater.	34° 55.5′ N 136° 38.9′ E	**Iso.G.** period 6s	46 **14**	4	White tower; 32.	

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6196 *M 6095*	Suzuka Ko, S. breakwater.	34° 53.1′ N 136° 38.2′ E	**F.Fl.G.** period 3s	46 **14**	F. 1 Fl. 3	White round concrete tower; 32.	
6200 *M 6094.4*	Wakamatu Ko, S. breakwater.	34° 52.2′ N 136° 37.6′ E	**Oc.G.** period 4s	39 **12**	4	White round concrete tower; 31.	
6204 *M 6094*	Chiyosaki Ko, S. breakwater.	34° 51.3′ N 136° 37.1′ E	**Iso.G.** period 6s	43 **13**	4	White tower; 32.	
6208 *M 6093*	Shiroko Ko, S. breakwater, head.	34° 49.8′ N 136° 35.8′ E	**Oc.(2)G.** period 6s	31 **9**	8	White tower; 30.	
6209 *M 6093.6*	-Outer breakwater, N. head.	34° 49.6′ N 136° 35.8′ E	**Fl.G.** period 3s	39 **12**	3	White tower; 30.	
6210 *M 6093.5*	--S. head.	34° 49.5′ N 136° 35.6′ E	**Fl.R.** period 3s	43 **13**	3	Red tower; 31.	
6212 *M 6087*	Tsu Ko, 4 miles NNE.	34° 46.7′ N 136° 33.0′ E	**Iso.G.** period 6s	39 **12**	4	White tower; 31.	
6216	Tsu Ko, Nie Saki, Gawa, entrance.	34° 42.7′ N 136° 31.4′ E	**Iso.W.** period 8s	53 **16**	12	White square concrete tower; 27.	
6220 *M 6084*	-N. breakwater, head.	34° 42.6′ N 136° 31.7′ E	**F.Fl.G.** period 3s	36 **11**	F. 2 Fl. 5	Red tower; 17.	
6222 *M 6085*	-Breakwater, S. head.	34° 42.4′ N 136° 31.7′ E	**Fl.R.** period 3s	39 **12**	3	Red tower; 29.	
6224 *M 6082*	Tuko Iguratu, breakwater.	34° 40.8′ N 136° 33.0′ E	**Oc.(2)G.** period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	59 **18**	8	White tower; 52.	
6228 *M 6081.4*	Karasu Ko, S. breakwater.	34° 39.7′ N 136° 33.1′ E	**Iso.G.** period 6s	43 **13**	4	White round concrete tower; 30.	
6232 *M 6080*	Matsuzaka Ko, E. breakwater, head.	34° 37.0′ N 136° 33.7′ E	**Iso.G.** period 6s	39 **12**	5	White tower; 32.	
6236 *M 6081*	Ryosi Ko, W. breakwater.	34° 36.7′ N 136° 32.5′ E	**Fl.R.** period 3s	39 **12**	3	Red tower; 32.	
6240 *M 6081.2*	-Inner breakwater, head.	34° 36.6′ N 136° 31.8′ E	**Iso.R.** period 6s	39 **12**	4	Red tower; 33.	
6244 *M 6080.2*	Matsusaki Ko Range, front, wharf, head.	34° 36.7′ N 136° 33.4′ E	**Iso.W.** period 4s	39 **12**	9	White beacon, white triangular daymark point up; 39.	
6248 *M 6080.21*	-Rear, 40 meters 204°48′ from front.	34° 36.5′ N 136° 33.6′ E	**Iso.W.** period 4s	49 **15**	9	White beacon, white triangular daymark point up; 49.	
6252 *M 6074*	Oyodo Ko, N. breakwater.	34° 34.0′ N 136° 39.7′ E	**Iso.R.** period 6s	36 **11**	4	Red tower; 24.	
6254 *M 6073.5*	Muramatu Ko.	34° 33.2′ N 136° 41.3′ E	**Fl.G.** period 3s	27 **8**	4	White tower; 18.	
6255 *M 6072.1*	Toyokita Ko.	34° 32.8′ N 136° 43.1′ E	**Fl.(2)R.** period 6s	43 **13**	7	Red tower; 33.	
6260 *M 6066*	Ujiyamada Ko, N. jetty.	34° 31.8′ N 136° 45.6′ E	**Fl.R.** period 3s	32 **10**	5	Red tower; 27.	
6264 *M 6063.6*	Omura Sima.	34° 30.8′ N 136° 49.0′ E	**Mo.(D)R.** period 8s	36 **11**	5	STARBOARD (B) R, beacon, topmark; 32.	
6268 *M 6064*	Kozaki Saki.	34° 30.4′ N 136° 48.5′ E	**Iso.W.** period 8s	299 **91**	5	White tower; 23.	
6272 *M 6050.8*	-Obama Fishery Harbor.	34° 30.0′ N 136° 50.1′ E	**Fl.(2)G.** period 6s	30 **9**	3	White round concrete tower; 26.	

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	TOBA KO:						
6276 *M 6050*	-Toba Ko, entrance range, front.	34° 29.2′ N 136° 50.5′ E	**F.R.**	141 **43**	8	White framework tower; 79.	
6280 *M 6050.1*	--Rear, 200 meters 243° 36′ from front.	34° 29.1′ N 136° 50.4′ E	**Iso.R.** period 4s	194 **59**	8	White tower; 25.	
6284 *M 6050.3*	-E. breakwater.	34° 29.5′ N 136° 50.8′ E	**F.Fl.G.** period 5s	30 **9**	F. 2 Fl. 5	White tower; 17.	
6288 *M 6047.6*	-Sakate, S. breakwater.	34° 28.9′ N 136° 51.5′ E	**Iso.R.** period 6s	26 **8**	4	Red round concrete tower; 18.	
6292 *M 6063*	-Shimaga Saki.	34° 30.5′ N 136° 50.8′ E	**Fl.(2)W.** period 7s	95 **29**	5	White concrete cross; 33.	
6294 *M 6063.5*	Momotori Ko, W. breakwater.	34° 30.8′ N 136° 51.0′ E	**Fl.G.** period 3s	27 **8**	3	White tower; 18.	
6296 *M 6063.4*	-E. breakwater.	34° 31.0′ N 136° 51.3′ E	**Fl.R.** period 3s	27 **8**	4	Red tower; 17.	
6300 *M 6047.4*	-Seigan Shima.	34° 29.0′ N 136° 52.0′ E	**Fl.(2)W.** period 5s	29 **9**	5	ISOLATED DANGER BRB, beacon, topmark; 33.	
6304 *M 6047.8*	-Maruyama Saki.	34° 29.4′ N 136° 52.0′ E	**Mo.(C)G.** period 10s	32 **10**	5	PORT (B) G, beacon, topmark; 30.	
6307 *M 6036.3*	Koka Ko.	34° 19.1′ N 136° 53.4′ E	**Fl.G.** period 3s	30 **9**	3	White tower; 16.	
6308 *M 6057.8*	Tosi Ko, N. breakwater, head.	34° 32.1′ N 136° 54.1′ E	**Fl.G** period 4s	30 **9**	3	White tower; 18.	
6312 *M 6058*	Toshi Ko, S. breakwater, head.	34° 31.9′ N 136° 54.3′ E	**Oc.G.** period 4s lt. 3s, ec. 1s	46 **14**	5	White round concrete tower; 28.	
6316 *M 6059*	Toshi Wagu Ko, S. breakwater.	34° 31.3′ N 136° 53.8′ E	**Fl.R.** period 3s	30 **9**	4	Red tower; 18.	
6320 *M 6048.5*	Sugashima Ko, N. breakwater.	34° 30.1′ N 136° 54.0′ E	**Fl.(2)G.** period 6s	42 **13**	3	White tower; 31.	
6324 *M 6049*	-S. breakwater.	34° 29.9′ N 136° 53.8′ E	**Iso.G.** period 6s	39 **12**	4	White round concrete tower; 28.	
6328 *M 6048*	Suga Shima.	34° 30.0′ N 136° 54.5′ E	**Fl.W.** period 4s	181 **55**	7	White round brick tower; 36.	Visible 156°-008°.
6330 *M 6047.2*	Arasima, breakwater, S. head.	34° 27.7′ N 136° 52.2′ E	**Fl.R.** period 3s	26 **8**	3	Red tower; 19.	
6332 *M 6047*	Maenage Se.	34° 26.9′ N 136° 53.2′ E	**Mo.(D)R.** period 8s	30 **9**	4	STARBOARD (B) R, beacon, topmark; 30.	
6336 *M 6046*	Ijika.	34° 26.7′ N 136° 55.4′ E	**Fl.(2)W.** period 7s	125 **38**	7	White octagonal concrete tower; 33.	
6340 *M 6046.3*	-Breakwater.	34° 26.8′ N 136° 55.4′ E	**Fl.G.** period 3s	33 **10**	3	White round concrete tower; 16.	
6344 *M 6045*	Yoroi Zaki.	34° 24.8′ N 136° 55.7′ E	**Iso.W.** period 6s	89 **27**	5	White tower; 30.	
6348 *M 6045.2*	Kusaki Ko, S. breakwater.	34° 24.6′ N 136° 55.4′ E	**Fl.R.** period 5s	43 **13**	4	Red tower; 27.	
6352 *M 6042.3*	Osatsu, breakwater.	34° 23.2′ N 136° 54.6′ E	**Iso.R.** period 6s	39 **12**	4	Red tower; 31.	
6356 *M 6042*	**Anori Saki.**	34° 21.9′ N 136° 54.5′ E	**Fl.W.** period 15s	108 **33**	**16**	White square concrete tower; 49.	Visible 093°-033°. Storm signals.
6360 *M 6044.5*	-Matoya Ko, inside of Suga Saki.	34° 22.7′ N 136° 54.0′ E	**Fl.G.**	36 **11**	3	White round concrete tower; 33.	Visible 200°-084°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			JAPAN-HONSHU-SOUTH COAST				
6362 *M 6042.4*	-E. breakwater.	34° 21.9′ N 136° 53.8′ E	**Iso.G.** period 6s	39 **12**	4	White metal framework tower; 27.	
6364 *M 6042.46*	-W. breakwater, head.	34° 21.9′ N 136° 53.8′ E	**Fl.R.** period 4s	36 **11**	3	Red round concrete tower; 30.	
6368 *M 6042.6*	-Oki Se.	34° 22.0′ N 136° 53.0′ E	**Fl.R.** period 3s	39 **12**	5	STARBOARD (B) R, beacon, topmark; 36.	
6372 *M 6044*	-Watakano Shima, breakwater.	34° 21.6′ N 136° 52.6′ E	**Iso.R.** period 6s	36 **11**	4	Red round concrete tower; 31.	
6374 *M 6042.25*	-SE. breakwater.	34° 22.0′ N 136° 54.4′ E	**Fl.(2)G.** period 6s	36 **11**	3	White tower; 31.	
6376 *M 6038*	Nakiri Ko, inner breakwater.	34° 16.9′ N 136° 54.0′ E	**Fl.G.** period 3s	43 **13**	4	White round concrete tower; 30.	
6378 *M 6038.2*	-Outer breakwater, head.	34° 17.0′ N 136° 54.2′ E	**Oc.G.** period 4s	57 **17**	4	Green tower; 36.	
6380 *M 6036.4*	Nada Miyauzi Sima.	34° 17.5′ N 136° 53.6′ E	**F.W.**	95 **29**		White round concrete tower; 33.	Illuminates white beacon on Miyauzi Sima 300 meters ENE.
6384 *M 6036*	**Daio Saki.**	34° 16.6′ N 136° 54.0′ E	**Al.Fl.W.R.** period 30s	151 **46**	W. **18** R. **17**	White round concrete tower; 75.	Visible 199°-079°.
			F.R.				Visible 043°-079°.
6388 *M 6036.2*	Daio Zaki N.	34° 16.7′ N 136° 54.0′ E	**F.W.**	89 **27**		White tower; 10.	Illuminates Daio Iwa about 980 meters ENE.
6392 *M 6033.41*	Fukaya Suido, entrance.	34° 15.8′ N 136° 51.7′ E	**Fl.W.** period 3s	46 **14**	5	White round concrete tower; 30.	Visible 265°-095°.
6396 *M 6034.2*	Mugi Saki.	34° 14.8′ N 136° 50.9′ E	**Iso.W.** period 6s	92 **28**	8	White tower; 52.	
6400 *M 6034.5*	Katada Ko, S. breakwater.	34° 14.9′ N 136° 50.6′ E	**F.Fl.R.** period 5s	46 **14**	F. 2 Fl. 5	Red tower; 30.	
6404 *M 6033.8*	Onaga Iso.	34° 14.0′ N 136° 49.9′ E	**Fl.(2)G.** period 6s	52 **16**	7	PORT (B) G, beacon, topmark; 59.	
6408 *M 6033.7*	Fuseda.	34° 14.3′ N 136° 48.3′ E	**Mo.(C)G.** period 13s	49 **15**	7	PORT (B) G, beacon, topmark; 56.	
6412 *M 6033.5*	Wagu Ko, E. breakwater.	34° 15.1′ N 136° 48.3′ E	**Oc.R.** period 4s lt. 3s, ec. 1s	43 **13**	5	Red round concrete tower; 31.	
6414 *M 6033.6*	-Outer breakwater.	34° 15.0′ N 136° 48.4′ E	**Fl.G.** period 3s	42 **13**	4	White tower; 28.	
6416 *M 6033.46*	Iwai Misaki.	34° 15.7′ N 136° 46.0′ E	**F.W.**	121 **37**		White round concrete tower; 59.	Illuminates Yasuri Saki 550 meters WSW.
6420 *M 6032.7*	**Goza Misaki.**	34° 16.2′ N 136° 45.1′ E	**Fl.W.** period 10s	322 **98**	**23**	White round concrete tower, square base; 46.	Visible 295°-180°.
6424 *M 6033.3*	Goza Ko, W. breakwater.	34° 16.7′ N 136° 46.2′ E	**Fl.(2)R.** period 6s	26 **8**	4	Red round concrete tower; 18.	
6428 *M 6033.31*	Yatorino Se, on rock.	34° 16.6′ N 136° 48.8′ E	**Fl.(2)W.** period 5s	30 **9**	3	ISOLATED DANGER BRB, beacon, topmark; 26.	
6432 *M 6033.32*	O Hana.	34° 16.1′ N 136° 50.2′ E	**Fl.W.** period 3s	33 **10**	3	White tower; 31.	
6436 *M 6033.42*	Masaka Shima.	34° 17.0′ N 136° 48.7′ E	**Fl.R.** period 4s	33 **10**	5	Red tower; 31.	
6440 *M 6033*	Hamajima Ko, on Yatori Islet.	34° 17.5′ N 136° 45.9′ E	**Fl.W.** period 4s	66 **20**	5	White tower; 27.	
6444 *M 6033.2*	-Breakwater.	34° 17.7′ N 136° 45.8′ E	**Oc.G.** period 8s lt. 6s, ec. 2s	39 **12**	4	White tower; 31.	

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			JAPAN-HONSHU-SOUTH COAST				
6448 *M 6032*	Taso Saki.	34° 17.3′ N 136° 41.3′ E	**Fl.(2)W.** period 6s	318 **97**	7	White round concrete tower; 33.	
6452 *M 6031*	-Katsurs, on breakwater.	34° 17.7′ N 136° 41.0′ E	**Oc.(2)R.** period 4s lt. 3s, ec. 1s	46 **14**	4	Red round concrete tower; 30.	
6456 *M 6032.2*	Gokasho Ko, O Shima.	34° 18.3′ N 136° 40.4′ E	**Fl.(3)W.** period 12s	49 **15**	5	White tower; 32.	
6460 *M 6032.4*	Mabana Shima.	34° 19.2′ N 136° 41.0′ E	**Fl.W.** period 4s	56 **17**	5	White round concrete tower; 33.	
6464 *M 6032.3*	Hazama Ura.	34° 19.0′ N 136° 41.0′ E	**Fl.G.** period 3s	36 **11**	3	White round concrete tower; 26.	
6468 *M 6032.5*	Gokasho Ko, Sone Se.	34° 20.0′ N 136° 42.0′ E	**Mo.(A)R.** period 8s	31 **9**	5	STARBOARD (B) R, beacon, topmark; 30.	
6472 *M 6032.6*	Gokasyo Ura.	34° 20.6′ N 136° 42.1′ E	**F.Fl.R.** period 5s	36 **11**	F. 2 Fl. 5	Red round concrete tower; 32.	
6476 *M 6028*	Oguara Ko, W. side of bay, breakwater, head.	34° 17.5′ N 136° 39.3′ E	**Iso.R.** period 6s	25 **8**	4	Red tower; 20.	
6480	Tasikara Wan.	34° 16.0′ N 136° 33.0′ E	**Oc.R.** period 8s	39 **12**	11	Red tower; 33.	
6484 *M 6027.6*	Nieura Ko.	34° 16.6′ N 136° 33.3′ E	**Fl.R.** period 3s	39 **12**	3	Red tower; 31.	
6488 *M 6027.5*	Asoura Ko, jetty.	34° 16.5′ N 136° 34.7′ E	**Fl.R.** period 3s	49 **15**	4	Red tower; 36.	Visible 009°-253°.
6492 *M 6027.4*	Mie Shima.	34° 14.6′ N 136° 33.3′ E	**Fl.W.** period 5s	220 **67**	7	White square concrete tower; 23.	
6496 *M 6027.3*	Nayaura Naka-no-Sima.	34° 15.9′ N 136° 32.0′ E	**Fl.(2)R.** period 6s	27 **8**	2	Red tower; 13.	
6500 *M 6027.15*	Yosizu Ko.	34° 16.5′ N 136° 32.4′ E	**Iso.R.** period 6s	39 **12**	4	Red tower; 33.	
6504 *M 6027.17*	-W. breakwater, head.	34° 16.5′ N 136° 32.4′ E	**Iso.G.** period 6s	39 **12**	4	White tower; 33.	
6508 *M 6026.5*	Mijojino Se, Kanzaki Wan.	34° 15.4′ N 136° 31.1′ E	**Fl.(2)W.** period 5s	42 **13**	5	ISOLATED DANGER BRB, tower, topmark; 36.	
6512 *M 6027*	Yoshizu.	34° 16.3′ N 136° 30.3′ E	**Iso.W.** period 6s	184 **56**	4	White tower; 32.	
6516 *M 6026.4*	Hoza Ko.	34° 15.3′ N 136° 29.9′ E	**Dir.W.R.G.**	135 **41**	W. 13 R. 11 G. 10	White tower; 23.	F.R. 322°30′-327°30′, F.W.-329°, F.G.-334°.
6520 *M 6026.3*	Kowaura.	34° 14.8′ N 136° 27.4′ E	**Iso.W.** period 8s	36 **11**	4	White tower; 26.	
6522 *M 6026.35*	Kowaura Wan.	34° 15.2′ N 136° 27.7′ E	**Fl.G.** period 3s	30 **9**	3	White tower; 18.	
6524 *M 6025*	Nishiki.	34° 13.0′ N 136° 23.3′ E	**Iso.W.** period 6s	144 **44**	5	White round concrete tower; 33.	
6528 *M 6025.6*	-Breakwater.	34° 12.8′ N 136° 24.0′ E	**Fl.(2)R.** period 6s	46 **14**	4	Red tower; 28.	
6536 *M 6025.4*	Nisiki Ko, E. outer breakwater.	34° 12.7′ N 136° 23.5′ E	**Fl.R.** period 3s	52 **16**	3	Red tower; 31.	
6537 *M 6025.7*	-W. breakwater, head.	34° 12.9′ N 136° 23.6′ E	**Iso.G.** period 6s	36 **11**	4	White tower; 28.	
6540 *M 6024.8*	Kome Shima.	34° 11.5′ N 136° 24.2′ E	**Fl.W.** period 3s	75 **23**	5	White tower; 30.	
6544 *M 6023.8*	O Lsi.	34° 11.1′ N 136° 21.5′ E	**Fl.(2)R.** period 6s	69 **21**	5	White round concrete tower; 27.	

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			JAPAN-HONSHU-SOUTH COAST				
6548 *M 6022*	-Nagashima O Shima.	34° 09.0′ N 136° 21.9′ E	**Fl.(2)W.** period 6s	322 **98**	7	White tower; 30.	
6552 *M 6024*	Nagashima Ko, breakwater.	34° 11.9′ N 136° 20.4′ E	**Iso.G.** period 6s	49 **15**	5	White tower; 36.	
6558 *M 6022.7*	-Breakwater, head.	34° 09.6′ N 136° 17.0′ E	**Fl.R.** period 3s	39 **12**	3	Red tower; 28.	
6560 *M 6022.4*	Utaka Bana.	34° 07.9′ N 136° 17.3′ E	**Iso.W.** period 6s	157 **48**	5	White tower; 23.	
6564 *M 6022.5*	-Simakatu Ura.	34° 07.8′ N 136° 17.2′ E	**Iso.G.** period 6s	39 **12**	4	White tower; 31.	
6568 *M 6022.2*	Shimakatsu.	34° 07.0′ N 136° 17.4′ E	**Fl.W.** period 5s	174 **53**	5	White tower; 30.	
6572 *M 6023.5*	-S. breakwater.	34° 06.8′ N 136° 17.7′ E	**Fl.R.** period 3s	39 **12**	3	Red round concrete tower; 31.	
6576 *M 6023*	-No 1 breakwater.	34° 06.8′ N 136° 17.7′ E	**Fl.G.** period 3s	43 **13**	3	White round concrete tower; 33.	
	OWASHI WAN:						
6580 *M 6012*	-Onaso Hana.	34° 04.9′ N 136° 16.1′ E	**Fl.(2)W.** period 6s	197 **60**	7	White round concrete tower, square base; 26.	
6584 *M 6021.5*	Hikimoto Ura.	34° 05.2′ N 136° 15.4′ E	**Fl.(2)R.** period 6s	72 **22**	5	Red tower; 31.	
6588 *M 6013*	-Nage Isi.	34° 04.7′ N 136° 14.9′ E	**Fl.W.** period 5s	49 **15**	5	White round concrete tower; 18.	
6592 *M 6021*	-Sugari Ko.	34° 06.0′ N 136° 15.7′ E	**Fl.W.** period 3s	39 **12**	3	White tower; 32.	
6596 *M 6019*	-Zingu Shima.	34° 05.7′ N 136° 14.9′ E	**Mo.(A)R.** period 8s	39 **12**	3	STARBOARD (B) R, tower, topmark; 33.	
6600 *M 6020*	-Hikimoto Ko, breakwater.	34° 06.3′ N 136° 14.6′ E	**Iso.G.** period 4s	30 **9**	4	White tower; 28.	
6604 *M 6016*	-Owashi Ko, No 1 breakwater.	34° 04.0′ N 136° 13.0′ E	**Iso.R.** period 6s	46 **14**	5	Red tower; 31.	
6608 *M 6017*	--No 2 breakwater.	34° 04.3′ N 136° 12.4′ E	**Iso.G.** period 6s	46 **14**	5	White round tower; 31.	
6612 *M 6015*	--Osone Ura, E. breakwater, head.	34° 03.8′ N 136° 13.3′ E	**Fl.G.** period 3s	43 **13**	3	White metal framework tower; 33.	
6616 *M 6014*	-Yukina Ura, N. breakwater, head.	34° 04.0′ N 136° 14.5′ E	**Iso.G.** period 4s	43 **13**	4	White metal framework tower; 31.	
6620 *M 6011*	Togashira Shima.	34° 03.6′ N 136° 15.7′ E	**Fl.W.** period 4s	423 **129**	7	White tower; 33.	F.W. about 480 meters 280° illuminates beacon 170 meters NW.
6624 *M 6010.4*	Kuki Ko Kutu Saki.	34° 00.6′ N 136° 15.5′ E	**Iso.W.** period 6s	114 **35**	4	White tower; 26.	
6628 *M 6009.2*	Hobo Ko, breakwater.	33° 56.6′ N 136° 12.1′ E	**Fl.G.** period 3s	39 **12**	3	White round concrete tower; 20.	
6632 *M 6009*	Nikijima.	33° 55.9′ N 136° 12.6′ E	**Iso.W.** period 6s	148 **45**	5	White round concrete tower; 39.	
6636 *M 6008.7*	Yuki Ko, breakwater.	33° 55.5′ N 136° 10.0′ E	**Fl.R.** period 3s	49 **15**	5	Red round concrete tower; 28.	
6640 *M 6008.5*	Ino Hana.	33° 53.1′ N 136° 07.8′ E	**Fl.(2)W.** period 7s	276 **84**	7	White tower; 33.	
6644 *M 6008*	Kodomari Ko, breakwater, head.	33° 53.6′ N 136° 07.6′ E	**F.Fl.R.** period 6s	43 **13**	F. 1 Fl. 3	Red round concrete tower; 30.	

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			JAPAN-HONSHU-SOUTH COAST				
6648 *M 6009.6*	Kajika Ko, N. breakwater.	33° 58.1′ N 136° 13.1′ E	**Fl.R.** period 4s	43 **13**	3	Red round concrete tower; 30.	
6652 *M 6009.5*	Kosugi Hana.	33° 58.5′ N 136° 13.3′ E	**Fl.W.** period 5s	98 **30**	5	White tower; 30.	
6656 *M 6009.54*	Kata O Saki.	33° 58.2′ N 136° 12.7′ E	**Iso.G.** period 6s	49 **15**	4	White round concrete tower; 28.	
6660 *M 6009.64*	Hurue Ko.	33° 58.6′ N 136° 12.5′ E	**Iso.R.** period 6s	26 **8**	4	Red round concrete tower; 29.	
6664 *M 6009.7*	Kata Wan.	33° 59.1′ N 136° 14.3′ E	**Fl.G.** period 3s	26 **8**	3	White tower; 21.	
6668 *M 6010*	**Miki Saki.**	33° 58.4′ N 136° 16.2′ E	**Fl.W.** period 12s	489 **149**	**21**	White round concrete tower; 46.	Visible 185°-055°.
6672 *M 6010.2*	Haita Entrance.	33° 59.6′ N 136° 15.6′ E	**Oc.W.** period 4s lt. 3s, ec. 1s	154 **47**	5	White tower; 25.	
6676 *M 6010.3*	Haita Ko.	34° 59.8′ N 136° 15.5′ E	**Fl.R.** period 3s	39 **12**	3	Red tower; 31.	
6678 *M 6007.5*	Udono Ko, N. breakwater.	33° 44.0′ N 136° 01.6′ E	**Fl.G.** period 3s	52 **16**	5	White tower; 36.	
6680 *M 6007.4*	Udono Ko.	33° 44.1′ N 136° 01.4′ E	**Fl.G.** period 5s	26 **8**	4	White round concrete tower, square base; 13.	
6682 *M 6007.3*	Singu Ko, detached breakwater, S. head.	33° 40.2′ N 135° 59.2′ E	**Fl.(2)R.** period 6s	52 **16**	5	Red tower; 36.	
6684 *M 6007.2*	-S. breakwater, head.	33° 40.2′ N 135° 59.5′ E	**Iso.G.** period 6s	33 **10**	5	White tower; 20.	
6688 *M 6007*	Ugui.	33° 39.0′ N 135° 58.7′ E	**Fl.W.** period 5s	174 **53**	7	White round concrete tower; 28.	
6692 *M 6007.1*	Ugui, entrance.	33° 39.1′ N 135° 58.7′ E	**Iso.R.** period 6s	43 **13**	4	Red tower; 32.	
6696 *M 6006.8*	Obera Shima.	33° 38.1′ N 135° 58.9′ E	**Fl.W.** period 3s	62 **19**	5	White tower; 49.	
6700 *M 6004*	Oto Shima.	33° 36.8′ N 135° 57.1′ E	**Fl.W.** period 3s	52 **16**	7	White tower; 33.	
6704 *M 6006*	Ketano Hana, Naka Shima, E. side.	33° 37.2′ N 135° 56.9′ E	**Iso.G.** period 8s	39 **12**	4	White tower; 28.	
6708 *M 6003*	Katsuo Jima.	33° 36.4′ N 135° 57.7′ E	**Fl.(2)W.** period 6s	66 **20**	5	White round concrete tower; 46.	
6712 *M 6003.4*	Taichi Ko, N. breakwater.	33° 35.5′ N 135° 57.0′ E	**F.Fl.R.** period 6s	49 **15**	F. 1 Fl. 3	Red tower; 29.	
6716 *M 6002*	**Kantori Saki.**	33° 34.9′ N 135° 57.5′ E	**Fl.W.** period 8s	135 **41**	**18**	White tower; 53.	F.W. illuminates Naminori Syo 630 meters SE.
6720 *M 6001.5*	Kusimoto Ko.	33° 34.5′ N 135° 56.1′ E	**Iso.W.R.** period 6s	184 **56**	12	White tower; 28.	R. 001°-031°, W.-001°. Red sector indicates sunken rocks and islets dangerous to navigation.
6724 *M 6001*	Urakami Ko Range, front.	33° 33.7′ N 135° 54.4′ E	**F.G.**	36 **11**	10	White round concrete tower, white chevron daymark point up; 33.	
6728 *M 6001.1*	-Rear, about 100 meters 259°18′ from front.	33° 33.6′ N 135° 54.4′ E	**F.G.**	69 **21**	10	White round concrete tower, white chevron daymark point up; 66.	
6732 *M 6000*	Koza Kawaguchi.	33° 30.8′ N 135° 49.7′ E	**Oc.R.** period 8s	36 **11**	4	Red tower; 28.	
6736 *M 5996.2*	Kushimoto, S. breakwater.	33° 28.3′ N 135° 47.3′ E	**Fl.G.** period 3s	46 **14**	5	White tower; 33.	

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			JAPAN-HONSHU-SOUTH COAST				
6740 *M 5996.05*	-0.5 mile S.	33° 27.8′ N 135° 47.3′ E	**Fl.(2)G.** period 6s	39 **12**	5	White round concrete tower; 31.	
6742 *M 5999*	-O Shima Sue Ko, approach.	33° 27.1′ N 135° 50.1′ E	**Fl.R.** period 3s	36 **11**	3	Red tower; 18.	
6744 *M 5997*	Kii O Shima Ko S. Breakwater, about 1207 meters 224° from Kane Yama summit.	33° 28.1′ N 135° 48.2′ E	**Oc.R.** period 8s lt. 6s, ec. 2s	39 **12**	4	Red tower; 33.	
6748 *M 5996.4*	Kusimoto Ko.	33° 27.8′ N 135° 47.9′ E	**F.Fl.(2)R.** period 6s	39 **12**	F. 1 Fl. 3	Red tower; 21.	F.W. spotlight illuminates rocks 46 meters WNW.
6752 *M 5997.3*	Tojima Saki, about 366 meters 030°15′ from Kane Yama summit.	33° 29.0′ N 135° 49.0′ E	**Fl.W.** period 3s	36 **11**	5	White round concrete tower; 23.	
6756 *M 5998*	**Kashino Saki.**	33° 28.3′ N 135° 51.8′ E	**Fl.(2)W.** period 20s	154 **47**	**18**	White tower; 49.	Visible 109°-033°.
6760 *M 5997.6*	Kashino Ko, breakwater, O Shima.	33° 28.3′ N 135° 51.2′ E	**Iso.G.** period 4s	39 **12**	4	White tower; 23.	
6768 *M 5995*	Uno Shima, NE.	33° 26.8′ N 135° 48.2′ E	**Fl.(2)W.** period 8s	69 **21**	5	White tower; 46.	
6772 *M 5995.6*	Myoga Sima.	33° 27.0′ N 135° 48.0′ E	**Fl.W.** period 3s	53 **16**	5	White round concrete tower; 43.	
6776 *M 5994*	**Shiono Misaki.**	33° 26.3′ N 135° 45.3′ E	**Fl.W.** period 15s	161 **49**	**19**	White tower; 75.	Visible 278°-130°. Signal station.
	RAMARK				**20**		
6780 *M 5996*	Kusimoto Ko, N. breakwater, head.	33° 27.9′ N 135° 47.2′ E	**Fl.R.** period 3s	42 **13**	5	Red round concrete structure; 31.	
6784 *M 5997.2*	-Kusimoto Ko, NE. breakwater, head.	33° 28.5′ N 135° 48.2′ E	**F.Fl.G.** period 5s	36 **11**	F. 1 Fl. 3	White tower; 28.	
6788 *M 5991*	Fukuro Ko Range No 1, front.	33° 28.0′ N 135° 47.0′ E	**F.G.**	36 **11**	8	Round concrete tower, white chevron daymark point up; 28.	
6792 *M 5991.1*	-Rear, about 30 meters 078°36′ from front.	33° 28.1′ N 135° 46.5′ E	**F.G.**	52 **16**	8	Round concrete tower, white chevron daymark point up; 39.	
6802 *M 5990*	Arita Ko, breakwater, head.	33° 28.7′ N 135° 44.3′ E	**Fl.R.** period 3s	46 **14**	5	Red tower; 33.	
6804 *M 5989*	Esu Zaki.	33° 29.9′ N 135° 35.6′ E	**Fl.(2)W.** period 10s	108 **33**	12	White round concrete tower; 36.	
6808 *M 5988*	Susami Ko.	33° 32.6′ N 135° 29.2′ E	**Fl.W.** period 5s	190 **58**	5	White round concrete tower; 36.	
6812 *M 5988.4*	Tenji Yama.	33° 33.0′ N 135° 30.0′ E	**Dir.W.R.G.**	82 **25**	W. 14 R. 11 G. 11	White round concrete tower; 24.	F.R. 027°30′-033°12′, F.W.-036°54′, F.G.-042°36′.
6816 *M 5987*	Hiki Ko.	33° 33.5′ N 135° 26.8′ E	**Fl.R.** period 3s	29 **9**	3	Red tower; 18.	
6820 *M 5986*	**Itie Saki.**	33° 35.3′ N 135° 24.0′ E	**Fl.W.** period 8s	312 **95**	**20**	White octagonal concrete tower; 36.	Visible 313°-145°.
6824 *M 5984*	Bansho Yama.	33° 41.5′ N 135° 20.1′ E	**Iso.W.** period 4s	122 **37**	8	White round concrete tower; 30.	
6828 *M 5979*	Siso Shima islet W. of Bansho Yama.	33° 41.6′ N 135° 19.6′ E	**Fl.W.** period 5s	46 **14**	8	White tower; 39.	
6832 *M 5978*	Tanabe Oki-no-Shima.	33° 43.1′ N 135° 19.5′ E	**Fl.W.** period 3s	49 **15**	8	White tower; 46.	
6836 *M 5977.7*	Sima - Haya Wan.	33° 44.5′ N 135° 20.0′ E	**Fl.G.** period 3s	39 **12**	5	White tower; 28.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
	TANABE KO:						
6840 *M 5977.6*	-Haya Ko, W. breakwater, head.	33° 44.3′ N 135° 21.3′ E	**Iso.G.** period 6s	36 **11**	4	White tower; 31.	
6844 *M 5980*	-Egawa, W. breakwater.	33° 43.6′ N 135° 21.7′ E	**Iso.G.** period 4s	46 **14**	4	White tower; 32.	
6848 *M 5980.9*	-Minatoura, breakwater.	33° 43.1′ N 135° 22.8′ E	**Iso.G.** period 6s	39 **12**	4	White tower; 31.	
6850 *M 5981.7*	-Breakwater, S. head.	33° 42.9′ N 135° 23.0′ E	**Fl.G.** period 3s	29 **9**	3	White tower; 18.	
6852 *M 5980.4*	--E. breakwater.	33° 43.7′ N 135° 21.9′ E	**Iso.R.** period 4s	43 **13**	5	Red round concrete tower; 29.	
6858 *M 5980.8*	-Range, front.	33° 43.7′ N 135° 22.5′ E	**F.Y.**	46 **14**	10	White tower, two red bands, white triangular daymark point up; 33.	
6860 *M 5980.61*	--Rear, 183 meters 065°36′ from front.	33° 43.6′ N 135° 22.7′ E	**F.Y.**	72 **22**	10	White tower, two red bands, white triangular daymark point up; 59.	
6864 *M 5981*	-Isoma Range, front.	33° 42.5′ N 135° 23.6′ E	**F.Y.**	26 **8**	9	White tower, white triangular daymark point up; 22.	
6868 *M 5981.1*	--Rear, 060° from front.	33° 42.7′ N 135° 23.8′ E	**F.Y.**	39 **12**	9	White tower, white triangular daymark point up; 36.	
6872 *M 5981.6*	-Mori, W. breakwater.	33° 42.9′ N 135° 23.7′ E	**F.Fl.G.** period 6s	36 **11**	F. 1 Fl. 3	White tower; 28.	
6876 *M 5981.8*	-Atonoura, breakwater.	33° 43.0′ N 135° 24.0′ E	**Fl.R.** period 3s	36 **11**	3	Red tower; 31.	
6880 *M 5977.4*	Inami Ko, E. breakwater.	33° 48.6′ N 135° 12.9′ E	**Fl.R.** period 3s	39 **12**	3	Red tower; 31.	
6884 *M 5977*	Inami Ko Yokoshima, breakwater.	33° 48.6′ N 135° 12.9′ E	**Fl.(2)R.** period 6s	43 **13**	7	Red tower; 33.	
6888 *M 5974*	Gobo Katuo Sima.	33° 51.4′ N 135° 08.8′ E	**Fl.W.** period 4s	59 **18**	5	White tower; 49.	
6892 *M 5974.5*	Gobo Ko, outer breakwater.	33° 51.9′ N 135° 08.5′ E	**Fl.R.** period 4s	69 **21**	5	Red tower; 49.	
6896 *M 5975*	Gobo Ko, Sioya Ko, S. breakwater, head.	33° 51.7′ N 135° 09.4′ E	**Iso.R.** period 4s	26 **8**	4	Red tower; 18.	

Section 5

Eastern Part of Seto Naikai

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			JAPAN-SETO NAIKAI-EASTERN PART (I)				
6900 *M 5970*	**Hino Misaki.**	33° 52.9′ N 135° 03.7′ E	**Fl.(3)W.** period 40s	460 **140**	**21**	White round concrete tower; 46.	Visible 273°-172°. Storm signal.
	RAMARK				**21**		
6904 *M 5969.6*	Ao Ko, N. breakwater, head.	33° 54.3′ N 135° 04.6′ E	**Iso.R.** period 6s	43 **13**	4	Red tower; 32.	
6908 *M 5969.7*	-E. breakwater, head.	33° 54.2′ N 135° 04.8′ E	**Iso.G.** period 6s	42 **13**	5	White round concrete tower; 32.	
6912 *M 5969.4*	Naka Iso.	33° 54.8′ N 135° 04.2′ E	**Fl.(2)W.** period 5s	56 **17**	5	ISOLATED DANGER BRB, tower, topmark; 52.	
6918 *M 5969.06*	Yura Ko.	33° 56.2′ N 135° 03.8′ E	**Fl.(2)R.** period 6s	56 **17**	5	Red tower; 33.	
6932 *M 5969.08*	Muronoki Hana.	33° 56.9′ N 135° 05.3′ E	**Fl.R.** period 3s	33 **10**	3	Red metal framework tower; 20.	
6944 *M 5968.6*	Asika Sima.	33° 58.7′ N 135° 03.6′ E	**Fl.(2)W.** period 5s	46 **14**	5	ISOLATED DANGER BRB, tower, topmark; 33.	
6946 *M 5968.5*	Ena Ko.	33° 59.4′ N 135° 06.4′ E	**Fl.(2)R.** period 6s	29 **9**	3	Red tower; 18.	
6948 *M 5968.3*	Taka Sima.	34° 00.8′ N 135° 07.5′ E	**Q.(6)+L.Fl.W.** period 15s	49 **15**	5	S. CARDINAL YB, tower, topmark; 43.	
6950 *M 5968.4*	Karao Ko.	34° 00.4′ N 135° 08.6′ E	**Fl.R.** period 5s	27 **8**	3	Red tower; 18.	
6952 *M 5968*	Yuasahiro Ko, jetty.	34° 01.6′ N 135° 10.3′ E	**Fl.(2)R.** period 6s	43 **13**	5	Red tower; 32.	
6956 *M 5967.84*	-Suhara Ko, W. breakwater, head.	34° 02.5′ N 135° 09.7′ E	**Fl.R.** period 3s	39 **12**	3	Red tower; 33.	
6958 *M 5967.82*	Oi Ko.	34° 04.2′ N 135° 06.3′ E	**Fl.G.** period 3s	46 **14**	5	White tower; 31.	
6960 *M 5967.8*	Kii Myazakino Hana.	34° 04.4′ N 135° 04.8′ E	**Oc.W.** period 8s lt. 6s, ec. 2s	265 **81**	12	White square concrete tower; 32.	
6964 *M 5967.5*	Arida Ku, breakwater, head.	34° 04.6′ N 135° 05.2′ E	**Fl.G.** period 4s	30 **9**	3	White tower; 18.	
6968 *M 5967.4*	Simotu Ko.	34° 06.8′ N 135° 04.6′ E	**Fl.W.** period 4s	308 **94**	7	White square concrete tower; 43.	
6972 *M 5967.35*	Arida Ku, sea berth.	34° 06.8′ N 135° 06.6′ E	**Mo.(U)W.** period 15s	89 **27**	9		Mo.(U)W. 15s marks N. and S. ends of berth.
6976 *M 5966.62*	Huzi Kosan.	34° 08.0′ N 135° 07.2′ E	**Mo.(U)W.** period 10s	118 **36**	11		Mo.(U)W. 10s 11M auxiliary lights 240 meters NNE. and 220 meters S. **Horn:** 2 bl. ev. 20s. **Radar reflector.**
	OSAKI WAN:						
6980 *M 5966.5*	-Tubune Hana.	34° 07.8′ N 135° 07.3′ E	**Iso.W.** period 6s	95 **29**	12	White round concrete tower; 32.	F.W. auxiliary light illuminates shoal about 280 meters SSE.
6984 *M 5967*	-Simotu Ko Kamanosita, breakwater.	34° 07.1′ N 135° 08.0′ E	**Oc.G.** period 8s lt. 6s, ec. 2s	43 **13**	5	White round concrete tower; 36.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			JAPAN-SETO NAIKAI-EASTERN PART (I)				
6988 *M 5966.8*	-Osaki Ura, breakwater.	34° 07.8′ N 135° 07.9′ E	**Iso.R.** period 4s	36 **11**	4	Red tower; 36.	
6992 *M 5967.2*	-Ushiga Kubi, breakwater.	34° 06.9′ N 135° 08.4′ E	**Iso.R.** period 4s	33 **10**	4	Red round concrete tower; 30.	
6996 *M 5967.3*	--W. breakwater, head.	34° 06.8′ N 135° 08.2′ E	**Fl.R.** period 3s	39 **12**	3	Red tower; 33.	
	KAINAN KU:						
7000 *M 5966*	-S. breakwater, head.	34° 08.7′ N 135° 11.1′ E	**Fl.R.** period 3s	39 **12**	5	Red round concrete tower; 31.	
7004 *M 5966.2*	-N. breakwater, head.	34° 08.8′ N 135° 11.0′ E	**Fl.G.** period 3s	36 **11**	5	White round concrete tower; 20.	
	WAKAYAMA KU:						
7008 *M 5965.2*	-Wakanoura Wan, W. breakwater.	34° 11.1′ N 135° 09.8′ E	**Iso.G.** period 4s	43 **13**	5	White tower; 33.	
7012 *M 5965.12*	-Outer breakwater, E. head.	34° 10.9′ N 135° 09.2′ E	**Fl.G.** period 3s	33 **10**	5	White tower; 16.	
7016 *M 5965.05*	-Saigasaki Ko, breakwater.	34° 11.2′ N 135° 08.8′ E	**Fl.(2)G.** period 8s	43 **13**	3	White tower; 30.	
7018 *M 5965*	**-Saika Saki**.	34° 11.3′ N 135° 08.5′ E	**Fl.W.** period 8s	246 **75**	**20**	White round concrete tower; 25.	
7024 *M 5962.4*	-Minami Ku Auxiliary, breakwater, head.	34° 12.8′ N 135° 07.9′ E	**Fl.R.** period 3s	16 **5**	3	Red metal column; 10.	
7028 *M 5963*	-S. breakwater, head.	34° 12.9′ N 135° 08.1′ E	**Fl.(2)R.** period 7s	43 **13**	4	Red tower; 43.	
7032 *M 5964*	-N. breakwater, head.	34° 13.0′ N 135° 07.7′ E	**Fl.(2)G.** period 7s	52 **16**	5	White tower; 46.	
7034 *M 5961.8*	-Kita Ku, N. breakwater, head.	34° 14.3′ N 135° 07.1′ E	**Iso.G.** period 6s	56 **17**	5	White round concrete tower; 46.	
7036 *M 5961.6*	--W. breakwater, head.	34° 14.1′ N 135° 07.1′ E	**Iso.R.** period 6s	53 **16**	5	Red tower; 46.	
7040 *M 5961*	Takura Saki.	34° 15.9′ N 135° 03.7′ E	**Iso.W.** period 6s	161 **49**	8	White tower; 33.	F.W. illuminates rock 300 meters NNW.
7044 *M 5576*	**I Shima.**	33° 50.7′ N 134° 48.9′ E	**Fl.W.** period 10s	472 **144**	**23**	White square concrete tower; 72.	
7048 *M 5576.4*	Isima Ko, W. breakwater.	33° 50.7′ N 134° 48.3′ E	**Fl.R.** period 3s	46 **14**	4	Red round concrete tower; 31.	
7052 *M 5577*	Kamoda Misaki.	33° 50.0′ N 134° 45.0′ E	**Fl.W.** period 3s	157 **48**	5	White round concrete tower; 39.	F.W. illuminates Sirika Bae 1200 meters SE.
7056 *M 5575.6*	-Karimata Saki.	33° 50.7′ N 134° 43.2′ E	**Oc.(2)W.** period 8s lt. 5s, ec. 1s lt. 1s, ec. 1s	72 **22**	5	White round concrete tower; 31.	
7064 *M 5575*	-Funa Iso.	33° 53.5′ N 134° 42.4′ E	**Fl.(2)W.** period 5s	56 **17**	8	ISOLATED DANGER BRB, beacon, topmark; 46.	
7066 *M 5572.5*	Tomioka Ko.	33° 55.0′ N 134° 42.1′ E	**Fl.G.** period 3s	36 **11**	5	White tower; 18.	
7068 *M 5574*	Ao Sima.	33° 55.4′ N 134° 43.2′ E	**Fl.(2)W.** period 7s	190 **58**	10	White round concrete tower; 39.	
7072 *M 5572*	Tomioka Ko, Groin.	33° 55.5′ N 134° 42.7′ E	**Fl.R.** period 3s	39 **12**	5	Red round concrete tower; 28.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			JAPAN-SETO NAIKAI-EASTERN PART (I)				
7076 *M 5571*	Nakazima Ko, S. breakwater.	33° 57.2′ N 134° 42.0′ E	**Fl.G.** period 3s	39 **12**	7	White round concrete tower; 31.	
7078 *M 5570.8*	Awaimazu Ko, breakwater.	33° 58.3′ N 134° 39.8′ E	**Fl.(2)G.** period 6s	43 **13**	7	White tower; 31.	
7080 *M 5568*	Wadano Hana, N. side of point.	34° 00.6′ N 134° 38.1′ E	**Iso.W.** period 6s	46 **14**	5	White square concrete tower; 31.	
7084 *M 5555.4*	Komatusima Ko, Offing, Wave Observation tower.	34° 02.4′ N 134° 38.5′ E	**Mo.(U)W.** period 8s	39 **12**	5	Metal framework tower.	**Radar reflector.**
7088 *M 5555*	Okame Se.	34° 02.3′ N 134° 37.9′ E	**Fl.(2)W.** period 5s	56 **17**	8	ISOLATED DANGER BRB, tower, topmark; 52.	
	KOMATSUSHIMA KO:						
7092 *M 5564*	-S. breakwater.	34° 00.4′ N 134° 35.9′ E	**Iso.G.** period 6s	33 **10**	5	White tower; 28.	
7096 *M 5565*	-Detached breakwater, S. head.	34° 00.5′ N 134° 35.9′ E	**Iso.R.** period 6s	29 **9**	5	Red tower; 28.	
7100 *M 5565.4*	--N. head	34° 00.8′ N 134° 36.0′ E	**Fl.G.** period 4s	39 **12**	5	White tower; 43.	
7104 *M 5561*	Komatsushima Ko.	34° 01.1′ N 134° 35.7′ E	**Iso.W.** period 8s	302 **92**	14	White concrete tower; 39.	
7108 *M 5562*	-Taka Sone.	34° 01.1′ N 134° 36.2′ E	**Mo.(A)R.** period 8s	33 **10**	3	STARBOARD (B) R, tower, topmark; 33.	
7112 *M 5560*	-Tuda, outer breakwater, E. head.	34° 02.8′ N 134° 36.5′ E	**Fl.G.** period 3s	43 **13**	7	White tower; 31.	
	TOKUSHIMA KO:						
7116 *M 5559*	-Outer breakwater, S. head.	34° 02.3′ N 134° 36.0′ E	**Fl.(3)R.** period 12s	39 **12**	5	Red tower; 30.	
7120 *M 5556*	--E. head.	34° 03.0′ N 134° 35.8′ E	**Fl.R.** period 4s	36 **11**	3	Red tower; 31.	
7132 *M 5554*	Imagire Ko, N. traninig wall.	34° 06.2′ N 134° 36.6′ E	**F.Fl.R.** period 6s	36 **11**	F. 2 Fl. 5	Red tower; 29.	
7136 *M 5553*	Tokusima AVIATION LIGHT.	34° 08.0′ N 134° 36.0′ E	**Al.Fl.W.G.** period 6s	89 **27**	W. 9 G. 6	Metal framework tower.	
7140 *M 5553.4*	Awazu Ko, S. breakwater, head.	34° 08.5′ N 134° 37.4′ E	**Iso.G.** period 4s	43 **13**	5	White tower; 31.	
	MUYANO SETO:						
7144 *M 5551.8*	-Oiso Saki.	34° 10.8′ N 134° 38.5′ E	**Fl.(4)W.** period 15s	125 **38**	12	White round concrete tower; 36.	
			F.W.				Illuminates white beacon on Okame Iso 600 meters E.
7146 *M 5551.9*	Muya Ko.	34° 11.1′ N 134° 38.4′ E	**Mo.(B)G.** period 8s	16 **5**	3	PORT (B) G, tower, topmark; 18.	
7148 *M 5552*	Naka Se.	34° 10.9′ N 134° 37.6′ E	**Mo.(A)R.** period 8s	36 **11**	3	STARBOARD (B) R, tower, topmark; 33.	
7152 *M 5552.4*	-Muye Ko Range, front.	34° 10.9′ N 134° 37.4′ E	**F.G.**	36 **11**	10	White round concrete tower, red bands, white triangular daymark point up; 32.	
7156 *M 5552.41*	--Rear, 50 meters 253°42′ from front.	34° 10.8′ N 134° 37.4′ E	**F.G.**	62 **19**	10	White round concrete tower, red bands, white triangular daymark point up; 59.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
7160 *M 5552.6*	-Seto Ko. Donoura, W. breakwater, head.	34° 13.1′ N 134° 35.3′ E	**Fl.G.** period 3s	33 **10**	3	White round concrete tower; 32.	
7162 *M 5552.55*	-Kameura Ko, breakwater, head.	34° 13.0′ N 134° 37.9′ E	**Fl.G.** period 3s	30 **9**	3	White tower; 16.	
	NARUTO KAIKYO:						
7164 *M 5551.75*	-Tobi Shima.	34° 13.9′ N 134° 38.9′ E	**Fl.W.** period 3s	105 **32**	7	White round concrete tower; 75.	
7168 *M 5551.5*	-Mago Saki.	34° 14.3′ N 134° 38.6′ E	**Fl.W.** period 5s	167 **51**	13	White square concrete tower; 36.	
7172 *M 5811.4*	To Saki.	34° 14.5′ N 134° 39.6′ E	**Fl.(2)W.** period 8s	192 **59**	7	White square concrete tower; 36.	
7176 *M 5812*	Turusima Hana.	34° 14.5′ N 134° 42.1′ E	**Fl.W.** period 3s	85 **26**	7	White round concrete tower; 25.	
7180 *M 5814*	Hukura Ko, on NE. part of Kemuri Shima.	34° 14.9′ N 134° 42.5′ E	**Fl.G.** period 3s	30 **9**	3	White tower; 28.	
7182 *M 5814.2*	-Breakwater, head.	34° 13.8′ N 134° 42.1′ E	**Mo.(U)W.** period 8s	23 **7**	5		
7183 *M 5814.25*	Nikoro Ko.	34° 11.5′ N 134° 44.7′ E	**Fl.G.** period 3s	39 **12**	5	White tower; 31.	
7184 *M 5570*	**Nu Sima.**	34° 10.1′ N 134° 49.7′ E	**Fl.W.** period 10s	437 **133**	**20**	White tower; 39.	
7188 *M 5570.2*	-Nusima Ko, W. breakwater, head.	34° 10.2′ N 134° 49.0′ E	**F.Fl.R.** period 3s	36 **11**	F. 2 Fl. 5	Red tower; 28.	
7192 *M 5570.5*	-Tomari Ko, training wall, head.	34° 10.3′ N 134° 49.2′ E	**Oc.R.** period 8s lt. 6s, ec. 2s	46 **14**	4	Red tower; 33.	
7196 *M 5814.3*	Nada Ko, breakwater, head.	34° 11.8′ N 134° 47.8′ E	**Iso.G.** period 6s	43 **13**	4	White tower; 28.	
7200 *M 5960*	**Tomoga Shima.**	34° 16.9′ N 135° 00.0′ E	**Al.Fl.W.R.** period 10s	197 **60**	**20**	White round stone tower; 39.	Visible 350°-232°. Reserve light range 16/13M.
7204 *M 5959*	Jinoshima, E. end.	34° 17.9′ N 135° 03.5′ E	**Fl.(2)W.** period 8s	184 **56**	5	White tower; 33.	
7206 *M 5960.5*	Kada Ko, outer breakwater.	34° 16.8′ N 135° 04.0′ E	**Fl.(2)R.** period 6s	42 **13**	5	Red tower; 36.	
7208 *M 5960.4*	Kada Ko, S. breakwater.	34° 16.6′ N 135° 04.2′ E	**Fl.R.** period 3s	30 **9**	3	Red round concrete tower; 18.	
	OSAKA WAN:						
7212 *M 5958*	-Fuke Ko, W. breakwater, head.	34° 19.2′ N 135° 08.5′ E	**Iso.R.** period 4s	39 **12**	5	Red tower; 33.	
7224 *M 5958.2*	--E. breakwater.	34° 19.3′ N 135° 08.5′ E	**Iso.G.** period 4s	42 **13**	5	White tower; 33.	
7228	-Tannowa Ko, E. breakwater.	34° 20.3′ N 135° 11.0′ E	**F.Fl.R.** period 5s	43 **13**	F. 6 Fl. 12	Red round concrete tower; 28.	
7229 *M 5957.8*	-Simosyo Ko, breakwater.	34° 20.7′ N 135° 12.5′ E	**Fl.(2)G.** period 6s	23 **7**	3	White tower; 16.	
7230 *M 5957.75*	-Ozaki Ko, outer breakwater.	34° 21.7′ N 135° 13.9′ E	**Fl.Y.** period 4s	15 **5**	3		
7230.1 *M 5957.74*	--SW. head.	34° 21.6′ N 135° 14.8′ E	**Fl.Y.** period 4s	15 **5**	3		
7230.3 *M 5957.72*	--S. detached breakwater, off N. head.	34° 21.5′ N 135° 13.8′ E	**Fl.Y.** period 4s	13 **4**	3		

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			JAPAN-SETO NAIKAI-EASTERN PART (I)				
7230.5 *M 5957.73*	---S. head.	34° 21.5′ N 135° 13.8′ E	**Fl.Y.** period 4s	13 **4**	3		
7230.6 *M 5957.7*	--Breakwater, N. Head.	34° 22.2′ N 135° 14.4′ E	**Fl.R.** period 3s	36 **11**	7	Red tower; 28.	
7231 *M 5957.62*	-Tarui, N. breakwater.	34° 23.0′ N 135° 15.6′ E	**Fl.R.** period 3s	27 **8**	3	Red tower; 21.	
7231.1 *M 5957.63*	--S. breakwater.	34° 22.9′ N 135° 15.6′ E	**Fl.G.** period 3s	27 **8**	3	White tower; 20.	
7232	*-Sumoto Offing buoy.*	34° 21.1′ N 135° 00.6′ E	**Mo.(A)W.** period 8s			SAFE WATER RW, buoy, topmark.	
	-RACON		**OE(– – – •)**		5	(3cm).	
7233 *M 5957.61*	-Okada, S. breakwater.	34° 23.5′ N 135° 16.4′ E	**Fl.R.** period 3s	21 **6**	3	Red tower; 11.	
7233.5 *M 5957.64*	--N. breakwater.	34° 23.6′ N 135° 16.5′ E	**Fl.G.** period 3s	22 **7**	3	White tower; 11.	
7234 *M 5957.5*	Sano Gyoko, detached breakwater, head.	34° 25.4′ N 135° 18.9′ E	**Fl.R.** period 4s	16 **5**	3	STARBOARD (B) R, tower, topmark.	
7235 *M 5957.52*	Hannon Ko, outer breakwater.	34° 25.4′ N 135° 18.6′ E	**Fl.(2)R.** period 5s	43 **13**	5	Round concrete tower; 28.	
7236 *M 5957.4*	Sano Gyoko.	34° 25.4′ N 135° 18.9′ E	**Fl.G.** period 4s	43 **13**	3	Red tower; 28.	
7240 *M 5957.2*	-Hannan Ko, offing, breakwater.	34° 26.2′ N 135° 19.1′ E	**Fl.(2)R.** period 7s	52 **16**	7	Red tower; 52.	
7242 *M 5955.3*	--N. breakwater, head.	34° 28.5′ N 135° 20.3′ E	**Fl.R.** period 3s	43 **13**	7	Red tower; 29.	
7244 *M 5956.2*	--Offing breakwater, SW. head.	34° 28.7′ N 135° 21.2′ E	**Fl.(2)G.** period 6s	43 **13**	5	White tower; 33.	
7248 *M 5955.5*	--Detached breakwater, S. head.	34° 28.3′ N 135° 20.7′ E	**Fl.G.** period 3s	49 **15**	5	White round concrete tower; 33.	
7250 *M 5955.06*	---N., head.	34° 29.3′ N 135° 21.3′ E	**Fl.R.** period 4s	20 **6**	3	Red tower; 12.	
7252 *M 5956.4*	--Kaizuka, breakwater, head.	34° 27.7′ N 135° 21.1′ E	**Fl.(2)R.** period 6s	33 **10**	4	Red tower; 22.	
7256 *M 5956.25*	--Kishiwada, W. breakwater	34° 28.3′ N 135° 21.8′ E	**Fl.R.** period 3s	27 **8**	3	Red round structure; 18.	
7260 *M 5955*	--W. breakwater, N.	34° 29.5′ N 135° 22.0′ E	**Fl.(3)R.** period 13s	52 **16**	7	Red round concrete tower; 52.	
7264 *M 5955.04*	---S. head.	34° 28.9′ N 135° 21.9′ E	**Fl.G.** period 4s	43 **13**	4	White tower; 36.	
7268 *M 5955.2*	--E. breakwater, head.	34° 29.4′ N 135° 22.2′ E	**Fl.(3)G.** period 13s	36 **11**	4	White tower; 31.	
7271 *M 5954*	--Approach.	34° 29.7′ N 135° 20.7′ E	**Mo.(U)W.** period 8s	52 **16**	10		Mo.(U)W. 8s 17m ESE. and WNW.
	--RACON		**K(– • –)**		7		(3cm).
7271.9 *M 5953.7*	-Senboku, new wharf, N. corner.	34° 32.0′ N 135° 22.7′ E	**Fl.R.** period 4s	26 **8**	4	Red tower; 12.	
7271.95 *M 5953.75*	--SW. corner.	34° 31.0′ N 135° 22.0′ E	**Fl.Y.** period 4s	26 **8**	4	Yellow mast; 12.	
7272 *M 5953.6*	--NE. corner.	34° 31.8′ N 135° 22.8′ E	**Fl.R.** period 3s	59 **18**	7	Red tower; 52.	
7280 *M 5953*	--E. breakwater, head.	34° 31.5′ N 135° 23.2′ E	**Fl.G.** period 5s	40 **12**	5	White tower; 28.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			JAPAN-SETO NAIKAI-EASTERN PART (I)				
7284 *M 5950*	-Sakai Hamadera, N. breakwater.	34° 33.5′ N 135° 24.6′ E	**Iso.G.** period 6s	59 **18**	8	White tower; 52.	
7288 *M 5951*	--S. breakwater.	34° 33.3′ N 135° 24.6′ E	**Iso.R.** period 6s	59 **18**	8	Red round concrete tower; 46.	
7289 *M 5952*	---W. breakwater.	34° 33.4′ N 135° 26.6′ E	**Fl.R.** period 3s	23 **7**	3	Red tower; 12.	
7289.1 *M 5952.1*	---E. breakwater.	34° 33.4′ N 135° 26.6′ E	**Fl.G.** period 3s	23 **7**	3	White tower; 12.	
7292 *M 5939.8*	-Detached breakwater, S. head.	34° 35.7′ N 135° 23.8′ E	**Fl.G.** period 4s	46 **14**	5	White tower; 33.	
7296 *M 5939.7*	--N. head.	34° 36.3′ N 135° 23.3′ E	**Iso.R.** period 4s	72 **22**	5	Red tower; 62.	
7304 *M 5940*	-S. harbor, N. breakwater.	34° 36.7′ N 135° 24.1′ E	**Iso.G.** period 4s	49 **15**	5	White tower; 39.	
7308 *M 5945*	-S. harbor offing, breakwater.	34° 36.6′ N 135° 25.2′ E	**Fl.(2)G.** period 6s	39 **12**	3	White tower; 31.	
7310 *M 5939.6*	-Tower.	34° 36.7′ N 135° 22.7′ E	**Mo.(U)W.** period 8s	36 **11**	5	Tower.	
7312 *M 5939*	-S. harbor Gaiko, N. breakwater.	34° 37.7′ N 135° 23.8′ E	**Fl.(2)G.** period 7s	69 **21**	7	White round concrete tower; 62.	
7316 *M 5939.4*	--Gaiko, S. breakwater.	34° 37.7′ N 135° 23.4′ E	**Fl.(2)R.** period 7s	69 **21**	7	Red round concrete tower; 62.	
7332 *M 5906*	-N. harbor, N. head.	34° 40.4′ N 135° 24.2′ E	**Fl.(3)R.** period 12s	33 **10**	5	Red tower; 20.	
7336 *M 5907*	--Middle breakwater, N. head.	34° 40.5′ N 135° 24.4′ E	**Fl.R.** period 4s	33 **10**	3	Red tower; 20.	
7344 *M 5920*	-N. harbor entrance, breakwater, head.	34° 39.1′ N 135° 24.8′ E	**Iso.G.** period 6s	43 **13**	5	White tower; 29.	
7348 *M 5932*	-Radar Tower.	34° 38.6′ N 135° 22.7′ E	**Fl.W.** period 5s	171 **52**	**19**	White tower; 164.	Visible 331°-151°. Radar station.
7384 *M 5894*	-W. breakwater, head.	34° 41.1′ N 135° 22.7′ E	**Fl.G.** period 5s	33 **10**	3	White tower; 23.	
7398 *M 5899.5*	-Nisinomiya, breakwater, N.	34° 42.2′ N 135° 20.5′ E	**Fl.G.** period 3s	39 **12**	5	White tower; 33.	
7400 *M 5899*	--SE. breakwater.	34° 40.3′ N 135° 21.6′ E	**Fl.G.** period 5s	52 **16**	8	White tower; 52.	
7402 *M 5899.3*	--Naruohama breakwater.	34° 41.2′ N 135° 21.7′ E	**Fl.(2)G.** period 6s	39 **12**	3	White tower; 31.	
7404 *M 5886*	Ozekisyuzo.	34° 43.2′ N 135° 20.8′ E	**F.G.**	25 **8**	4	Black square tower; 22.	
7408 *M 5854*	**-Naka.**	34° 40.8′ N 135° 11.3′ E	**Al.Fl.R.G.** period 10s	177 **54**	R. **17** G. **18**	White tower; 16.	Private light.
7412 *M 5864.63*	-Beacon E.	34° 38.1′ N 135° 15.5′ E	**Mo.(N)Y.** period 6s		6	SPECIAL Y, beacon, “X” topmark.	**Radar reflector.**
7414 *M 5865*	-Wave observation tower.	34° 38.8′ N 135° 16.6′ E	**Mo.(U)W.** period 10s	36 **11**	8		**Radar reflector.**
7415 *M 5865.51*	-Detatched breakwater, NW. head.	34° 38.9′ N 135° 15.3′ E	**Fl.Y.** period 4s	14 **4**	4		
7415.5 *M 5865.52*	--SE. head.	34° 38.9′ N 135° 15.4′ E	**Fl.Y.** period 4s	14 **4**	4		
7416 *M 5866*	-Breakwater No 6, E. head.	34° 40.2′ N 135° 14.7′ E	**Fl.(2)G.** period 6s	59 **18**	7	White round concrete tower; 62.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			JAPAN-SETO NAIKAI-EASTERN PART (I)				
7420 *M 5866.3*	--S. head.	34° 39.8′ N 135° 15.0′ E	**Fl.Y.** period 3s	23 **7**	8	SPECIAL Y, beacon, “X” topmark.	**Radar reflector.**
7424 *M 5867*	-Breakwater No 7, SW. head.	34° 40.1′ N 135° 15.2′ E	**Fl.(2)R.** period 6s	66 **20**	7	Red tower; 62.	
7428 *M 5867.2*	--NE. head.	34° 40.6′ N 135° 17.8′ E	**Fl.G.** period 3s	66 **20**	7	White tower; 65.	
7430 *M 5899.2*	-Nisinomiya, breakwater, W. head.	34° 40.7′ N 135° 18.8′ E	**Fl.R.** period 3s	52 **16**	7	Red tower; 56.	
7436 *M 5870*	-Breakwater No 5, E. head.	34° 41.2′ N 135° 14.4′ E	**Fl.G.** period 5s	52 **16**	3	White tower; 52.	
7440 *M 5871*	-Range, front.	34° 42.0′ N 135° 14.6′ E	**F.G.**	72 **22**	6	White beacon, red triangular daymark point up; 69.	
7440.5 *M 5871.1*	--Rear, 150 meters 358° from front.	34° 42.1′ N 135° 14.6′ E	**F.G.**	141 **43**	6		
7448 *M 5872*	-Breakwater No 4, middle.	34° 41.4′ N 135° 13.5′ E	**Fl.R.** period 3s	13 **4**	7	Red tower; 13.	
7452 *M 5868*	-Breakwater No 3, E. head.	34° 40.9′ N 135° 13.4′ E	**Fl.(2)G.** period 7s	56 **17**	7	White round concrete tower; 62.	
7456 *M 5862*	-Breakwater No 2, S. head.	34° 39.4′ N 135° 12.3′ E	**Oc.R.** period 8s lt. 6s, ec. 2s	59 **18**	4	Red tower; 62.	
7460 *M 5861*	-S. breakwater No 1, S. head.	34° 39.1′ N 135° 12.3′ E	**Iso.G.** period 4s	59 **18**	5	White tower; 59.	
7464 *M 5860*	-Breakwater No 1, E. head.	34° 39.3′ N 135° 12.1′ E	**Oc.G.** period 8s lt. 6s, ec. 2s	62 **19**	4	White tower; 62. Floodlit.	
7470 *M 5860.3*	-Aeronautical runway, head.	34° 37.9′ N 135° 12.0′ E	**Mo.(U)W.** period 8s	39 **12**	5		Visible 327°-228°.
7471 *M 5860.2*	-Beacon W.	34° 37.8′ N 135° 11.3′ E	**Mo.(N)Y.** period 6s		6	SPECIAL Y, beacon, “X” topmark.	**Radar reflector.**
7472 *M 5857*	-Wada, breakwater, head.	34° 39.2′ N 135° 11.3′ E	**F.Fl.G.** period 3s	39 **12**	F. 4 Fl. 7	White tower; 36.	
7472.5 *M 5857.5*	-No 1 breakwater, W. head.	34° 39.2′ N 135° 11.4′ E	**F.Fl.R.** period 3s	43 **13**	F. 4 Fl. 7	Red tower; 33.	
7476 *M 5852*	**-Kobe.**	34° 38.9′ N 135° 10.1′ E	**Fl.W.** period 8s	85 **26**	**15**	White round concrete tower; 95.	Visible 263°-083°.
7482 *M 5848*	-Minami Komaei, breakwater.	34° 38.8′ N 135° 09.4′ E	**Fl.G.** period 4s	46 **14**	5	White tower; 31.	
7488 *M 5844*	-Nagata, breakwater.	34° 38.7′ N 135° 09.0′ E	**Iso.G.** period 4s	39 **12**	4	White tower; 33.	
7490 *M 5843.4*	-E. oil terminal pier.	34° 38.6′ N 135° 08.5′ E	**Mo.(U)W.** period 8s	26 **8**	5		
7491 *M 5843.2*	-W. oil terminal pier.	34° 38.5′ N 135° 08.5′ E	**Mo.(U)W.** period 8s	39 **12**	4		
7492 *M 5843*	-Suma, offing, breakwater, E. head.	34° 38.4′ N 135° 08.2′ E	**Fl.G.** period 3s	33 **10**	4	White round concrete tower; 28.	
7494 *M 5843.1*	-Wakamiya, outer breakwater, head.	34° 38.4′ N 135° 07.9′ E	**Fl.(2)G.** period 6s	39 **12**	5	Green tower; 22.	
7496 *M 5842.4*	-Outer Suma Tower.	34° 38.1′ N 135° 06.3′ E	**Mo.(U)W.** period 15s	62 **19**	8		
7500 *M 5840*	Hira Iso.	34° 37.3′ N 135° 03.9′ E	**Q.(6)+L.Fl.W.** period 15s	46 **14**	7	S. CARDINAL YB, beacon, topmark; 39.	
7504 *M 5838.6*	Tarumi Ko, S. breakwater, E. side.	34° 37.4′ N 135° 03.4′ E	**Fl.G.** period 3s	43 **13**	5	White tower; 33.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
7508 *M 5838.7*	-S. breakwater, W. side.	34° 37.5′ N 135° 02.7′ E	**Fl.(2)R.** period 6s	26 **8**	3	Red tower; 16.	
	AWAJI SHIMA:						
7516 *M 5814.6*	-Oisino Hana.	34° 16.0′ N 134° 57.0′ E	**Fl.W.** period 5s	387 **118**	12	White round concrete tower; 33.	F. obstruction light illuminates reef 300 meters SE.
7520 *M 5815*	Taka Saki.	34° 16.6′ N 134° 57.4′ E	**Oc.W.** period 4s lt. 3s, ec. 1s	92 **28**	8	White tower; 36.	
7524 *M 5815.5*	Naruyama Shima.	34° 17.3′ N 134° 57.7′ E	**Q.(3)W.** period 10s	62 **19**	7	E. CARDINAL BYB, beacon, topmark; 56.	
7528 *M 5816*	-Yura Ko, breakwater, head.	34° 17.9′ N 134° 56.7′ E	**F.Fl.G.** period 6s	37 **11**	F. 2 Fl. 5	White round concrete tower; 28.	
7536 *M 5818.4*	-Sumoto Ko, outer harbor, S. breakwater.	34° 20.8′ N 134° 54.2′ E	**F.Fl.(2)G.** period 10s	42 **13**	F. 2 Fl. 5	White round concrete tower; 33.	
7548 *M 5819.5*	--N. breakwater.	34° 21.0′ N 134° 54.1′ E	**Fl.R.** period 3s	46 **14**	5	Red round concrete tower; 33.	
7592 *M 5821*	--Takeno Kuchi, N. breakwater, head.	34° 21.2′ N 134° 53.8′ E	**Fl.(2)R.** period 6s	36 **11**	5	Red tower; 22.	
7596 *M 5822*	-Tuna Ko, Siota Kita, N. breakwater, head.	34° 24.8′ N 134° 53.9′ E	**Fl.R.** period 3s	21 **6**	3	Red round concrete tower; 16.	
7600 *M 5822.12*	--Sioto, S. breakwater, head.	34° 24.8′ N 134° 54.0′ E	**Iso.G.** period 6s	39 **12**	4	White tower; 28.	
7604 *M 5822.16*	--Shizuki, S. breakwater, head.	34° 25.9′ N 134° 54.9′ E	**Fl.(2)G.** period 7s	33 **10**	5	White tower; 30.	
7610 *M 5822.22*	Tsuna Ko, breakwater.	34° 26.0′ N 134° 54.9′ E	**Fl.(2)R.** period 6s	36 **11**	4	Red structure; 28.	
7612 *M 5822.3*	-Ikuho Gyoko Higasi, E. breakwater.	34° 26.7′ N 134° 55.6′ E	**Fl.G.** period 3s	36 **11**	4	White tower; 28.	
7616 *M 5822.4*	-Sano Minami, S. breakwater.	34° 27.5′ N 134° 56.4′ E	**Oc.G.** period 4s lt. 3s, ec. 1s	36 **11**	4	White tower; 29.	
7618 *M 5822.5*	-Kamaguti Ko, breakwater.	34° 29.5′ N 134° 57.9′ E	**Fl.G.** period 3s	32 **10**	5	White tower; 19.	
7620 *M 5822.6*	-Kariya Ko, S. breakwater.	34° 30.7′ N 134° 59.3′ E	**Iso.G.** period 6s	39 **12**	5	White round concrete tower; 28.	
7624 *M 5822.8*	--E. breakwater.	34° 31.0′ N 134° 59.5′ E	**Fl.G.** period 3s	43 **13**	5	White round concrete tower; 28.	
7626 *M 5823*	-Kariya Ko, breakwater, N. head.	34° 31.5′ N 134° 59.7′ E	**Fl.(2)G.** period 6s	30 **9**	5	White tower; 18.	
7628 *M 5828*	-Ura Ko, S. breakwater.	34° 32.6′ N 134° 59.8′ E	**Iso.G.** period 4s	36 **11**	5	White tower; 28.	
7632 *M 5829*	--N. breakwater, N. head.	34° 32.6′ N 134° 59.7′ E	**F.R.**	24 **7**	7	White wooden tower; 19.	
7640 *M 5834*	-Iwaya Ko, inner breakwater, E. head.	34° 35.5′ N 135° 01.1′ E	**Fl.R.** period 4s	42 **13**	3	Red tower; 31.	
7644 *M 5834.2*	--W. breakwater.	34° 35.5′ N 135° 01.1′ E	**Fl.G.** period 3s	39 **12**	5	White concrete column; 32.	
7648 *M 5796*	**-E. Saki.**	34° 36.4′ N 134° 59.6′ E	**Al.W.R.** period 10s	161 **49**	W. **18** R. **16**	White tower; 26.	Visible 061°-079° and 098°-266°. Reserve light Q.W. 16M.
			F.R.				Visible 079°-098°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			JAPAN-SETO NAIKAI-EASTERN PART (I)				
7650 *M 5836*	Akashi Kaikyo Bridge, 2P, E.	34° 37.5′ N 135° 01.6′ E	**F.Y.**	39 **12**	7		Visible 165°-084°.
7650.5 *M 5836*	-W.	34° 37.5′ N 135° 01.6′ E	**F.Y.**	39 **12**	7		Visible 345°-264°.
7651 *M 5836*	-3P, E.	34° 36.6′ N 135° 00.9′ E	**F.Y.**	39 **12**	7		Visible 168°-081°.
7651.5 *M 5836*	-W.	34° 36.6′ N 135° 00.9′ E	**F.Y.**	39 **12**	7		Visible 348°-261°.
7651.6 *M 5836*	-Center span of bridge.	34° 37.0′ N 135° 01.3′ E	**F.W.**	272 **83**	8		Visible 093°-159° and 273°-339°. F.R. 5M, F.G. 8M mark channel limits.
	HIGASHI-HARIMA KO:						
7652 *M 5783*	-Agashi Gaiko, outer harbor, S. breakwater.	34° 38.5′ N 134° 59.5′ E	**Fl.R.** period 4s	43 **13**	5	Red tower; 29.	
7656 *M 5785*	--Outer Harbor, W. breakwater.	34° 38.5′ N 134° 59.4′ E	**Fl.G.** period 4s	36 **11**	7	White tower; 29.	
7660 *M 5784*	-Akasi Ko.	34° 38.5′ N 134° 59.3′ E	**Iso.R.** period 6s	36 **11**	5	Red tower; 29.	
7664 *M 5782.6*	-W. outer harbor, W. breakwater.	34° 38.4′ N 134° 59.0′ E	**Iso.G.** period 6s	39 **12**	4	White tower; 29.	
7666 *M 5782.8*	-W. breakwater.	34° 38.4′ N 134° 59.0′ E	**Fl.(2)G.** period 6s	43 **13**	5	White tower; 32.	
7668 *M 5782*	-W. breakwater.	34° 38.6′ N 134° 58.0′ E	**F.Fl.G.** period 3s	39 **12**	F. 2 Fl. 5	White round concrete tower; 28.	
7670	*Akashi-Kaikyo, W. buoy.*	34° 36.3′ N 134° 56.9′ E	**Mo.(A)W.** period 8s			SAFE WATER RW, pillar, topmark.	
	RACON		**OE(– – – •)**		5		(3cm).
7672 *M 5781*	Eigishima Ko, W. breakwater.	34° 40.4′ N 134° 54.6′ E	**F.Fl.G.** period 7s	43 **13**	F. 2 Fl. 5	White tower; 32.	
	HIGASI-HARIMA KO:						
7676 *M 5780*	-Futami Ko.	34° 41.4′ N 134° 53.2′ E	**Fl.G.** period 3s	39 **12**	5	White tower; 29.	
7680 *M 5774.4*	-Beppu, E. breakwater, head.	34° 41.8′ N 134° 50.2′ E	**Fl.R.** period 3s	56 **17**	7	Red round concrete tower; 52.	
7684 *M 5774*	--W. breakwater, head.	34° 41.9′ N 134° 49.9′ E	**Fl.G.** period 3s	56 **17**	7	White tower; 52.	
7692 *M 5775*	--Directional light 022°18′.	34° 43.2′ N 134° 50.7′ E	**Dir.W.R.G.**	56 **17**	W. 8 R. 6 G. 6	White tower; 49.	F.G. 018°48′-021°18′, F.W.-023°18′, F.R.-025°48′.
7700 *M 5773*	-Behu Nisiko, W. breakwater, head.	34° 42.8′ N 134° 48.4′ E	**Fl.(2)G.** period 7s	36 **11**	5	White tower; 28.	
7704 *M 5772.5*	Takasago Ko, E. breakwater.	34° 43.8′ N 134° 47.9′ E	**Fl.(2)R.** period 6s	43 **13**	5	Red round concrete structure; 33.	
7708 *M 5772*	-W. breakwater.	34° 43.8′ N 134° 47.8′ E	**Fl.(2)G.** period 6s	43 **13**	5	White tower; 36.	
7712 *M 5771.6*	--Nisiko, W. breakwater, head.	34° 44.4′ N 134° 47.1′ E	**Fl.G.** period 4s	39 **12**	5	White tower; 33.	
7716 *M 5770*	-Ibo Ko, entrance, W. side.	34° 44.9′ N 134° 45.8′ E	**Iso.G.** period 6s	43 **13**	5	White tower; 28.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
7720 *M 5771*	--E. breakwater.	34° 45.0′ N 134° 46.1′ E	**Fl.(3)R.** period 13s	33 **10**	5	Red tower; 28.	
7724 *M 5769*	Yagi Ko, W. breakwater.	34° 46.3′ N 134° 43.3′ E	**Iso.G.** period 6s	36 **11**	4	White tower; 28.	
7726 *M 5767*	Mega Gyoko, breakwater, head.	34° 46.4′ N 134° 42.2′ E	**Iso.R.** period 4s	43 **13**	4	Red tower; 32.	
	HIMEJI KO:						
7728 *M 5766.3*	-Mega Ko, E. breakwater.	34° 45.5′ N 134° 41.2′ E	**Fl.R.** period 4s	65 **20**	7	Red round concrete tower; 62.	
7732 *M 5766*	-W. breakwater, head.	34° 46.0′ N 134° 40.9′ E	**Fl.G.** period 3s	56 **17**	3	White round concrete tower; 52.	
7736 *M 5766.5*	-W. breakwater, SE. head.	34° 45.4′ N 134° 40.9′ E	**Fl.G.** period 3s	65 **20**	4	White tower; 65.	
7740 *M 5764.6*	-Sikama Ko, E. breakwater.	34° 45.8′ N 134° 39.2′ E	**Fl.(2)R.** period 6s	49 **15**	7	Red tower; 46.	
	SIKAMA KO:						
7744 *M 5764.8*	--W. breakwater, SE. head.	34° 45.7′ N 134° 39.0′ E	**Fl.(2)G.** period 6s	49 **15**	7	White tower; 46.	
7748 *M 5764*	--E. breakwater No 2.	34° 46.4′ N 134° 39.5′ E	**Fl.R.** period 3s	43 **13**	3	Red round concrete tower; 33.	
7752 *M 5762*	Hirohata, E. breakwater.	34° 45.8′ N 134° 37.7′ E	**Fl.R.** period 3s	56 **17**	7	Red round metal tower; 56.	
7756 *M 5763.5*	-Range No 2, front.	34° 47.1′ N 134° 37.8′ E	**F.R.**	98 **30**	5	White metal framework tower, white triangular daymark point up; 92.	
7760 *M 5763.6*	--Rear, 510 meters 000° from front.	34° 47.4′ N 134° 37.8′ E	**F.R.**	154 **47**	6	White metal framework tower, white triangular daymark point up; 148.	
7764 *M 5761*	Abosi Ko.	34° 46.2′ N 134° 36.4′ E	**Fl.G.** period 4s	36 **11**	7	White tower; 28.	
7768 *M 5760*	-W.	34° 45.7′ N 134° 35.2′ E	**Fl.(2)G.** period 5s	33 **10**	5	White tower; 24.	
7772 *M 5759.7*	Himezi Ko, E. breakwater.	34° 45.4′ N 134° 34.2′ E	**Iso.R.** period 6s	39 **12**	5	Red tower; 31.	
7776 *M 5759.6*	-Naka, W. breakwater.	34° 45.4′ N 134° 34.0′ E	**Iso.G.** period 6s	42 **13**	5	White tower; 36.	
7780 *M 5756.7*	Iwami Ko.	34° 46.8′ N 134° 31.7′ E	**F.Fl.R.** period 3s	39 **12**	F. 2 Fl. 5	Red round concrete tower; 31.	
7784 *M 5756.8*	Murotsu Ko, S.	34° 46.1′ N 134° 30.0′ E	**Fl.R.** period 3s	36 **11**	5	Red round concrete tower; 28.	
7788 *M 5756.4*	Kazura Sima.	34° 44.9′ N 134° 27.8′ E	**Fl.(3)W.** period 13s	173 **53**	10	White tower; 43.	
7790 *M 5763.3*	Sakosi Ko.	34° 46.0′ N 134° 27.2′ E	**Fl.G.** period 3s	24 **7**	3	White tower; 18.	
7792 *M 5756.6*	Aioi Ko Range, front.	34° 47.5′ N 134° 27.7′ E	**F.R.**	308 **94**	4	White mast, red bands, white triangular daymark point up; 49.	
7796 *M 5756.61*	-Rear, 120 meters 350°30′ from front.	34° 47.6′ N 134° 27.7′ E	**F.R.**	348 **106**	4	White mast, red bands, white triangular daymark point up; 49.	
7800 *M 5755.6*	**Ako Misaki.**	34° 43.8′ N 134° 24.5′ E	**Fl.W.** period 10s	276 **84**	**20**	White octagonal concrete tower; 52.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			JAPAN-SETO NAIKAI-EASTERN PART (I)				
7804 *M 5756*	Ako.	34° 43.4′ N 134° 24.4′ E	**Q.(6)+L.Fl.W.** period 15s	28 **9**	5	S. CARDINAL YB, beacon, topmark; 23.	
7808 *M 5756.2*	-Range, front.	34° 44.8′ N 134° 22.0′ E	**F.G.**	67 **20**	9	White mast, red bands, white triangular daymark point up; 59.	
7812 *M 5756.21*	--Rear, about 575 meters 360° from front.	34° 45.0′ N 134° 22.0′ E	**F.G.**	89 **27**	9	Red beacon, white bands, white triangular daymark point down; 7.	
7816 *M 5755.3*	Unoisi Hana.	34° 42.2′ N 134° 20.5′ E	**Fl.(3)W.** period 14s	79 **24**	7	White round concrete tower; 30.	
7820 *M 5755*	Hinase Ko.	34° 43.5′ N 134° 16.3′ E	**Fl.R.** period 3s	39 **12**	3	Red tower; 28.	
7822 *M 5754.7*	Otabu Ko.	34° 41.2′ N 134° 17.9′ E	**Fl.G.** period 3s	24 **7**	3	White tower; 18.	
7824 *M 5754.5*	Kasirazima Ko.	34° 41.9′ N 134° 16.9′ E	**Iso.R.** period 6s	23 **7**	5	Red tower; 18.	
7826 *M 5754.85*	Otabu Sima.	34° 40.8′ N 134° 17.7′ E	**Iso.W.** period 6s	102 **31**	14	White tower; 36.	
7828 *M 5754*	Takagono Syo.	34° 42.8′ N 134° 13.2′ E	**Fl.(2)W.** period 5s	36 **11**	3	ISOLATED DANGER BRB, tower, topmark; 30.	
7840 *M 5752.4*	Kami-Ikada.	34° 38.2′ N 134° 12.2′ E	**Mo.(A)G.** period 8s	32 **10**	3	PORT (B) G, tower, topmark; 26.	
7844 *M 5752.2*	Ki Sima.	34° 35.8′ N 134° 11.9′ E	**Fl.W.** period 4s	56 **17**	10	White tower; 39.	
7848 *M 5751.8*	Usimado Ko.	34° 36.8′ N 134° 10.5′ E	**F.Fl.W.** period 3s	43 **13**	F. 4 Fl. 7	White round concrete tower; 36.	
7852 *M 5752*	-Breakwater, E. head.	34° 36.8′ N 134° 09.8′ E	**Fl.G.** period 3s	39 **12**	5	White round concrete tower; 32.	
	HARIMA NADA, NORTH PASSAGE:						
7856 *M 5751.6*	-Yomogi Saki.	34° 35.9′ N 134° 08.2′ E	**Fl.W.** period 5s	32 **10**	10	White structure; 27.	
7860 *M 5768*	Kami Shima.	34° 41.2′ N 134° 42.8′ E	**Fl.(2)W.** period 8s	197 **60**	12	White tower; 46.	
7864 *M 5758.4*	Kurakake Sima.	34° 41.2′ N 134° 38.2′ E	**Fl.(4)W.** period 16s	220 **67**	10	White round concrete tower, red bands; 52.	
7868 *M 5758*	Tanga Sima.	34° 39.5′ N 134° 35.0′ E	**Fl.W.** period 6s	249 **76**	12	White tower; 39.	
7876 *M 5757.9*	-N. breakwater, E. head.	34° 41.0′ N 134° 32.5′ E	**Fl.R.** period 3s	28 **8**	4	Red tower; 18.	
7880 *M 5757.6*	Osaki Hana.	34° 41.1′ N 134° 32.2′ E	**Iso.W.** period 6s	230 **70**	8	White tower; 31.	Fl.R. marks head of breakwater close ESE.
7880.5 *M 5757.41*	-Breakwater, head.	34° 39.9′ N 134° 31.4′ E	**Fl.(2)G.** period 6s	30 **9**	4	White tower; 18.	
7882 *M 5757.42*	Boze Shima, N. head.	34° 39.5′ N 134° 31.1′ E	**Fl.G.** period 3s	30 **9**	5	White tower; 18.	
7884 *M 5757.4*	Boze Ko, breakwater, head.	34° 39.2′ N 134° 30.6′ E	**F.Fl.G.** period 4s	43 **13**	F. 2 Fl. 5	White round concrete tower; 31.	
7885 *M 5757.45*	Boze Ko, W. breakwater.	34° 39.2′ N 134° 30.5′ E	**Fl.R.** period 3s	24 **7**	4	Red tower; 19.	
7886 *M 5757.5*	Boze Sima.	34° 38.9′ N 134° 31.2′ E	**Fl.(2)G.** period 7s	33 **10**	4	White tower; 18.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			JAPAN-SETO NAIKAI-EASTERN PART (I)				
7888 *M 5757.3*	Inge Sima.	34° 39.1′ N 134° 26.1′ E	**Fl.(2)W.** period 10s	240 **73**	7	White tower; 39.	
7892 *M 5757*	Matu Sima.	34° 35.6′ N 134° 28.6′ E	**Fl.W.** period 3s	167 **51**	7	White tower; 29.	
7896 *M 5548*	**Okado Hana.**	34° 26.0′ N 134° 20.3′ E	**Fl.W.** period 3s	209 **64**	**21**	White tower; 43.	Visible 209°-116°. Partially obscured by Funoko Shima.
7900 *M 5547.8*	Sanuki Tatibana Ko.	34° 29.4′ N 134° 20.8′ E	**Fl.R.** period 3s	33 **10**	5	Red tower; 19.	
7904 *M 5547.55*	Oiso.	34° 33.4′ N 134° 23.2′ E	**Fl.(2)W.** period 5s	49 **15**	5	ISOLATED DANGER BRB, tower, topmark; 39.	
7908 *M 5547.6*	Fukuda Ko, N. breakwater.	34° 32.6′ N 134° 20.9′ E	**F.Fl.R.** period 5s	36 **11**	F. 2 Fl. 5	Red tower; 28.	
7912 *M 5547.5*	Obe Ko, breakwater.	34° 32.9′ N 134° 17.0′ E	**Fl.G.** period 3s	43 **13**	7	White round concrete tower; 32.	
7916 *M 5547*	Sanuki Chiburi Shima.	34° 31.8′ N 134° 09.7′ E	**Fl.(2)W.** period 7s	72 **22**	7	White tower; 27.	
7920 *M 5547.4*	Shikai Ko, breakwater No 12.	34° 31.0′ N 134° 09.8′ E	**Oc.G.** period 4s	36 **11**	5	White round concrete tower; 28.	
7922 *M 5549.3*	Ojimae Ko.	34° 28.8′ N 134° 11.5′ E	**Fl.G.** period 5s	23 **7**	3	White tower; 16.	
7924 *M 5549.2*	Ikeda Ko, breakwater, head.	34° 28.7′ N 134° 13.6′ E	**Fl.G.** period 3s	36 **11**	5	White tower; 27.	
7928 *M 5549*	Zizo Saki.	34° 24.9′ N 134° 14.1′ E	**Fl.(2)W.** period 7s	220 **67**	12	White tower; 42.	Visible 259°-113°.
	RACON		**Y(– • – –)**		9		(3cm). Azimuth coverage 259°-114°.
7936 *M 5797*	-Tosima Ko, N. breakwater.	34° 33.1′ N 134° 56.0′ E	**Iso.R.** period 4s	43 **13**	5	Red tower; 32.	
7940 *M 5798.4*	-Asano Ko, N. breakwater.	34° 32.2′ N 134° 54.6′ E	**Iso.R.** period 6s	39 **12**	6	Red round concrete tower; 28.	
7944 *M 5798.6*	-Ikuha Ko, W. breakwater.	34° 31.9′ N 134° 53.8′ E	**Fl.R.** period 5s	39 **12**	3	Red round concrete tower; 28.	
7946 *M 5798.8*	Ikuha Ko.	34° 31.9′ N 134° 53.6′ E	**Fl.R.** period 3s	30 **9**	5	Red tower; 18.	
7948 *M 5799*	-Awaji Murotsu Ko, W. breakwater.	34° 31.5′ N 134° 52.7′ E	**F.Fl.R.** period 7s	43 **13**	F. 2 Fl. 5	Red tower; 29.	
7952 *M 5800*	-Gunge Ko, W. breakwater, head.	34° 28.6′ N 134° 50.6′ E	**F.Fl.R.** period 3s	39 **12**	F. 2 Fl. 5	Red round concrete tower; 28.	
7956 *M 5799.5*	-Ozaki Ko.	34° 29.9′ N 134° 51.5′ E	**Iso.R.** period 4s	39 **12**	4	Red tower; 29.	
7960 *M 5802*	-Ei Ko, W. breakwater, head.	34° 28.2′ N 134° 49.8′ E	**Iso.R.** period 6s	33 **10**	5	Red round concrete tower; 22.	
7962	-*Harima Nada Light Buoy 4.*	34° 30.1′ N 134° 38.7′ E	**Mo.(A)W.** period 8s			SAFE WATER RW, pillar, topmark.	
	-RACON		**K(– • –)**		5		(3cm).
7964 *M 5803*	-Awazi Yamada Ko.	34° 27.0′ N 134° 48.0′ E	**Oc.R.** period 4s	28 **9**	4	Red tower; 19.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			JAPAN-SETO NAIKAI-EASTERN PART (II)				
7968 *M 5804*	-Tusi Ko, breakwater, head.	34° 24.9′ N 134° 46.8′ E	**Fl.R.** period 4s	43 **13**	5	Red round concrete tower; 32.	
7972 *M 5806*	-Torikai Ko, breakwater.	34° 22.3′ N 134° 44.8′ E	**Iso.G.** period 4s	39 **12**	4	White tower; 31.	
7976 *M 5809.2*	-Minato Ko, E. breakwater, head.	34° 20.0′ N 134° 43.5′ E	**Fl.(2)G.** period 7s	36 **11**	5	White tower; 31.	
7980 *M 5809*	--W. breakwater.	34° 20.0′ N 134° 43.4′ E	**Fl.(2)R.** period 7s	39 **12**	5	Red tower; 28.	
7984 *M 5811*	-Muruyama Ko, W. breakwater, head.	34° 17.4′ N 134° 39.6′ E	**Fl.G.** period 4s	36 **11**	4	White round concrete tower; 23.	
7986	Ibi Ko.	34° 15.3′ N 134° 40.4′ E	**Fl.R.** period 3s	24 **7**	3	Red tower; 16.	
7988 *M 5551.3*	Kameura Ko.	34° 14.0′ N 134° 37.4′ E	**Fl.R.** period 5s	39 **12**	5	Red tower; 32.	
7988.5 *M 5551.6*	-W. breakwater, head.	34° 14.1′ N 134° 38.1′ E	**Fl.G.** period 3s	28 **8**	3	White tower; 16.	
7994 *M 5551*	Kitadomari.	34° 14.4′ N 134° 35.3′ E	**Fl.R.** period 4s	36 **11**	5	Red tower; 28.	
7996 *M 5550.9*	Awata Ko, breakwater.	34° 13.5′ N 134° 32.8′ E	**Fl.R.** period 3s	46 **14**	3	Red round concrete structure; 36.	
8000 *M 5550.85*	Awa Oura.	34° 13.6′ N 134° 31.5′ E	**Fl.(2)R.** period 6s	33 **10**	5	Red tower; 21.	
8004 *M 5550.8*	Orino Ko, breakwater.	34° 12.7′ N 134° 28.9′ E	**Fl.G.** period 3s	43 **13**	5	White tower; 21.	
8008 *M 5550.5*	Hiketa Hana.	34° 14.0′ N 134° 24.7′ E	**Iso.W.** period 6s	246 **75**	8	White round concrete tower; 23.	
8012 *M 5550.7*	Hiketa Ko.	34° 13.7′ N 134° 24.5′ E	**Fl.G.** period 5s	33 **10**	3	White tower; 28.	
8016 *M 5550.6*	-Breakwater.	34° 13.5′ N 134° 24.7′ E	**Iso.R.** period 6s	39 **12**	4	Red tower; 27.	
8024 *M 5550.2*	Sanbonmatu Ko, W. breakwater.	34° 15.4′ N 134° 20.5′ E	**Fl.(2)R.** period 6s	43 **13**	7	Red tower; 30.	
8028 *M 5550.3*	-Detached breakwater, NW. head.	34° 15.5′ N 134° 20.7′ E	**Fl.G.** period 3s	36 **11**	3	White round concrete tower, square base; 28.	
8030 *M 5549.7*	Wakimoto Ko.	34° 17.0′ N 134° 16.7′ E	**Fl.R.** period 3s	32 **10**	4	Red tower; 19.	
8031 *M 5550*	Tuda Ko, breakwater, head.	34° 17.8′ N 134° 15.1′ E	**Iso.R.** period 6s	36 **11**	5	Red tower; 28.	
8031.5 *M 5549.95*	Tuda Wan, breakwater.	34° 19.1′ N 134° 15.7′ E	**Fl.(2)R.** period 6s	26 **8**	3	Red tower; 16.	
8032 *M 5549.6*	**Umaga Hana.**	34° 21.0′ N 134° 15.0′ E	**Fl.W.** period 10s	187 **57**	**20**	White square concrete tower; 36. Visible 073°-309°.	
8033 *M 5549.5*	Oda Wan, breakwater, head.	34° 20.3′ N 134° 14.1′ E	**Fl.G.** period 3s	23 **7**	3	White tower; 16.	
8034 *M 5549.55*	Okushi Saki.	34° 22.2′ N 134° 12.7′ E	**Mo.(A)R.** period 8s	25 **8**	4	STARBOARD (B) R, beacon, topmark; 18.	
8036 *M 5751.4*	Inusima Siroisi.	34° 33.8′ N 134° 06.8′ E	**Q.(3)W.** period 10s	33 **10**	5	E. CARDINAL BYB, beacon, topmark; 23.	
8038 *M 5751.5*	Asahi Ko.	34° 35.1′ N 134° 06.1′ E	**Fl.R.** period 5s	26 **8**	3	Red tower; 18.	
8040 *M 5748.6*	Kome Saki.	34° 34.6′ N 134° 02.8′ E	**Iso.W.** period 6s	82 **25**	8	White round concrete tower; 33.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			JAPAN-SETO NAIKAI-EASTERN PART (II)				
8044 *M 5750*	Bisyago Iwa.	34° 36.5′ N 134° 02.4′ E	**Mo.(A)G.** period 8s	33 **10**	3	PORT (B) G, tower, topmark; 26.	
8048 *M 5749*	Saidaizi Ko.	34° 36.2′ N 134° 01.8′ E	**Fl.(2)R.** period 6s	42 **13**	5	Red tower; 31.	
8052 *M 5751*	Tubusi Syo.	34° 36.1′ N 134° 00.8′ E	**Mo.(A)R.** period 8s	36 **11**	3	STARBOARD (B) R, tower, topmark; 33.	
8056 *M 5751.2*	Okayama Ko, W. breakwater.	34° 35.6′ N 133° 57.4′ E	**Fl.(2)G.** period 6s	33 **10**	5	White round concrete tower; 28.	
8058 *M 5748.5*	-Breakwater, W. head.	34° 29.5′ N 134° 05.8′ E	**Fl.G.** period 3s	28 **9**	3	White tower; 18.	
8060 *M 5748.3*	Ieura Ko.	34° 29.5′ N 134° 03.6′ E	**Fl.(2)G.** period 6s	39 **12**	6	White tower; 28.	
8064 *M 5747.6*	Kurakake Hana.	34° 28.8′ N 134° 01.2′ E	**Iso.W.** period 6s	187 **57**	8	White round concrete tower; 36.	
8070 *M 5748*	Ohirushima.	34° 30.7′ N 134° 00.9′ E	**Fl.W.** period 5s	121 **37**	7	White metal tower; 49.	
8072 *M 5741.7*	Desaki Uchi.	34° 30.9′ N 133° 58.0′ E	**Mo.(D)Y.** period 8s	17 **5**	5	SPECIAL Y, beacon, “X” topmark; 18.	
8074 *M 5747*	Kyonojoro Shima.	34° 29.3′ N 133° 59.0′ E	**Fl.W.** period 4s	39 **12**	5	White round concrete tower; 18.	
8078 *M 5743*	Tera Shima.	34° 28.8′ N 133° 58.3′ E	**Fl.W.** period 3s	33 **10**	5	White tower; 29.	
8082 *M 5740*	Uno Ko.	34° 28.4′ N 133° 56.9′ E	**Fl.W.** period 3s	36 **11**	5	White tower; 30.	Visible 311°-219°.
8086 *M 5739*	Kazura Shima.	34° 28.1′ N 133° 57.5′ E	**Fl.(2)W.** period 6s	76 **23**	5	White tower; 36.	
8088 *M 5747.3*	Honmura.	34° 27.6′ N 134° 00.0′ E	**Fl.G.** period 3s	26 **8**	5	White tower; 18.	
8088.5 *M 5747.4*	Naoshima-ko.	34° 27.3′ N 134° 00.1′ E	**Iso.G.** period 4s	26 **8**	4	White tower; 18.	
8090 *M 5744*	Miyanoura Ko.	34° 27.4′ N 133° 58.2′ E	**Fl.(2)R.** period 6s	39 **12**	5	Red tower; 28.	
8094 *M 5746*	Manaitaishi.	34° 26.8′ N 133° 58.1′ E	**Mo.(A)G.** period 8s	43 **13**	5	PORT (B) G, tower, topmark; 36.	
8098 *M 5738*	Inumodori Hana.	34° 27.3′ N 133° 56.6′ E	**Mo.(D)G.** period 13s	43 **13**	7	PORT (B) G, tower, topmark; 28.	
8102 *M 5737.7*	Hibi Ko, E. breakwater.	34° 27.2′ N 133° 55.8′ E	**Fl.R.** period 3s	43 **13**	3	Red round concrete tower; 31.	
8106 *M 5737.8*	W. breakwater No 3.	34° 27.1′ N 133° 55.8′ E	**Fl.G.** period 3s	39 **12**	5	White round concrete tower; 32.	
8110 *M 5737.5*	Kotoura Ko, E. breakwater.	34° 28.2′ N 133° 50.1′ E	**Iso.R.** period 6s	36 **11**	5	Red tower; 28.	
8114 *M 5737*	Kusumi Hana.	34° 25.8′ N 133° 49.2′ E	**Mo.(A)G.** period 8s	39 **12**	5	PORT (B) G, tower, topmark; 33.	
8118 *M 5735*	Shimotsui Ko.	34° 26.3′ N 133° 47.5′ E	**F.Fl.(2)R.** period 8s	32 **10**	F. 2 Fl. 5	Red round concrete tower; 28.	
8119 *M 5549.9*	Shirakata Ko, breakwater.	34° 20.7′ N 134° 11.6′ E	**Iso.G.** period 6s	27 **8**	5	White tower; 19.	
8120 *M 5546.8*	Sido Ko, breakwater, E.	34° 19.5′ N 134° 10.6′ E	**Iso.R.** period 4s	36 **11**	5	Red round concrete tower; 29.	
8124 *M 5546.5*	Mure Ko, breakwater.	34° 20.6′ N 134° 09.4′ E	**Oc.R.** period 5s	36 **11**	5	Red square concrete tower; 32.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			JAPAN-SETO NAIKAI-EASTERN PART (II)				
8128 *M 5545.6*	Inagi Shima.	34° 24.6′ N 134° 08.3′ E	**Fl.W.** period 3s	109 **33**	11	White tower; 39.	F.W. located 223°40′ 2,240 meters from light. Illuminates Siraisi Suo about 280 meters W.
8132 *M 5546*	Kanawa Iwa.	34° 25.3′ N 134° 07.8′ E	**Mo.(A)R.** period 8s	46 **14**	7	STARBOARD (B) R, tower, topmark; 38.	
8136 *M 5545*	Aji Ko, breakwater.	34° 23.2′ N 134° 07.3′ E	**Iso.R.** period 4s	39 **12**	5	Red tower; 31.	
8144 *M 5538*	Ogi Sima.	34° 26.0′ N 134° 03.6′ E	**Fl.W.R.G.** period 10s	52 **16**	12	White round stone tower; 46.	G. 052°-073°, W.-081°, R.-092°, W.-280°.
8150 *M 5538.7*	-Ogi Gyoko.	34° 25.1′ N 134° 03.4′ E	**Fl.R.** period 3s	26 **8**	4	Red tower; 19.	
8152 *M 5538.6*	--Outer breakwater.	34° 25.2′ N 134° 03.2′ E	**Oc.G.** period 4s lt. 3s, ec. 1s	33 **10**	5	White tower; 28.	
8155 *M 5539.25*	Megi Shima, E. breakwater.	34° 23.3′ N 134° 03.2′ E	**Fl.G.** period 3s	25 **8**	5	White tower; 10.	
8156 *M 5539.2*	-W. breakwater.	34° 23.3′ N 134° 03.1′ E	**Iso.R.** period 4s	39 **12**	4	Red tower; 30.	
8160 *M 5539*	-Hotsuchi Hana.	34° 22.8′ N 134° 02.3′ E	**Iso.W.** period 6s	151 **46**	14	White tower; 32.	
	TAKAMATSU KO:						
8164 *M 5540.8*	-Detached breakwater, NE. head.	34° 22.0′ N 134° 03.6′ E	**Oc.R.** period 8s lt. 6s, ec. 2s	52 **16**	11	Red round tower; 46.	
8168 *M 5540.9*	--SW.	34° 21.7′ N 134° 03.3′ E	**Iso.G.** period 6s	42 **13**	5	White tower; 33.	
8172 *M 5541*	-Asahimachi, breakwater, head.	34° 21.6′ N 134° 03.5′ E	**Fl.(2)R.** period 6s	39 **12**	3	Red tower; 30.	
8176 *M 5541.6*	-Breakwater, N. head.	34° 21.7′ N 134° 03.1′ E	**Iso.R.** period 6s	56 **17**	11	Red tower; 46.	
8181 *M 5732.17*	-Aosa Hana, breakwater.	34° 27.9′ N 133° 33.5′ E	**Fl.R.** period 3s	31 **9**	4	Red tower; 19.	
8196 *M 5540.6*	-Breakwater No 8.	34° 21.2′ N 134° 02.0′ E	**Fl.R.** period 3s	36 **11**	5	Red tower; 32.	
8204 *M 5540*	Tsuruuchi Ko, E. breakwater.	34° 21.4′ N 134° 01.1′ E	**Fl.(2)G.** period 6s	36 **11**	3	White tower; 30.	
8205 *M 5539.6*	-Kagawaken.	34° 21.6′ N 134° 00.0′ E	**Fl.R.** period 3s	26 **8**	4	Red tower; 11.	
8208 *M 5536*	Kozuti Sima.	34° 23.8′ N 133° 55.4′ E	**Iso.W.** period 6s	49 **15**	8	White round concrete tower; 39.	
8212 *M 5535*	Kosei Sima.	34° 22.4′ N 133° 51.1′ E	**Fl.W.** period 3s	89 **27**	7	White round concrete tower; 46.	
8216 *M 5533*	Nabe Shima.	34° 22.9′ N 133° 49.4′ E	**Al.R.G.** period 16s	95 **29**	11	White round stone tower; 32.	Visible 191°-091°.
8220 *M 5534*	Yoshima Ko, breakwater No 3.	34° 23.0′ N 133° 49.5′ E	**Iso.G.** period 6s	39 **12**	5	White tower; 28.	
8228 *M 5507*	Honshima Ko, W. breakwater.	34° 22.9′ N 133° 47.1′ E	**Fl.G.** period 5s	39 **12**	7	White round concrete tower; 29.	
8232 *M 5506*	Usi Shima.	34° 22.0′ N 133° 46.8′ E	**Mo.(D)R.** period 10s	46 **14**	7	STARBOARD (B) R, tower, topmark; 43.	Visible 048°-301°.
8236 *M 5504.5*	Enoura Ko.	34° 21.7′ N 133° 43.1′ E	**Iso.G.** period 6s	43 **13**	5	White tower; 31.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
8240 *M 5504*	Habushi Iwa.	34° 20.7′ N 133° 42.8′ E	**Fl.(2)W.** period 5s	49 **15**	7	ISOLATED DANGER BRB, tower, topmark; 43.	
	RACON		**OE(– – – •)**		5		(3cm).
8244 *M 5503.5*	Takami Ko.	34° 18.5′ N 133° 40.9′ E	**Fl.(3)G.** period 12s	39 **12**	7	White round concrete structure; 31.	
8248 *M 5503*	Itamochi Hana.	34° 19.5′ N 133° 39.8′ E	**Oc.W.** period 4s	36 **11**	11	White round concrete tower; 27.	
8252 *M 5502*	Futaomote Shima.	34° 18.1′ N 133° 37.3′ E	**Fl.W.** period 3s	95 **29**	7	White tower; 33.	
8256 *M 5734*	Mukuchi Shima.	34° 25.9′ N 133° 45.6′ E	**Q.W.**	43 **13**	5	N. CARDINAL BY, beacon, topmark; 33.	
8260 *M 5505*	Aoki Ko, breakwater No 1.	34° 22.0′ N 133° 41.2′ E	**Fl.R.** period 3s	39 **12**	7	Red round concrete tower; 28.	
8264 *M 5502.5*	Sanagi Ko, N. breakwater, S. head.	34° 21.0′ N 133° 37.5′ E	**Fl.R.** period 4s	39 **12**	7	Red tower; 28.	
8268 *M 5502.7*	-S. breakwater, N. head.	34° 20.1′ N 133° 37.8′ E	**Iso.G.** period 6s	30 **9**	5	White tower; 18.	
8272 *M 5733*	Mizushima Ko, breakwater.	34° 28.1′ N 133° 44.0′ E	**Fl.(2)G.** period 5s	42 **13**	5	White tower; 32.	
8274 *M 5732.2*	Otosima Ko, breakwater.	34° 31.4′ N 133° 41.4′ E	**Iso.R.** period 6s	39 **12**	3	Red tower; 18.	
8276 *M 5732.4*	-Hachiman, breakwater, S. head.	34° 30.8′ N 133° 39.9′ E	**Fl.G.** period 4s	30 **9**	3	White tower; 24.	
8280 *M 5732.3*	-Tamashima, outer breakwater.	34° 29.8′ N 133° 39.8′ E	**Fl.G.** period 3s	39 **12**	5	White round concrete tower; 29.	
8282 *M 5732.23*	-Sami Gyoko.	34° 30.1′ N 133° 38.4′ E	**Fl.R.** period 3s	28 **9**	4	Red tower; 19.	
8283 *M 5732.19*	Yorishima Ko.	34° 29.3′ N 133° 35.7′ E	**Fl.(2)R.** period 6s	25 **8**	4	Red tower; 17.	
8284 *M 5732.15*	Manabeshima Ko.	34° 21.4′ N 133° 34.8′ E	**Fl.R.** period 3s	43 **13**	3	Red tower; 31.	
8288 *M 5732.04*	Kitagishima Ko.	34° 22.7′ N 133° 32.9′ E	**Fl.(2)R.** period 6s	42 **13**	5	Red tower; 30.	
8292 *M 5732.08*	Toyoura Ko, breakwater, head.	34° 23.8′ N 133° 32.1′ E	**Iso.R.** period 6s	26 **8**	5	Red tower; 18.	
8294 *M 5732.11*	Kanafuro Ko, breakwater.	34° 23.5′ N 133° 31.6′ E	**Fl.G.** period 3s	31 **9**	3	White tower; 18.	
8296 *M 5732.02*	Shiraishishima Ko.	34° 24.7′ N 133° 31.1′ E	**Fl.R.** period 5s	40 **12**	3	Red tower; 28.	
8300 *M 5732*	Okinoshiraishi.	34° 25.0′ N 133° 30.8′ E	**Fl.W.** period 3s	46 **14**	5	White tower; 39.	
8304 *M 5731.9*	Hyakken Zowai.	34° 25.3′ N 133° 29.7′ E	**Mo.(A)G.** period 8s	43 **13**	5	PORT (B) G, tower, topmark; 33.	
8306 *M 5731.85*	Bittyu Takasima Ko.	34° 25.9′ N 133° 30.2′ E	**Iso.G.** period 6s	26 **8**	5	White tower; 19.	
8308 *M 5731.8*	Konoshimasoto Ko.	34° 26.9′ N 133° 30.6′ E	**Fl.R.** period 3s	31 **9**	5	Red tower; 18.	
8310 *M 5507.5*	Kamishinden Ko, breakwater, S. head.	34° 16.6′ N 133° 39.3′ E	**Fl.R.** period 6s	24 **7**	3	Red tower; 18.	
8312 *M 5731.7*	Katashima.	34° 29.0′ N 133° 30.9′ E	**Mo.(A)G.** period 9s	27 **8**	3	Green tower, square daymark; 33.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			JAPAN-SETO NAIKAI-EASTERN PART (II)				
8320 *M 5524*	Sakaide Ko, W. breakwater, head.	34° 19.8′ N 133° 51.0′ E	**Fl.(2)R.** period 6s	36 **11**	5	Red round concrete tower; 26.	
8324 *M 5525*	-Mitubisikasei Sakaide, range, front.	34° 21.1′ N 133° 50.6′ E	**F.G.**	112 **34**	11	Tower, white triangular daymark point up; 105.	
8328 *M 5525.1*	--Rear, 700 meters 181°18′ from front.	34° 20.7′ N 133° 50.6′ E	**F.G.**	184 **56**	11	Tower, white triangular daymark point down; 174.	
8332 *M 5530*	-Sea berth.	34° 21.7′ N 133° 50.2′ E	**Mo.(U)W.** period 14s	115 **35**	10		Mo.(U)W. 14s 12m 9M Siren 200 meters NE. and 230 meters SW. **Radar reflector.**
8336 *M 5521.5*	Kitaura, breakwater, head.	34° 19.5′ N 133° 49.3′ E	**Fl.G.** period 3s	43 **13**	5	White tower; 31.	
8340 *M 5520.8*	Horai-tyo, breakwater, head.	34° 18.6′ N 133° 47.0′ E	**Fl.(2)R.** period 6s	39 **12**	5	Red tower; 27.	
8344 *M 5518*	Syowamati, breakwater, head.	34° 18.3′ N 133° 46.1′ E	**Oc.(2)R.** period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	39 **12**	4	Red tower; 30.	
8348 *M 5515*	Tadotsu Ko, E breakwater, head.	34° 16.6′ N 133° 44.5′ E	**Iso.G.** period 6s	33 **10**	9	White tower; 28.	
8352 *M 5512*	-Inner harbor, W. breakwater, N. head.	34° 17.0′ N 133° 44.2′ E	**Fl.R.** period 3s	36 **11**	5	Red tower; 27.	
8364 *M 5509*	Mitama Iwa.	34° 14.9′ N 133° 40.4′ E	**Mo.(A)R.** period 8s	33 **10**	7	STARBOARD (B) R, tower, topmark; 26.	
8368 *M 5508*	-Suda Ichimonji.	34° 14.1′ N 133° 39.2′ E	**Fl.R.** period 3s	30 **9**	3	Red tower; 18.	
8372 *M 5501*	Hako Saki.	34° 15.6′ N 133° 35.5′ E	**Fl.W.** period 3s	82 **25**	5	White round concrete tower; 26.	
8376 *M 5499*	Sanuki Misaki.	34° 15.7′ N 133° 33.5′ E	**Iso.W.** period 8s	226 **69**	12	White tower; 36.	
8380 *M 5500*	Mushima.	34° 18.0′ N 133° 32.0′ E	**Iso.W.** period 6s	230 **70**	14	White tower; 43.	Visible 204°-099°.
	RACON		**(– – – – – – –)**		**15**		(3cm). Azimuth coverage 202°-110°.
8380.5 *M 5499.9*	-Breakwater, head.	34° 18.6′ N 133° 32.2′ E	**Fl.G.** period 3s	31 **9**	3	White tower; 16.	
8384 *M 5482*	**Taki kami Sima.**	34° 11.7′ N 133° 16.1′ E	**Al.Fl.(2+1)W.R.** period 20s W. fl. 1.5s, ec. 2.5s W. fl. 1.5s, ec. 6.5s R. fl. 1.5s, ec. 6.5s	443 **135**	**17**	White tower; 39.	Visible 034°-279°.
	RACON		**(– – – – – – –)**		**15**		(3cm). Azimuth coverage 027°-285°.
8386 *M 5500.5*	Obi Shima, breakwater.	34° 20.6′ N 133° 30.5′ E	**Fl.G.** period 3s	29 **9**	5	White tower; 18.	
8388 *M 5731*	Hasiri Ko, W.	34° 21.0′ N 133° 25.9′ E	**Fl.G.** period 4s	46 **14**	7	White tower; 33.	
8388.5 *M 5731.2*	-N. side.	34° 20.6′ N 133° 26.9′ E	**Fl.(2)G.** period 6s	29 **9**	3	White tower; 16.	
8392 *M 5730*	Konoishi.	34° 22.0′ N 133° 25.6′ E	**Fl.(2)W.** period 5s	46 **14**	5	ISOLATED DANGER BRB, tower, topmark; 39.	
8393 *M 5729.9*	Approach, No 1.	34° 23.2′ N 133° 26.6′ E	**Fl.(2)G.** period 6s	23 **7**	5	PORT (B) G, beacon, topmark; 26.	Channel marked by lighted buoys and beacons. **Radar reflector.**
8396 *M 5729.8*	Nihonkokan Hukuyama Ko Range, Front.	34° 28.7′ N 133° 26.9′ E	**F.R.**	72 **22**	5	White spar beacon, triangular daymark point up; 69.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
8400 *M 5729.81*	-Rear, 300 meters 000°30′ from front.	34° 28.9′ N 133° 26.9′ E	**F.R.**	125 **38**	5	White spar beacon, triangular daymark point up; 118.	
	HUKUYAMA KO:						
8404 *M 5729.7*	-Range, front.	34° 27.3′ N 133° 24.6′ E	**F.R.**	46 **14**	5	White spar beacon, triangular daymark point up; 39.	
8408 *M 5729.71*	-Rear, about 130 meters 300° from front.	34° 27.4′ N 133° 24.5′ E	**F.R.**	56 **17**	5	White spar beacon, triangular daymark point down; 39.	
8410 *M 5729.5*	-Light beacon.	34° 22.8′ N 133° 23.3′ E	**Mo.(A)R.** period 8s	32 **10**	3	STARBOARD (B) R, beacon, topmark; 25.	
8412 *M 5729.4*	Tomo Ichimonji, detached breakwater, E. head.	34° 22.7′ N 133° 23.0′ E	**Fl.G.** period 3s	39 **12**	3	White tower; 29.	
8416 *M 5729.6*	-Tamatsu Shima, breakwater, head.	34° 22.5′ N 133° 22.9′ E	**Iso.G.** period 6s	39 **12**	5	White tower; 28.	
8420 *M 5729*	Abura Syo.	34° 21.9′ N 133° 21.6′ E	**Fl.(2)W.** period 5s	28 **9**	3	ISOLATED DANGER BRB, beacon, tower; 19.	
8424 *M 5728.5*	Abuto Saki.	34° 22.0′ N 133° 20.8′ E	**Iso.W.** period 6s	289 **88**	8	White tower; 27.	
8428 *M 5728.7*	Hakosaki Ko, breakwater.	34° 21.5′ N 133° 20.3′ E	**Fl.R.** period 3s	46 **14**	3	Red tower; 28.	
	BINGO NADA:						
8436 *M 5727*	-Ono Zowai.	34° 22.6′ N 133° 18.2′ E	**Mo.(D)R.** period 8s	33 **10**	3	STARBOARD (B) R, tower, topmark; 33.	
8440 *M 5726*	-Kurikuwa Zowai.	34° 22.9′ N 133° 17.5′ E	**Mo.(D)G.** period 8s	31 **9**	3	PORT (B) G, tower, topmark; 20.	
8444 *M 5725*	-Katabira Zowai.	34° 22.2′ N 133° 17.0′ E	**Fl.(2)W.** period 5s	31 **9**	5	ISOLATED DANGER BRB, beacon, topmark; 26.	
8448 *M 5725.4*	Yokota Ko, breakwater.	34° 21.0′ N 133° 17.4′ E	**Fl.(2)R.** period 6s	46 **14**	3	Red tower; 31.	
8450 *M 5724.9*	Ebi Ko, breakwater.	34° 23.6′ N 133° 15.7′ E	**Fl.G.** period 3s	30 **9**	3	White tower; 18.	
8450.5 *M 5723.7*	Breakwater, head.	34° 24.0′ N 133° 14.8′ E	**Fl.G.** period 5s	29 **9**	4	White tower; 18.	
8452 *M 5722*	Onomiti.	34° 24.1′ N 133° 11.7′ E	**Fl.W.** period 4s	108 **33**	10	White round concrete tower; 36.	
8456 *M 5723*	Usino Ura.	34° 23.7′ N 133° 10.7′ E	**Fl.(2)W.** period 7s	92 **28**	5	White tower; 33.	
8458 *M 5723.4*	Itozaki Ko.	34° 23.7′ N 133° 09.9′ E	**Iso.G.** period 6s	26 **8**	5	White tower; 19.	
8460 *M 5728*	**Hyakkan Sima.**	34° 18.0′ N 133° 16.5′ E	**Fl.W.** period 10s	246 **75**	**20**	White round stone tower; 30.	
8464 *M 5724.4*	Hosaki, breakwater, head.	34° 18.0′ N 133° 11.8′ E	**Iso.G.** period 6s	43 **13**	5	White tower; 32.	
8468 *M 5724*	Ohama Saki.	34° 21.5′ N 133° 10.4′ E	**Iso.W.R.** period 6s	59 **18**	12	White round stone tower; 30.	W. 120°-125°, R.-130°, W.-312°.
8472 *M 5720*	Tyodayu.	34° 22.4′ N 133° 08.3′ E	**Q.W.**	30 **9**	3	N. CARDINAL BY, beacon, topmark; 22.	
8474 *M 5723.3*	Hoso Sima.	34° 21.6′ N 133° 08.3′ E	**Fl.(2)G.** period 6s	28 **8**	4	White tower; 18.	
8476 *M 5719*	Hakanshima.	34° 21.6′ N 133° 07.5′ E	**Q.(9)W.** period 15s	33 **10**	3	W. CARDINAL YBY, beacon, topmark; 26.	

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			JAPAN-SETO NAIKAI-EASTERN PART (II)				
8478 *M 5719.5*	Sheigei Ko.	34° 20.5′ N 133° 08.2′ E	**Fl.R.** period 3s	26 **8**	4	Red tower; 19.	
8479 *M 5718.5*	Sagi Ko, breakwater.	34° 21.5′ N 133° 07.1′ E	**Fl.G.** period 3s	26 **8**	5	White tower; 20.	
8480 *M 5718*	Sagi Shima.	34° 21.6′ N 133° 07.0′ E	**Oc.W.** period 8s lt. 6s, ec. 2s	89 **27**	4	White tower; 21.	
8484 *M 5717.4*	-Ko Sagi, SE. part of Island.	34° 21.7′ N 133° 06.4′ E	**F.W.**	62 **19**		White round concrete tower; 39.	Illuminates beacon about 130 meters E.
8488 *M 5716*	Kosagi Shima.	34° 21.9′ N 133° 06.0′ E	**Fl.W.** period 4s	79 **24**	7	White round stone tower; 21.	Visible 020°-236°.
8490 *M 5715.5*	Sunami Ko, breakwater.	34° 21.6′ N 133° 05.1′ E	**Fl.R.** period 3s	27 **8**	4	Red tower; 19.	
8492 *M 5715*	Toramaru Syo.	34° 20.5′ N 133° 05.8′ E	**Mo.(A)R.** period 8s	33 **10**	3	STARBOARD (B) R, tower, topmark; 24.	
8496 *M 5714*	Kone Sima.	34° 20.0′ N 133° 04.6′ E	**Iso.W.** period 8s	148 **45**	8	White round concrete tower; 16.	Visible 053°-279°.
8500 *M 5713*	Tadanoumi Ko.	34° 20.2′ N 132° 59.7′ E	**Iso.R.** period 4s	30 **9**	4	Red round concrete tower; 20.	
8504 *M 5712*	Okuno Sima.	34° 18.1′ N 132° 59.6′ E	**Iso.W.R.** period 6s	69 **21**	14	White round stone tower; 28.	W. 231°-035°, R.-056°, W.-100°.
8512 *M 5706*	Mebaruzaki Ko, breakwater, head.	34° 16.7′ N 132° 56.5′ E	**Fl.G.** period 3s	49 **15**	5	White metal framework tower; 36.	
8516 *M 5703*	Kinoe Ko, breakwater.	34° 14.1′ N 132° 55.1′ E	**Fl.R.** period 3s	33 **10**	4	Red round concrete tower; 26.	
8520 *M 5702*	Nakano Hana.	34° 12.9′ N 132° 55.2′ E	**Fl.(3)W.R.** period 13s	148 **45**	11	White round stone tower; 17.	W. 170°-205°, R.-215°, W.-051°.
8524 *M 5700*	Oge Sima.	34° 11.3′ N 132° 55.1′ E	**Fl.W.** period 5s	115 **35**	14	White octagonal stone tower; 30.	Visible 356°-186°.
8526 *M 5721*	Onomiti Itozaki Ko, detached breakwater, S. head.	34° 23.0′ N 133° 06.7′ E	**Fl.G.** period 5s	23 **7**	5	Red tower; 16.	
8528 *M 5710.8*	Inokuti Ko.	34° 16.0′ N 133° 02.7′ E	**Fl.R.** period 4s	31 **9**	5	Red tower; 18.	
8536 *M 5711.2*	Okogi Ko, breakwater, head.	34° 16.8′ N 133° 08.6′ E	**Iso.R.** period 6s	43 **13**	5	Red tower; 31.	
8540 *M 5711.4*	Mitoko Iso.	34° 15.5′ N 133° 07.6′ E	**Mo.(A)R.** period 8s	31 **9**	3	STARBOARD (B) R, beacon, topmark; 26.	
8542 *M 5475.7*	Tayudo Saki, breakwater.	34° 14.3′ N 133° 05.9′ E	**Fl.G.** period 4s	26 **8**	3	White tower; 16.	
8544 *M 5711.5*	Iwagi Ko, breakwater, head.	34° 14.6′ N 133° 08.8′ E	**Fl.G.** period 3s	31 **9**	5	White tower; 18.	
8550 *M 5711.8*	Nagae Ko, breakwater.	34° 16.4′ N 133° 09.6′ E	**F.Fl.R.** period 4s	29 **9**	F. 2 Fl. 5	Red tower; 19.	
8552 *M 5724.2*	Habu Ko, breakwater.	34° 17.6′ N 133° 10.3′ E	**Iso.G.** period 4s	39 **12**	4	White tower; 31.	
8556 *M 5724.8*	Ikina Ko, breakwater, S. head.	34° 15.9′ N 133° 11.3′ E	**Fl.G.** period 4s	30 **9**	3	White tower; 18.	
8560 *M 5724.6*	Yuge Ko.	34° 15.5′ N 133° 11.9′ E	**Fl.G.** period 3s	30 **9**	3	White tower; 18.	
8564 *M 5476*	Hakata Ko, E. breakwater, head.	34° 12.3′ N 133° 07.3′ E	**Fl.G.** period 5s fl. 1s, ec. 4s	36 **11**	5	White tower; 28.	
8566 *M 5476.5*	-Detached breakwater, N. head.	34° 12.3′ N 133° 07.8′ E	**Fl.(2)G.** period 6s	32 **10**	3	White tower; 22.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
8568 *M 5477*	Mutsu Se.	34° 11.7′ N 133° 07.8′ E	**Q.(3)W.** period 10s	36 **11**	5	E. CARDINAL BYB, beacon, topmark; 26.	
8572 *M 5478*	Hunaore Iwa.	34° 11.8′ N 133° 05.5′ E	**Mo.(A)R.** period 8s	39 **12**	5	STARBOARD (B) R, beacon, topmark; 27.	
8576 *M 5479*	Niwatori Ko Sima.	34° 11.5′ N 133° 04.8′ E	**Fl.W.** period 4s	49 **15**	7	White round concrete tower; 20.	
8577 *M 5477.5*	Miyakubo Ko, breakwater.	34° 10.3′ N 133° 04.9′ E	**Fl.G.** period 3s	36 **11**	3	White tower; 22.	
8580 *M 5481*	Simo Komaru Kosima.	34° 13.1′ N 133° 03.4′ E	**Fl.(2)W.** period 7s	69 **21**	5	White tower; 26.	
8582 *M 5479.5*	Edagosi Ko.	34° 12.3′ N 133° 04.3′ E	**Fl.G.** period 3s	30 **9**	3	White tower; 18.	
8584 *M 5480*	Kayatomari Hana.	34° 11.6′ N 133° 01.8′ E	**Fl.W.** period 4s	102 **31**	11	White square concrete tower; 26.	
8588 *M 5480.4*	Watamaki Iso.	34° 09.6′ N 133° 01.8′ E	**Fl.(2)W.** period 5s	28 **9**	5	ISOLATED DANGER BRB, beacon, topmark; 26.	
8592 *M 5498*	Namari Ko, middle breakwater.	34° 15.0′ N 133° 34.5′ E	**F.Fl.G.** period 6s	43 **13**	F. 2 Fl. 5	White round concrete tower; 26.	
	KAN ONZI KO:						
8608 *M 5494*	-N. breakwater, head.	34° 07.5′ N 133° 37.9′ E	**Iso.G.** period 6s	31 **9**	5	White square metal tower; 19.	
8612 *M 5495*	-S. breakwater, head.	34° 07.4′ N 133° 37.9′ E	**Iso.R.** period 6s	39 **12**	8	Red round concrete tower, square base; 32.	
8616 *M 5496*	-Ichimonjii, breakwater, S. head.	34° 07.4′ N 133° 37.7′ E	**Fl.G.** period 4s	30 **9**	5	White tower; 21.	
8620 *M 5484*	Ibuki Ko, breakwater.	34° 08.0′ N 133° 32.1′ E	**Fl.R.** period 4s	43 **13**	7	Red round concrete tower; 28.	
8624 *M 5483*	Aka Saki.	34° 07.5′ N 133° 31.9′ E	**Fl.W.** period 3s	43 **13**	7	White round concrete tower; 27.	
8636 *M 5490*	Sanuki Toyohama Ko, W. breakwater.	34° 04.9′ N 133° 37.8′ E	**Oc.R.** period 4s lt. 3s, ec. 1s	36 **11**	4	Red round concrete tower; 26.	
8640 *M 5488*	Kawanoe Ko,breakwater No 4, head.	34° 01.4′ N 133° 34.3′ E	**Fl.G.** period 3s	33 **10**	5	White tower; 22.	
8645 *M 5488.5*	-Outer breakwater, NE. head.	34° 01.7′ N 133° 34.3′ E	**Fl.(2)R.** period 5s	43 **13**	5	Red tower; 28.	
8647 *M 5484.6*	Mishima, E. detached breakwater, N. head.	34° 00.2′ N 133° 32.0′ E	**Fl.(2)R.** period 6s	36 **11**	5	Red tower; 28.	
8648 *M 5484.65*	-N. detached breakwater, SW. head.	34° 00.4′ N 133° 32.2′ E	**Fl.G.** period 3s	39 **12**	3	White tower; 27.	
8653 *M 5484.4*	-Sangawa Ko.	33° 58.4′ N 133° 30.8′ E	**Fl.R.** period 4s	36 **11**	4	Red tower; 19.	
8654 *M 5475.5*	-Oshima Gyoko, breakwater, S. head.	33° 59.6′ N 133° 22.1′ E	**Fl.R.** period 5s	31 **9**	3	Red tower; 18.	
	NIIHAMA KO:						
8656 *M 5472*	-E. breakwater, head.	33° 58.8′ N 133° 15.9′ E	**Fl.(2)G.** period 6s	43 **13**	7	White tower; 33.	
8660 *M 5473*	-W. breakwater, head.	33° 58.8′ N 133° 15.7′ E	**Iso.R.** period 6s	43 **13**	11	Red tower; 33.	
8672 *M 5471*	-Hunagami Iwa.	33° 58.4′ N 133° 14.2′ E	**Fl.(2)W.** period 5s	33 **10**	5	ISOLATED DANGER BRB, beacon, topmark; 16.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			JAPAN-SETO NAIKAI-EASTERN PART (II)				
8676 *M 5470.7*	Saizjo Ko Range, front.	33° 55.6′ N 133° 10.7′ E	**F.R.** (neon)	23 **7**	6	White round concrete tower, white triangular daymark point up; 22.	
8680 *M 5470.71*	-Rear, about 100 meters 156° from front.	33° 55.5′ N 133° 10.7′ E	**F.R.** (neon)	33 **10**	6	White round concrete tower, white triangular daymark point down; 32.	
8682 *M 5474.8*	Matsunoki, breakwater.	33° 59.1′ N 133° 17.5′ E	**Fl.G.** period 4s	33 **10**	5	White tower; 18.	
8684 *M 5475*	Habu Saki.	33° 59.6′ N 133° 19.2′ E	**Fl.(3)W.** period 13s	174 **53**	7	White tower; 36.	
8686 *M 5475.4*	Takihama Ku.	33° 59.5′ N 133° 20.2′ E	**F.Fl.(2)G.** period 7s	39 **12**	F. 2 Fl. 5	White tower; 28.	
8686.5 *M 5475.2*	-W. breakwater.	33° 59.6′ N 133° 20.0′ E	**Fl.R.** period 3s	39 **12**	5	Red tower; 28.	
8687 *M 5470.6*	Nyukawa Ko, N. breakwater, W. head.	33° 57.3′ N 133° 06.7′ E	**Fl.(3)G.** period 12s	43 **13**	5	White tower; 28.	
8688 *M 5470.5*	-W. breakwater, head.	33° 57.4′ N 133° 06.6′ E	**Fl.(3)R.** period 12s	43 **13**	7	Red tower; 31.	
8692 *M 5470*	Higi Shima.	34° 03.5′ N 133° 05.9′ E	**Fl.W.** period 3s	233 **71**	8	White round concrete tower; 46.	
8696 *M 5470.3*	Okino Se.	34° 06.3′ N 133° 06.4′ E	**Fl.(2)W.** period 5s	49 **15**	11	ISOLATED DANGER BRB, beacon, topmark; 43.	

Section 6

Western Part of Seto Naikai and Shikoku
Including Kii Suido and Bungo Suido

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			JAPAN-SETO NAIKAI-WESTERN PART (I)				
8700 *M 5467*	Imabari Ko, E. breakwater, head.	34° 04.5′ N 133° 00.4′ E	**Iso.G.** period 6s	59 **18**	11	White tower; 62.	
8704 *M 5468*	-N. breakwater, head.	34° 04.5′ N 133° 00.1′ E	**Fl.(2)G.** period 6s	32 **10**	3	White tower; 18.	
8708 *M 5468.5*	-Breakwater, head.	34° 03.9′ N 133° 01.2′ E	**Fl.G.** period 4s	52 **16**	7	White tower; 46.	
8712 *M 5464*	Ryujin Shima.	34° 06.3′ N 133° 01.7′ E	**Fl.W.** period 3s	49 **15**	7	White round concrete tower; 28.	Traffic signals shown from framework tower 810 meters NE.
8716 *M 5456*	Hinai Hana Range, front.	34° 07.7′ N 133° 00.9′ E	**Oc.W.** period 5s lt. 4s, ec. 1s	128 **39**	12	White tower; 25.	
8720 *M 5456.1*	-Rear, about 50 meters 122° from front.	34° 07.7′ N 133° 00.9′ E	**Oc.W.** period 5s lt. 4s, ec. 1s	151 **46**	12	White tower; 31.	
8724 *M 5462*	Kuru Sima.	34° 06.4′ N 132° 59.0′ E	**Fl.R.** period 3s	43 **13**	7	STARBOARD (B) R, tower, topmark; 33.	
8728 *M 5463*	Ama Se.	34° 06.7′ N 132° 58.9′ E	**Fl.R.** period 3s	32 **10**	7	STARBOARD (B) R, tower, topmark; 33.	
8732 *M 5460*	Uzu Hana.	34° 06.7′ N 132° 59.5′ E	**Oc.(2)W.** period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	102 **31**	12	White round concrete tower; 46.	
8736 *M 5459.7*	Koura Saki.	34° 07.1′ N 132° 59.4′ E	**Fl.W.** period 3s	86 **26**	11	White round concrete tower; 28.	
8740 *M 5461*	Nagase Hana.	34° 07.1′ N 132° 59.8′ E	**Iso.W.** period 6s	115 **35**	12	White tower; 26.	
8744 *M 5458*	O Sima.	34° 07.7′ N 132° 59.0′ E	**Fl.(2)R.** period 6s	56 **17**	7	STARBOARD (B) R, beacon, topmark; 43.	
8746 *M 5700.5*	Ago No Hana, Oge Shima, S. point.	34° 11.0′ N 132° 55.9′ E	**Iso.W.** period 6s	56 **17**	8	White tower; 49.	Visible 237°-100°.
8748 *M 5459.3*	Nakano Iso.	34° 07.3′ N 132° 58.4′ E	**Mo.(A)G.** period 8s	36 **11**	5	PORT (B) G, beacon, topmark; 25.	
	Namikata Ko:						
8752 *M 5459.4*	-Hiro Se.	34° 07.5′ N 132° 57.4′ E	**Fl.(2)W.** period 5s	33 **10**	5	ISOLATED DANGER BRB, beacon, topmark; 26.	
8756 *M 5459.44*	-E. breakwater.	34° 07.3′ N 132° 57.4′ E	**Fl.G.** period 3s	36 **11**	5	White tower; 28.	
8760 *M 5454*	Ikada Iso.	34° 08.7′ N 132° 56.1′ E	**Mo.(D)R.** period 8s	46 **14**	5	STARBOARD (B) R, beacon, topmark; 36.	
8764 *M 5452*	Nisiura Oki.	34° 08.1′ N 132° 56.2′ E	**Mo.(A)R.** period 8s	33 **10**	3	STARBOARD (B) R, beacon, topmark; 30.	
8768 *M 5451*	Kazitori Hana Sea Berth.	34° 07.3′ N 132° 54.4′ E	**Mo.(U)W.** period 15s	108 **33**	9		Mo.(U)W. 15s 6M on piers 650 meters E. and 660 meters W.
8772 *M 5450*	Kuru Sima.	34° 07.1′ N 132° 53.5′ E	**Fl.(2)W.** period 7s	207 **63**	13	White tower; 36.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			JAPAN-SETO NAIKAI-WESTERN PART (I)				
8774	*Kurushima Kaikyo Buoy No 7.*	34° 05.7′ N 133° 02.3′ E	**Fl.(2)G.** period 6s			PORT (B) G, pillar, topmark.	
	RACON		**OE(– – – •)**		5		
8776 *M 5652*	Nokutuna Sima.	33° 58.0′ N 132° 41.8′ E	**Oc.(2)W.** period 12s	43 **13**	8	White tower; 21.	
8778 *M 5652.5*	-Breakwater.	33° 58.5′ N 132° 41.2′ E	**Fl.G.** period 3s	30 **9**	5	White tower; 19.	
8780 *M 5651.8*	Ho Saki.	33° 57.1′ N 132° 40.5′ E	**Mo.(A)G.** period 8s	39 **12**	5	PORT (B) G, beacon, topmark; 28.	
8784 *M 5653*	Iyo Nakasima Ko, S. breakwater, head.	33° 58.4′ N 132° 38.0′ E	**Iso.G.** period 6s	39 **12**	5	White tower; 26.	
8788 *M 5448*	Kikuma Sea berth.	34° 03.2′ N 132° 51.2′ E	**Mo.(U)W.** period 10s	95 **29**	10		Auxiliary lights Mo.(U)W. located 150 meters NE. and 170 meters SW. of main light. Private light. **Radar reflector.**
8790 *M 5446*	Kikuma Ko, breakwater, head.	34° 02.3′ N 132° 50.3′ E	**Fl.(2)R.** period 6s	36 **11**	7	Red tower; 31.	
8792 *M 5447*	Siode Iso.	34° 00.9′ N 132° 47.4′ E	**Mo.(A)R.** period 8s	49 **15**	5	STARBOARD (B) R, tower, topmark; 39.	
8796 *M 5444*	Hazumano Hana.	34° 00.0′ N 132° 46.0′ E	**Oc.W.** period 8s lt. 6s, ec. 2s	203 **62**	8	White tower; 33.	
8800 *M 5442*	Hozyo Ko, N. jetty, head.	33° 58.6′ N 132° 46.2′ E	**Fl.(3)G.** period 7s	39 **12**	7	White round concrete tower; 32.	
8804 *M 5441*	-Ka Sima, breakwater.	33° 58.6′ N 132° 45.9′ E	**Fl.R.** period 3s	39 **12**	5	Red round concrete tower; 32.	
8806 *M 5439.8*	Yanagihara Ko, breakwater.	33° 57.3′ N 132° 46.1′ E	**Iso.G.** period 6s	31 **9**	5	White tower; 20.	
8810 *M 5439*	Horie Ko, breakwater, W.	33° 54.4′ N 132° 44.8′ E	**Fl.G.** period 4s	36 **11**	7	White tower; 28.	
8812 *M 5437*	Tumuri Saki.	33° 55.6′ N 132° 42.1′ E	**Fl.(2)W.** period 6s	154 **47**	7	White round concrete tower; 36.	
8816 *M 5710*	Takehara Ko, breakwater, head.	34° 19.6′ N 132° 54.9′ E	**Fl.G.** period 3s	30 **9**	5	White tower; 19.	
8820 *M 5708*	Sakaridani, breakwater.	34° 16.4′ N 132° 55.0′ E	**Iso.G.** period 6s	39 **12**	4	White round concrete tower; 30.	
8822 *M 5709*	Onisi Ko.	34° 15.0′ N 132° 52.6′ E	**Fl.G.** period 3s	30 **9**	3	White tower; 19.	
8824 *M 5710.6*	Ikari Sima.	34° 17.9′ N 132° 52.5′ E	**Mo.(A)G.** period 8s	36 **11**	5	PORT (B) G, tower, topmark; 26.	
8828 *M 5698.4*	Tukuga Sima.	34° 15.6′ N 132° 50.1′ E	**Mo.(A)R.** period 8s	33 **10**	5	STARBOARD (B) R, beacon, topmark; 27.	
8830 *M 5699.4*	Akitu Ko, E. harbor, breakwater.	34° 18.9′ N 132° 49.5′ E	**Fl.(2)G.** period 6s	30 **9**	3	White tower; 18.	
8832 *M 5699*	Akitu Ko, breakwater.	34° 18.9′ N 132° 49.2′ E	**Fl.G.** period 5s	36 **11**	7	White round concrete tower; 28.	
8834 *M 5697.9*	Mituguti Wan Bridge.	34° 16.6′ N 132° 47.4′ E	**Iso.R.** period 4s	75 **23**	3		
			Iso.G. period 4s	66 **20**	3		F.Y. mark extremity of bridge.
8836 *M 5698*	Simoikari Iso.	34° 15.2′ N 132° 47.6′ E	**Fl.(2)W.** period 5s	31 **9**	5	ISOLATED DANGER BRB, beacon, topmark; 24.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			JAPAN-SETO NAIKAI-WESTERN PART (I)				
8840 *M 5697.5*	Kinoe Sea berth.	34° 12.6′ N 132° 51.2′ E	**Mo.(U)W.** period 15s	46 **14**	9		Mo.(U)W. 15s 5M marks end of pier.
8844 *M 5697.6*	Okiura Ko, breakwater, head.	34° 12.3′ N 132° 52.5′ E	**Iso.G.** period 4s	43 **13**	3	White tower; 31.	
8846 *M 5697.7*	Okamura Ko, breakwater.	34° 11.0′ N 132° 53.1′ E	**F.Fl.G.** period 3s	32 **10**	F. 2 Fl. 5	White tower; 18.	
8848 *M 5697*	Mitarai Ko, breakwater, head.	34° 10.7′ N 132° 52.1′ E	**Iso.G.** period 6s	46 **14**	5	White round concrete tower; 32.	
8852 *M 5697.1*	-Otyo, breakwater.	34° 10.9′ N 132° 51.7′ E	**Fl.G.** period 4s	39 **12**	3	White tower; 32.	
8856 *M 5697.2*	O Sima, Mitarai approach.	34° 11.7′ N 132° 51.3′ E	**Fl.W.** period 3s	36 **11**	7	White round column, square base; 31.	
8860 *M 5697.4*	Kubi Ura, breakwater, W. head.	34° 11.3′ N 132° 49.7′ E	**Fl.G.** period 4s	39 **12**	5	White tower; 26.	
8864 *M 5696.4*	Toyosima Ko, No 1 breakwater.	34° 10.5′ N 132° 48.0′ E	**Oc.G.** period 4s lt. 3s, ec. 1s	46 **14**	4	White concrete tower; 33.	F.R., F.G. and F.Y. mark bridge 0.5 mile S.
8868 *M 5695.8*	Kamagarini Sima.	34° 11.5′ N 132° 45.7′ E	**Fl.W.** period 4s	31 **9**	5	White square concrete tower; 26.	
8872 *M 5695.7*	Kamagari Ko, E. breakwater.	34° 11.8′ N 132° 44.2′ E	**Fl.G.** period 3s	42 **13**	5	White tower; 31.	
8880 *M 5697.8*	Kawaziri Ko, breakwater, head.	34° 14.0′ N 132° 41.9′ E	**Fl.R.** period 3s	29 **9**	5	Red tower; 18.	
8886 *M 5695.5*	Kamagari Ko, N. breakwater.	34° 11.7′ N 132° 40.9′ E	**Fl.(2)R.** period 6s	23 **7**	3	Red tower; 16.	
8888 *M 5695*	Kasane Iwa.	34° 12.5′ N 132° 39.6′ E	**Fl.W.** period 4s	27 **8**	5	White tower; 17.	
8890 *M 5695.56*	Kamagari, bridge.	34° 11.1′ N 132° 41.1′ E	**2 F.W.**	79 **24**	5		Visible 357°-067° and 177°-247°. F.G., F.R., F.Y. mark bridge.
8892 *M 5696*	Kamo Se.	34° 08.7′ N 132° 45.4′ E	**Fl.W.** period 4s	69 **21**	5	White tower; 23.	
8896 *M 5445*	Ai Shima.	34° 04.2′ N 132° 42.6′ E	**Oc.W.** period 4s lt. 3s, ec. 1s	217 **66**	14	White tower; 36.	
8900 *M 5651.3*	Uta Saki.	34° 01.1′ N 132° 38.7′ E	**Fl.W.** period 4s	45 **14**	12	White round concrete tower; 39.	
8902 *M 5651.2*	Nisinaka Ko, breakwater.	33° 59.1′ N 132° 36.3′ E	**Iso.R.** period 6s	32 **10**	5	Red tower; 22.	
8904 *M 5654*	Mitsu Ishi.	34° 01.7′ N 132° 33.3′ E	**Fl.W.** period 3s	52 **16**	7	White tower; 31.	
8908 *M 5656*	Aki Sengai.	34° 04.4′ N 132° 33.8′ E	**Q.(3)W.** period 10s	33 **10**	5	E. CARDINAL BYB, beacon, topmark; 39.	
8912 *M 5655*	Kurahashi Ko, breakwater.	34° 04.2′ N 132° 32.4′ E	**Iso.G.** period 6s	46 **14**	5	White round concrete tower; 27.	F.W., F.R., F.G. and F.Y. mark bridge 200 meters SE.
8914 *M 5654.5*	Aki Manaita Ishi.	34° 02.3′ N 132° 32.0′ E	**Fl.(2)W.** period 5s	36 **11**	5	ISOLATED DANGER BRB, beacon, topmark; 26.	
8916 *M 5664*	Nishi Gobanno Bae.	34° 03.9′ N 132° 26.4′ E	**Q.(9)W.** period 15s	49 **15**	7	W. CARDINAL YBY, beacon, topmark; 39.	
8920 *M 5662*	Hashirajima Ko, E. breakwater.	34° 01.4′ N 132° 25.3′ E	**Iso.G.** period 4s	52 **16**	5	White tower; 32.	
8924 *M 5668*	Aki Shira Ishi.	34° 10.7′ N 132° 20.9′ E	**Fl.(2)W.** period 5s	62 **19**	7	ISOLATED DANGER BRB, beacon, topmark; 66.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			JAPAN-SETO NAIKAI-WESTERN PART (I)				
8928 *M 5677.4*	Kanokawa Ko, breakwater.	34° 11.5′ N 132° 26.5′ E	**Fl.(2)R.** period 6s	27 **8**	4	Red tower; 19.	
8932 *M 5677.2*	-Mitsubishi Shoji Sea berth.	34° 10.7′ N 132° 26.0′ E	**Mo.(U)W.** period 15s	46 **14**	10		
8936 *M 5678*	Hata Ko, W. breakwater.	34° 12.1′ N 132° 24.5′ E	**Iso.G.** period 6s	43 **13**	5	White tower; 31.	
8940 *M 5678.4*	-Korenage, breakwater.	34° 12.9′ N 132° 23.7′ E	**Fl.G.** period 3s	39 **12**	5	White tower; 31.	
8944 *M 5675.7*	Kuba Ko, breakwater.	34° 15.4′ N 132° 14.1′ E	**Fl.G.** period 4s	39 **12**	5	White tower; 22.	
8948 *M 5675.4*	Otake Ko, breakwater, head.	34° 14.0′ N 132° 13.4′ E	**Iso.R.** period 6s	39 **12**	9	Red tower; 32.	
8949 *M 5675.6*	-Detached breakwater.	34° 14.0′ N 132° 13.8′ E	**Fl.(2)R.** period 6s	31 **9**	4	Red tower; 19.	
8952 *M 5671*	Iwakuni Ko, N. breakwater, head.	34° 11.6′ N 132° 14.1′ E	**Fl.R.** period 3s	26 **8**	5	Red tower; 23.	
8956 *M 5669*	Atada Ko.	34° 11.7′ N 132° 18.9′ E	**Fl.R.** period 3s	30 **9**	5	Red tower; 18.	
8958 *M 5670*	-S. breakwater, head.	34° 11.7′ N 132° 19.1′ E	**Fl.(2)R.** period 8s	29 **9**	4	Red tower; 19.	
8964 *M 5679*	Manaita Sho.	34° 15.1′ N 132° 21.6′ E	**Fl.(2)W.** period 5s	36 **11**	5	ISOLATED DANGER BRB, beacon, topmark; 30.	
8968 *M 5680.6*	Mino Ko, breakwater, E. head.	34° 15.5′ N 132° 22.9′ E	**Oc.R.** period 4s lt. 3s, ec. 1s	39 **12**	4	Red tower; 31.	
8972 *M 5680.8*	Mitaka Ko, W. breakwater, head.	34° 15.6′ N 132° 24.4′ E	**Fl.R.** period 4s	39 **12**	5	Red tower; 31.	
8976 *M 5680.9*	Kasa Iso.	34° 15.8′ N 132° 24.8′ E	**Fl.(2)W.** period 5s	32 **10**	3	ISOLATED DANGER BRB, beacon, topmark; 25.	
8977 *M 5678.6*	Eta Uchi.	34° 14.2′ N 132° 26.2′ E	**Fl.(2)R.** period 6s	27 **8**	4	Red tower; 19.	
8978 *M 5680.95*	Sejou Ko.	34° 15.1′ N 132° 27.5′ E	**Fl.R.** period 3s	25 **8**	4	Red tower; 19.	
8980 *M 5680*	Nakano Se.	34° 16.2′ N 132° 22.5′ E	**Mo.(D)G.** period 8s	39 **12**	5	PORT (B) G, beacon, topmark; 49.	
8984 *M 5681*	Aki Eno Shima.	34° 17.4′ N 132° 21.7′ E	**Fl.W.** period 4s	161 **49**	7	White round concrete tower; 46.	
8988 *M 5680.4*	Ando Shima.	34° 16.6′ N 132° 24.3′ E	**Fl.W.** period 4s	59 **18**	5	White tower; 30.	
8992 *M 5689*	Dogen Isi.	34° 18.0′ N 132° 26.8′ E	**Mo.(A)G.** period 8s	26 **8**	4	PORT (B) G, beacon, topmark; 20.	
8994 *M 5688.4*	Nino Sima Ko, N. breakwater, head.	34° 18.9′ N 132° 25.9′ E	**F.Fl.R.** period 3s	27 **8**	F. 2 Fl. 5	Red tower; 19.	
8996 *M 5691*	Eta Sima.	34° 17.1′ N 132° 28.5′ E	**Fl.R.** period 4s	39 **12**	5	Red tower; 31.	
9000 *M 5690*	Yakataisi.	34° 17.9′ N 132° 28.7′ E	**Q.W.**	25 **8**	5	N. CARDINAL BY, beacon, topmark; 26.	
9004 *M 5687*	**Uzina.**	34° 20.4′ N 132° 27.8′ E	**Al.Fl.W.R.** period 10s	151 **46**	W. **17** R. **15**	White round concrete tower, octagonal base; 69.	
9008 *M 5687.5*	-Harbor, E. breakwater.	34° 20.7′ N 132° 27.4′ E	**Iso.R.** period 6s	56 **17**	8	Red round concrete tower; 62.	
9012 *M 5687.4*	--W. breakwater.	34° 20.7′ N 132° 27.2′ E	**Iso.G.** period 6s	56 **17**	11	White tower; 62.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			JAPAN-SETO NAIKAI-WESTERN PART (I)				
9020 *M 5686*	-AVIATION LIGHT.	34° 22.2′ N 132° 25.2′ E	**Al.Fl.W.G.** period 4.3s	79 **24**		Metal framework tower.	
9022 *M 5685*	-Tower.	34° 21.2′ N 132° 24.8′ E	**Mo.(U)W.** period 12s	29 **9**	3		
9023 *M 5684.2*	-Mitsubishi Shipyard, detached breakwater, E. head.	34° 21.4′ N 132° 24.9′ E	**Fl.G.** period 3s	21 **6**	3	White tower; 12.	
9023.5 *M 5684.4*	--W. head.	34° 21.4′ N 132° 24.8′ E	**Fl.R.** period 3s	21 **6**	3	Red tower; 12.	
9024 *M 5684*	-Kusatu Gyoko.	34° 21.6′ N 132° 24.1′ E	**Fl.R.** period 5s	39 **12**	7	Red tower; 31.	Visible 300°-210°.
9028 *M 5683*	-Breakwater, head.	34° 21.7′ N 132° 23.9′ E	**Iso.G.** period 4s	36 **11**	5	White tower; 28.	
9034 *M 5681.4*	Hirosima Ko Sea berth.	34° 20.3′ N 132° 20.4′ E	**Mo.(U)W.** period 10s	39 **12**	10	Terminal.	Auxiliary lights Mo.(U)W. 10s 5M located 110 meters NE. and 130 meters SW. of main light.
9036 *M 5681.2*	-Zigozen Ko, W. breakwater.	34° 20.3′ N 132° 19.4′ E	**Iso.G.** period 6s	43 **13**	5	White tower; 31.	
9040 *M 5677*	Kame Iso.	34° 17.6′ N 132° 17.7′ E	**Mo.(A)G.** period 8s	33 **10**	5	PORT (B) G, beacon, topmark; 23.	Two F.R. lights are shown on NW. side of Itsuku Shima.
9044 *M 5676.4*	Kaminohama Ko, breakwater, head.	34° 17.4′ N 132° 17.1′ E	**Fl.G.** period 3s	26 **8**	3	White tower; 18.	
9050 *M 5692.5*	Koyo Ko, breakwater.	34° 15.0′ N 132° 29.7′ E	**Fl.(2)G.** period 6s	30 **9**	3	White tower; 18.	
9052 *M 5692*	Kourume Sima.	34° 14.4′ N 132° 31.1′ E	**Fl.W.** period 4s	72 **22**	11	White tower; 36.	
9054 *M 5692.7*	Akizuki, breakwater, head.	34° 13.7′ N 132° 29.6′ E	**Fl.(2)R.** period 6s	27 **8**	3	Red tower; 16.	
9056 *M 5693*	Ondo	34° 12.0′ N 132° 32.2′ E	**Iso.W.** period 6s	125 **38**	12	White tower; 31.	Bridge marked by 2 F.R., 2 F.W., and 2 F.G.
9060 *M 5694*	Hiro Wan Range, front.	34° 13.5′ N 132° 36.9′ E	**F.R.**	79 **24**	8	Metal column, white triangular daymark point up; 62.	
9064 *M 5694.1*	-Rear, 127 meters 029°06′ from front.	34° 13.5′ N 132° 37.0′ E	**F.R.**	89 **27**	8	Metal column, white triangular daymark point up; 80.	
9068 *M 5694.5*	Hiro Wan Aga Oki, W. breakwater, head.	34° 13.2′ N 132° 35.7′ E	**Fl.R.** period 3s	39 **12**	5	Red square structure; 30.	
9072 *M 5666.5*	Kakiura Ko, breakwater, head.	34° 10.8′ N 132° 28.5′ E	**Fl.G.** period 4s	42 **13**	3	White tower; 30.	
9076 *M 5666*	Ogaki Ko, N. breakwater, head.	34° 10.6′ N 132° 28.9′ E	**Fl.G.** period 3s	36 **11**	5	White round tower; 29.	
9080 *M 5665.5*	Akitahara Ko, S. breakwater.	34° 10.4′ N 132° 29.9′ E	**Fl.R.** period 5s	42 **13**	3	Red tower; 31.	
9088 *M 5664.7*	Ryosida Ko, S. breakwater.	34° 08.7′ N 132° 30.3′ E	**F.Fl.R.** period 3s	36 **11**	F. 2 Fl. 5	Red tower; 17.	
9092 *M 5664.4*	Dentarohana.	34° 06.5′ N 132° 26.9′ E	**Fl.W.** period 4s	56 **17**	7	White tower; 28.	
9094	Iwakuni, N. breakwater, head.	34° 08.1′ N 132° 15.5′ E	**Q.(2)R.** period 6s	33 **10**	7		
9095	-S. breakwater, head.	34° 07.9′ N 132° 15.4′ E	**Q.(2)G.** period 6s	36 **11**			
9096 *M 5663*	Yuu Ko, breakwater.	34° 02.6′ N 132° 13.2′ E	**Iso.R.** period 6s	39 **12**	9	Red tower; 32.	
9100 *M 5658*	Kuka Ko.	33° 57.3′ N 132° 17.0′ E	**Fl.(2)W.** period 8s	118 **36**	7	White round concrete tower; 36.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			JAPAN-SETO NAIKAI-WESTERN PART (I)				
9102 *M 5660*	-E. breakwater, head.	33° 57.1′ N 132° 16.3′ E	**Fl.(2)G.** period 6s	26 **8**	5	White tower; 18.	
9104 *M 5659*	Kuka Ko, breakwater.	33° 57.0′ N 132° 15.8′ E	**Fl.G.** period 4s	39 **12**	5	White tower; 29.	
9106 *M 5657.5*	Ukashima Ko.	33° 57.7′ N 132° 20.8′ E	**Fl.G.** period 3s	20 **6**	3	White tower; 16.	
9108 *M 5657*	Ihota Ko.	33° 56.7′ N 132° 26.4′ E	**Fl.R.** period 4s	42 **13**	5	Red round structure; 33.	
9110 *M 5638*	Osima Bridge.	33° 57.5′ N 132° 11.1′ E	**2 F.W.**	105 **32**	9		Visible 028°-094° and 208°-274°. Marks center of channel. Vertical clearance 30 meters. F.G. and F.R. mark edges of channel. **Siren:** 1 bl. ev. 18s (bl. 3s, si. 15s).
9112 *M 5636*	O Iso.	33° 57.2′ N 132° 10.6′ E	**Fl.W.** period 3s	46 **14**	5	White tower; 46.	
9116 *M 5634.5*	Yanai Ko.	33° 57.2′ N 132° 08.3′ E	**Fl.(2)R.** period 6s	43 **13**	5	Red tower; 29.	
9120 *M 5632*	-E. breakwater, head.	33° 57.1′ N 132° 08.3′ E	**Fl.(2)G.** period 6s	36 **11**	5	White tower; 28.	
9124 *M 5634*	-W. breakwater, head.	33° 57.1′ N 132° 08.1′ E	**Fl.R.** period 3s	40 **12**	5	Red tower; 28.	
9128 *M 5436*	**Turu Shima.**	33° 53.6′ N 132° 38.3′ E	**Al.Fl.W.R.** period 16s	190 **58**	W. **20** R. **18**	White round stone tower; 33.	Visible 007°-250°.
	RACON		**Q(– – • –)**		9		(3cm). Azimuth coverage 352°-252°.
9130 *M 5651.75*	Iyokounoura Ko.	33° 56.9′ N 132° 36.4′ E	**Fl.G.** period 3s	30 **9**	3	White tower; 18.	
9132 *M 5651.7*	Huguri Iwa.	33° 56.1′ N 132° 36.4′ E	**Q.(6)+L.Fl.W.** period 15s	46 **14**	5	S. CARDINAL YB, beacon, topmark; 36.	
9136 *M 5651.6*	Oichi Shima.	33° 54.6′ N 132° 35.3′ E	**Fl.W.** period 3s	46 **14**	5	White tower; 32.	
9140 *M 5645*	Yuri Sima.	33° 50.7′ N 132° 32.0′ E	**Fl.(3)W.** period 12s	105 **32**	5	White tower; 36.	
9144 *M 5644.4*	Ao Sima.	33° 44.1′ N 132° 28.6′ E	**Fl.(2)W.** period 8s	335 **102**	12	White round concrete tower; 43.	
9148 *M 5644*	Kominase Sima.	33° 46.7′ N 132° 23.5′ E	**Fl.W.** period 4s	66 **20**	7	White round concrete tower; 49.	
9152 *M 5418.5*	Heigon Ko.	33° 46.9′ N 132° 15.6′ E	**Fl.R.** period 4s	29 **9**	3	Red tower; 18.	
9156 *M 5418*	Okino Se.	33° 45.9′ N 132° 15.3′ E	**Fl.G.** period 4s	26 **8**	5	PORT (B) G, tower, topmark; 16.	
9160 *M 5414*	**Ya Shima.**	33° 42.8′ N 132° 08.0′ E	**Fl.W.** period 10s	193 **59**	**20**	White square concrete tower; 36.	Visible 251°-115°.
9162	*Iyo Nada, buoy No 5.*	33° 41.4′ N 132° 08.2′ E	**Mo.(A)W.** period 8s			SAFE WATER RW, pillar, topmark.	
	RACON		**G(– – •)**		5		(3cm).
9164 *M 5412*	Hoziro Sima.	33° 44.0′ N 132° 00.9′ E	**Fl.W.** period 3s	128 **39**	7	White round concrete tower; 26.	
9168 *M 5647*	Okozeiwa.	33° 59.4′ N 132° 32.0′ E	**Mo.(A)R.** period 8s	36 **11**	3	STARBOARD (B) R, beacon, topmark; 26.	
9172 *M 5649*	Kazakiri Hana.	33° 59.7′ N 132° 34.0′ E	**Fl.(2)W.** period 7s	39 **12**	7	White tower; 28.	

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			JAPAN-SETO NAIKAI-WESTERN PART (I)				
9176 *M 5650*	Kudako Sima.	33° 58.1′ N 132° 33.9′ E	**Iso.W.** period 6s	187 **57**	12	White round stone tower; 33.	
9180 *M 5651*	Heyano Hana.	33° 58.1′ N 132° 34.8′ E	**Fl.(3)W.** period 13s	174 **53**	7	White tower; 36.	
9184 *M 5646.5*	Aburatori Se.	33° 58.4′ N 132° 30.8′ E	**Mo.(A)G.** period 8s	40 **12**	5	PORT (B) G, beacon, topmark; 26.	
9186 *M 5646.7*	Nuwazima Suido, breakwater, head.	33° 58.9′ N 132° 31.0′ E	**Fl.(3)G.** period 12s	30 **9**	3	White tower; 22.	
9188 *M 5646*	Nenasi Syo.	33° 56.8′ N 132° 29.9′ E	**Fl.(2)W.** period 5s	56 **17**	5	ISOLATED DANGER BRB, beacon, topmark; 56.	
9190 *M 5646.3*	Nasake Sima.	33° 57.2′ N 132° 28.4′ E	**Fl.W.** period 3s	39 **12**	5	White tower; 31.	
9192 *M 5645.4*	Oisi.	33° 55.2′ N 132° 28.3′ E	**Mo.(D)G.** period 8s	43 **13**	5	PORT (B) G, beacon, topmark; 33.	
9196 *M 5645.6*	Yuta Ko, A breakwater.	33° 55.9′ N 132° 26.1′ E	**Iso.G.** period 6s	43 **13**	4	White tower; 32.	
9200 *M 5640*	Setono Isi.	33° 51.6′ N 132° 21.6′ E	**Mo.(A)G.** period 8s	32 **10**	3	PORT (B) G, beacon, topmark; 23.	
9202 *M 5641*	Okikamuro Sima.	33° 50.7′ N 132° 21.9′ E	**Mo.(C)G.** period 13s	49 **15**	7	PORT (B) G, beacon, topmark; 36.	
9204 *M 5642*	Sengai Se.	33° 49.4′ N 132° 22.0′ E	**Fl.(2)W.** period 5s	23 **7**	5	ISOLATED DANGER BRB, beacon, topmark; 16.	
9208 *M 5639.4*	Siraki Ko, breakwater.	33° 53.1′ N 132° 20.0′ E	**Iso.G.** period 6s	39 **12**	4	White tower; 28.	
9210 *M 5639.2*	-Breakwater.	33° 54.0′ N 132° 17.3′ E	**Fl.G.** period 3s	33 **10**	3	White tower; 18.	
9212 *M 5639*	Agenosyoko, W. breakwater, head.	33° 54.0′ N 132° 17.0′ E	**F.Fl.R.** period 5s	36 **11**	F. 3 Fl. 7	Red tower; 28.	
9216 *M 5628*	Simo-Ninai Sima, on summit.	33° 50.8′ N 132° 11.0′ E	**Fl.(4)W.** period 14s	387 **118**	8	White tower; 39.	
9220 *M 5627*	Kajikake Iwa.	33° 50.0′ N 132° 08.8′ E	**Mo.(A)G.** period 8s	43 **13**	5	PORT (B) G, beacon, topmark; 33.	
9224 *M 5415*	Yasima Ko, breakwater.	33° 43.8′ N 132° 08.6′ E	**Fl.R.** period 3s	43 **13**	3	Red tower; 32.	
9228 *M 5413*	Amata Sima.	33° 46.3′ N 132° 03.1′ E	**Fl.(2)W.** period 6s	49 **15**	5	White round metal tower; 32.	
9232 *M 5410*	Hanaguri Shima.	33° 47.1′ N 132° 01.4′ E	**Fl.W.** period 5s	98 **30**	5	White tower; 33.	
9236 *M 5435*	Mutuyama Ko.	33° 53.7′ N 132° 42.4′ E	**Fl.R.** period 3s	33 **10**	5	Red tower; 18.	
9240 *M 5433.8*	Outer Harbor, breakwater No 2, N. head.	33° 52.1′ N 132° 41.9′ E	**Fl.(2)R.** period 7s	59 **18**	7	Red tower; 52.	
9244 *M 5434*	Breakwater, N. head.	33° 52.0′ N 132° 42.4′ E	**Iso.R.** period 4s	36 **11**	3	Red tower; 28.	
9246 *M 5432.9*	-Offshore, S. beacon.	33° 50.4′ N 132° 40.9′ E	**Mo.(D)Y.** period 8s	36 **11**	5	SPECIAL Y, beacon, “X” topmark; 36.	**Radar reflector.**
9247 *M 5432.95*	--N. beacon.	33° 50.7′ N 132° 40.5′ E	**Mo.(N)Y.** period 8s	36 **11**	5	SPECIAL Y, beacon, “X” topmark; 36.	**Radar reflector.**
9248 *M 5433*	Yosidahama, breakwater.	33° 50.9′ N 132° 41.5′ E	**Fl.R.** period 5s	36 **11**	5	Red round concrete tower; 18.	
9252 *M 5432.6*	AVIATION LIGHT.	33° 49.9′ N 132° 41.9′ E	**Al.Fl.W.G.** period 4.3s	66 **20**	W. 3 G. 1	Metal framework tower.	

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			JAPAN-SETO NAIKAI-WESTERN PART (I)				
9256 *M 5432.8*	Breakwater.	33° 49.1′ N 132° 41.0′ E	**Fl.R.** period 3s	43 **13**	4	Red round concrete tower; 36.	
9260 *M 5432*	Masaki Ko, W. breakwater.	33° 47.2′ N 132° 41.5′ E	**Fl.R.** period 3s	39 **12**	5	Red tower; 26.	
9264 *M 5431*	Guntyu Ko, W. breakwater, head.	33° 45.6′ N 132° 41.6′ E	**Fl.(2)R.** period 7s	43 **13**	3	Red tower; 31.	
9268 *M 5430.5*	Kaminada Ko, breakwater, N. head.	33° 41.4′ N 132° 38.2′ E	**Iso.R.** period 4s	43 **13**	9	Red round concrete tower; 31.	Spotlight illuminates W. head of breakwater 75 meters N.
9270 *M 5430*	Iyotoyota Ko, W. breakwater.	33° 39.2′ N 132° 34.6′ E	**Fl.R.** period 3s	52 **16**	5	Red tower; 31.	
9272 *M 5428*	Nagahama Ko, N. breakwater.	33° 37.2′ N 132° 29.4′ E	**Fl.(2)R.** period 6s	36 **11**	5	Red round concrete tower; 18.	
9276 *M 5429*	-E. breakwater, N. head.	33° 37.1′ N 132° 29.4′ E	**Iso.G.** period 6s	39 **12**	10	White round concrete tower; 32.	
9280 *M 5427.8*	Kusyu Ko, W. breakwater, head.	33° 34.5′ N 132° 26.4′ E	**F.Fl.R.** period 4s	49 **15**	F. 1 Fl. 3	Red tower; 32.	
9284 *M 5427.5*	**Husuma Hana.**	33° 28.4′ N 132° 15.6′ E	**Fl.W.** period 10s	197 **60**	**20**	White square concrete tower; 36.	Visible 040°-253°.
9288 *M 5427*	Mitukue Ko.	33° 27.5′ N 132° 15.1′ E	**Iso.R.** period 6s	43 **13**	4	Red tower; 31.	
9292 *M 5426*	Mimai Saki.	33° 25.1′ N 132° 07.3′ E	**Iso.W.** period 6s	240 **73**	8	White concrete column; 33.	
9296 *M 5424*	**Sada Misaki.**	33° 20.6′ N 132° 00.9′ E	**Fl.(3)W.** period 20s	161 **49**	**19**	White octagonal concrete tower; 59.	Visible 265°-214°.
			F.W.	121 **37**			Illuminates beacon on Ogon Bac, 650 meters SSW.
	RAMARK				**21**		
9300 *M 4947*	Bungo Hira Se.	33° 16.7′ N 131° 54.5′ E	**Fl.(2)W.** period 5s	43 **13**	12	ISOLATED DANGER BRB, beacon, topmark; 39.	
9304 *M 4947.04*	Asike Bae.	33° 16.8′ N 131° 57.8′ E	**Fl.W.** period 3s	69 **21**	14	White round concrete structure; 49.	Visible 089°-054°.
9308 *M 4946*	**Seki Saki.**	33° 16.0′ N 131° 54.1′ E	**Iso.W.** period 8s	226 **69**	**22**	White round metal tower; 33.	Visible 094°-360°.
9310 *M 4945.5*	Koguro Ko.	33° 15.2′ N 131° 53.7′ E	**Fl.R.** period 3s	30 **9**	3	Red tower; 16.	
9312 *M 4945*	Saganoseki Gyoko.	33° 14.6′ N 131° 53.0′ E	**Iso.R.** period 4s	43 **13**	12	Red tower; 31.	
9316 *M 4944*	Fishery Harbor, E. breakwater.	33° 14.6′ N 131° 52.7′ E	**F.Fl.R.** period 6s	36 **11**	F. 6 Fl. 11	Red round concrete tower; 28.	
9320 *M 4946.6*	-W. breakwater.	33° 15.1′ N 131° 52.0′ E	**Fl.R.** period 3s	36 **11**	5	Red round concrete structure; 28.	
9321 *M 4947.06*	Kozaki Ko, breakwater.	33° 14.5′ N 131° 47.4′ E	**Fl.G.** period 3s	33 **10**	5	White concrete tower; 22.	
9322 *M 4947.08*	Hiyosibaru Hakuti, E. breakwater, head.	33° 15.5′ N 131° 46.3′ E	**Iso.G.** period 6s	59 **18**	13	White tower; 62.	
9324 *M 4947.12*	Oita Ko, breakwater, head.	33° 15.1′ N 131° 46.9′ E	**Fl.R.** period 4s	30 **9**	4	Red tower; 25.	
9328 *M 4947.11*	-Sea Berth.	33° 14.9′ N 131° 46.9′ E	**Mo.(U)R.** period 12s	30 **9**	5		
9332 *M 4947.1*	**Ekikagasu Bitiku.**	33° 15.4′ N 131° 46.6′ E	**Mo.(U)W.** period 12s	102 **31**	**15**		Mo.(U)W. 12s 180 meters W. and 190 meters ESE.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			JAPAN-SETO NAIKAI-WESTERN PART (I)				
9336 *M 4947.15*	-S.	33° 15.2′ N 131° 46.6′ E	**Dir.W.R.G.**	49 **15**	W. 3 R. 1 G. 1	White tower; 36.	F.R. 188°-190°30′, F.W.-195°30′, F.G.-198°.
9338 *M 4947.09*	-Breakwater, NE. head.	33° 15.5′ N 131° 46.2′ E	**Fl.(2)R.** period 6s	39 **12**	11	Red tower; 28.	
9340 *M 4947.18*	-Breakwater, W. head.	33° 15.4′ N 131° 44.5′ E	**Fl.(2)G.** period 6s	43 **13**	8	White tower; 33.	
9341 *M 4947.19*	-E. head.	33° 15.6′ N 131° 44.2′ E	**Fl.(2)R.** period 6s	39 **12**	6	Red tower; 29.	
9342 *M 4947.3*	Oita Ko, LNG berth.	33° 16.6′ N 131° 42.7′ E	**Mo.(U)W.** period 12s	82 **25**	14	Dolphin.	Mo.(U)W. 12s 7M on dolphins 220 meters SE. and 200 meters NW.
9344 *M 4947.26*	-No 1.	33° 16.8′ N 131° 41.1′ E	**Mo.(U)R.** period 8s	30 **9**	10	Dolphin.	Auxiliary Mo.(U)R. 8s, 250 meters WNW. and 480 meters W.
9348 *M 4947.4*	-Tsurasaki, E. breakwater, head.	33° 16.8′ N 131° 40.8′ E	**Fl.(2)G.** period 6s	43 **13**	5	White round concrete tower; 28.	
9352 *M 4947.5*	-Misa, W. breakwater.	33° 16.8′ N 131° 40.6′ E	**Fl.(2)R.** period 6s	39 **12**	5	Red round concrete tower; 27.	
9356 *M 4947.6*	-Showa Yuka, oil terminal sea berth.	33° 16.8′ N 131° 40.3′ E	**Mo.(U)R.** period 12s	98 **30**	14	Dolphin.	Auxiliary lights Mo.(U)R. 12s shown 190 and 220 meters E. and W. respectively from main light. **Radar reflector.**
9360 *M 4947.74*	-E. breakwater.	33° 16.7′ N 131° 39.8′ E	**Fl.G.** period 3s	59 **18**	4	White round metal structure; 49.	
9364 *M 4947.7*	-Otozu, W. breakwater.	33° 16.6′ N 131° 39.6′ E	**Fl.R.** period 3s	59 **18**	7	Red round concrete structure; 52.	
9368 *M 4947.8*	Heavy oil sea berth.	33° 16.5′ N 131° 39.6′ E	**Mo.(U)W.** period 8s	25 **8**	9		Visible 159°-019° Auxiliary light Mo.(U)R. 8s. vis. 159°-019° located 60 meters SSW.
9372 *M 4948*	Oita Ko, Sin Nippon Seitetu Sea Berth.	33° 16.4′ N 131° 38.0′ E	**Mo.(U)R.** period 8s	39 **12**	9		Auxiliary lights Mo.(U)R. 8s located 140, 730, and 870 meters SW.
9376 *M 4947.9*	-Jetty.	33° 16.0′ N 131° 37.6′ E	**Dir.W.R.G.**	36 **11**	W. 11 R. 10 G. 10	Bridge tower.	F.R. 223°06′-230°06′, F.W.-235°54′, F.G.-242°54′. Center of fairway is 233°.
9380 *M 4948.4*	--E. breakwater.	33° 15.4′ N 131° 36.0′ E	**Fl.(2)G.** period 6s	46 **14**	5	White round concrete structure, square base; 31.	
9384 *M 4948.6*	Sumiyosi, W. breakwater.	33° 15.3′ N 131° 35.8′ E	**Fl.(2)R.** period 6s	42 **13**	4	Red round concrete structure; 31.	
9388 *M 4950*	Oita Ko, N. breakwater, head.	33° 15.1′ N 131° 35.2′ E	**F.Fl.G.** period 4s	43 **13**	F. 5 Fl. 9	White round concrete tower; 32.	
9392 *M 4951*	W. breakwater, head.	33° 15.1′ N 131° 35.1′ E	**F.Fl.R.** period 4s	43 **13**	F. 5 Fl. 9	Red round concrete tower; 32.	
9396 *M 4953*	Beppu Kanko Ko.	33° 18.0′ N 131° 30.4′ E	**Fl.G.** period 3s	24 **7**	5	White round concrete tower; 21.	
9400 *M 4954*	-Offing breakwater.	33° 18.0′ N 131° 30.5′ E	**Fl.R.** period 3s	52 **16**	7	Red round concrete structure; 52.	
9404 *M 4954.5*	-Offing breakwater, N. head.	33° 18.5′ N 131° 30.5′ E	**Iso.G.** period 4s	52 **16**	8	White round concrete structure; 52.	
9408 *M 4955*	-Breakwater, head.	33° 19.9′ N 131° 29.8′ E	**Fl.G.** period 3s	46 **14**	5	White tower; 33.	
9412 *M 4955.5*	Hizi Ko, E. breakwater, head.	33° 21.9′ N 131° 32.2′ E	**Oc.R.** period 8s	30 **9**	7	Red tower; 19.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			JAPAN-SETO NAIKAI-WESTERN PART (I)				
9414 *M 4955.57*	Kanuki Ko.	33° 22.4′ N 131° 38.3′ E	**Fl.R.** period 3s	30 **9**	6	Red tower; 19.	
9416 *M 4956*	Morie Ko.	33° 24.6′ N 131° 39.5′ E	**Mo.(A)R.** period 8s	36 **11**	6	STARBOARD (B) R, beacon, topmark; 30.	
9421 *M 4962*	**Usuisi Hana.**	33° 24.4′ N 131° 42.2′ E	**L.Fl.W.** period 15s	98 **30**	**16**	White concrete structure; 56.	Visible 190°-057°.
9422	Musasi, breakwater, SE. head.	33° 30.1′ N 131° 44.1′ E	**Fl.R.** period 3s	36 **11**	6	Red tower; 28.	
9424 *M 4964*	Kunisaki Ko, S. breakwater.	33° 34.0′ N 131° 44.4′ E	**Oc.G.** period 5s	33 **10**	6	White tower; 26.	
9428 *M 4965*	Kunisaki Ko, E. breakwater.	33° 34.4′ N 131° 44.3′ E	**Fl.R.** period 5s	46 **14**	12	Red round tower; 33.	
9432 *M 4966*	Tomiku Ko.	33° 36.3′ N 131° 43.2′ E	**Fl.R.** period 3s	43 **13**	12	Red round concrete tower; 31.	
9434	*Suo Nada Buoy No 4.*	33° 51.4′ N 131° 12.0′ E	**Mo.(A)W.** period 8s			SAFE WATER RW, pillar, topmark.	
	RACON		**OE(– – – •)**		5		(3cm).
9436 *M 5626*	Murotu.	33° 49.9′ N 132° 07.1′ E	**Iso.W.R.** period 6s	49 **15**	12	White tower; 43.	R. 250°-274°, W.-105°.
9440 *M 5626.2*	Murotu Ko, breakwater.	33° 50.3′ N 132° 07.0′ E	**Fl.G.** period 3s	39 **12**	5	White tower; 31.	
9444 *M 5409*	-Kaminoseki Range, front.	33° 49.8′ N 132° 06.9′ E	**F.R.**	118 **36**	6	White round concrete tower, white triangular daymark point up; 39.	
9448 *M 5409.1*	--Rear, 58 meters 154°18′ from front.	33° 49.8′ N 132° 06.9′ E	**F.R.**	138 **42**	6	White round concrete tower, white triangular daymark point down; 26.	
9452 *M 5409.4*	Kaminoseki Ko, A breakwater.	33° 49.9′ N 132° 06.7′ E	**F.Fl.R.** period 3s	36 **11**	F. 2 Fl. 5	Red tower; 28.	
9456 *M 5408*	Kame Iwa.	33° 51.7′ N 132° 04.5′ E	**Mo.(A)R.** period 8s	46 **14**	5	STARBOARD (B) R, beacon, topmark; 46.	
9460 *M 5407.4*	Siraida, breakwater, head.	33° 49.4′ N 132° 04.2′ E	**Fl.R.** period 3s	39 **12**	5	Red concrete column; 28.	
9464 *M 5407*	Suo Ikada Se.	33° 51.9′ N 132° 03.4′ E	**Mo.(A)G.** period 8s	46 **14**	5	PORT (B) G, beacon, topmark; 31.	
9468 *M 5408.5*	Hiraosaga Ko.	33° 53.5′ N 132° 04.7′ E	**Fl.(2)R.** period 5s	39 **12**	3	Red tower; 32.	
9472 *M 5406.5*	Maru Iwa.	33° 54.1′ N 132° 02.1′ E	**Mo.(A)R.** period 8s	36 **11**	5	STARBOARD (B) R, beacon, topmark; 30.	
9474 *M 5406.55*	Hirao Ko, breakwater, head.	33° 54.6′ N 132° 02.9′ E	**Fl.R.** period 3s	26 **8**	4	Red tower; 19.	
9476 *M 5406.7*	Suo Usi Sima.	33° 52.3′ N 132° 01.0′ E	**Mo.(A)R.** period 8s	33 **10**	5	STARBOARD (B) R, beacon, topmark; 26.	
9480 *M 5406.8*	Usisima Ko, breakwater.	33° 51.6′ N 132° 00.5′ E	**Fl.(2)R.** period 6s	39 **12**	3	Red tower; 26.	
9484 *M 5406*	Murozumi Ko.	33° 55.3′ N 131° 58.6′ E	**Iso.W.** period 6s	39 **12**	11	White round concrete tower; 30.	
9486 *M 5406.2*	-Breakwater, W. head.	33° 55.4′ N 131° 58.6′ E	**Fl.R.** period 3s	30 **9**	6	Red tower; 19.	
9488 *M 5405*	Ominase Sima.	33° 56.1′ N 131° 55.9′ E	**Fl.W.** period 3s	39 **12**	8	White round concrete tower; 32.	
9492 *M 5405.4*	Hikari Ko, S. breakwater.	33° 56.9′ N 131° 56.9′ E	**Iso.G.** period 6s	39 **12**	5	White round concrete structure; 31.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			JAPAN-SETO NAIKAI-WESTERN PART (I)				
9494 *M 5405.2*	Shimada Quay, breakwater.	33° 57.1′ N 131° 55.5′ E	**F.Fl.G.** period 3s	39 **12**	F. 5 Fl. 11	White concrete structure; 31.	
9496 *M 5404.5*	**Sekiyu Seisei.**	33° 58.7′ N 131° 53.2′ E	**Mo.(U)W.** period 15s	108 **33**	**16**	Sea berth.	Mo.(U)W. 15s 10m 10M 210 meters E. and 220 meters WNW.
9500 *M 5404.7*	Kudamatsu, public wharf, breakwater.	34° 00.2′ N 131° 51.7′ E	**Oc.G.** period 4s lt. 3s, ec. 1s	43 **13**	12	White round concrete tower; 31.	Bridge 0.9 mile S. marked by F.W., F.R., and F.G. lights.
9504 *M 5404.8*	Tokuyama Gyoko, W. breakwater.	34° 00.2′ N 131° 50.2′ E	**Iso.G.** period 4s	39 **12**	11	White round metal structure; 31.	
9508 *M 5404.4*	Hiburi Saki.	33° 55.8′ N 131° 49.1′ E	**Fl.W.** period 4s	121 **37**	12	White round concrete tower; 25.	
9512 *M 5398.5*	**No Sima.**	33° 56.2′ N 131° 41.7′ E	**Iso.W.** period 6s	285 **87**	**22**	White quadrangular concrete tower; 62.	F.W. illuminates beacon on Omo Se.
	RACON		**(– – – – – – –)**		9		Azimuth coverage 224°-206°. (3cm).
9512.3 *M 5397.5*	-Omo Ze.	33° 55.6′ N 131° 41.2′ E	**Fl.(2)W.** period 5s	30 **9**	5	ISOLATED DANGER BRB, beacon, topmark; 26.	
9516 *M 5399*	Nosima Ko, W. breakwater.	33° 56.8′ N 131° 41.5′ E	**Iso.R.** period 6s	40 **12**	11	Red round concrete structure, quadrangular base; 28.	
9520 *M 5400*	Iwa Sima, Tokuyama Wan, entrance.	33° 59.0′ N 131° 45.2′ E	**Fl.(3)W.** period 12s	75 **23**	12	White round stone tower; 31.	
	TOKUYAMA WAN:						
9524 *M 5400.5*	-Nishiga Mori, on pier.	33° 59.2′ N 131° 46.7′ E	**F.R.**	30 **9**	3	Framework tower, red metal pole; 18.	
9528 *M 5400.4*	-Kudamatu Ko, oil terminal jetty No 6.	33° 59.9′ N 131° 47.1′ E	**Mo.(U)R.** period 8s	31 **9**	8		
9532 *M 5400.3*	--No 7.	33° 59.8′ N 131° 47.0′ E	**Mo.(U)R.** period 13s	89 **27**	8		F.R. 9m 4M 170 meters NE. and 180 meters SW.
9536 *M 5404*	-Tikko, breakwater.	34° 03.0′ N 131° 47.8′ E	**Iso.G.** period 4s	43 **13**	12	White round concrete structure; 36.	
9544 *M 5401.6*	-Oki-no-Ikada.	34° 02.9′ N 131° 47.0′ E	**Fl.W.** period 4s	36 **11**	11	White round concrete tower; 26.	
9548 *M 5402.5*	-Soda Nanyo Range, front.	34° 03.5′ N 131° 46.9′ E	**F.R.**	20 **6**	6	White round metal structure, triangular daymark point up; 20.	
9552 *M 5402.51*	--Rear, 245 meters 004°42′ from front.	34° 03.7′ N 131° 46.9′ E	**F.R.**	33 **10**	6	White round metal structure, triangular daymark point down; 19.	
9556 *M 5401*	-Toyosoda, W.	34° 03.4′ N 131° 45.8′ E	**F.G.**	33 **10**	5	White triangular metal framework tower; 17.	
9568 *M 5400.8*	-Soda No 4 Range, front.	34° 03.4′ N 131° 45.6′ E	**F.Y.**	56 **17**	9	Metal framework structure, white triangular daymark point up ; 49.	
9572 *M 5400.81*	--Rear, 40 meters 311°36′ from front.	34° 03.4′ N 131° 45.6′ E	**F.Y.**	62 **19**	9	White triangular daymark, point down; 54.	
9574 *M 5397*	-Otusima Ko, breakwater.	34° 00.5′ N 131° 42.2′ E	**Iso.R.** period 6s	29 **9**	7	Red concrete structure; 18.	
9577 *M 5396*	Mitaziri Nakanoseki Ko.	34° 00.9′ N 131° 36.7′ E	**Fl.R.** period 3s	46 **14**	12	Red tower; 31.	
9580 *M 5394.5*	Muko Sima, breakwater, head.	34° 01.5′ N 131° 35.2′ E	**F.Fl.G.** period 5s	46 **14**	F. 5 Fl. 12	White round concrete tower; 32.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			JAPAN-SETO NAIKAI-WESTERN PART (I)				
9584 *M 5394*	Nakanoseki.	34° 00.0′ N 131° 32.6′ E	**Fl.W.** period 4s	217 **66**	5	White square concrete tower; 36.	
9588 *M 5393*	Hofu AVIATION LIGHT.	34° 01.3′ N 131° 31.9′ E	**Al.Fl.W.G.** period 10s	777 **237**		Metal framework tower; 49.	
9592 *M 5392*	Nisiura Ko, breakwater, head.	34° 00.7′ N 131° 30.5′ E	**Fl.(2)R.** period 7s	43 **13**	12	Red round concrete structure; 31.	
9596 *M 5391.4*	Aio Gyoko, Fishery harbor, Omi breakwater.	34° 01.8′ N 131° 28.1′ E	**Fl.G.** period 3s	43 **13**	3	White round concrete structure; 26.	
9604 *M 5390.6*	Sabasima.	33° 58.0′ N 131° 30.6′ E	**Fl.W.** period 3s	154 **47**	12	White quadrangular concrete structure; 43.	
9608 *M 5390*	**Kusayama Saki.**	33° 59.1′ N 131° 26.4′ E	**Iso.W.** period 6s	420 **128**	**22**	White round concrete tower; 39.	Spotlight.
9612 *M 5390.4*	Aio Ko, S. breakwater, head.	33° 59.8′ N 131° 25.5′ E	**F.Fl.R.** period 4s	33 **10**	F. 5 Fl. 11	Red round concrete structure; 26.	
9616 *M 5390.45*	-Ura, breakwater, head.	34° 00.5′ N 131° 25.6′ E	**Iso.R.** period 4s	39 **12**	11	Red round concrete structure; 28.	
9620	Iwayano Hana.	33° 59.1′ N 131° 23.8′ E	**F.W.**	73 **22**		White round concrete tower; 20.	
9624 *M 5389*	Ta teisi.	33° 59.2′ N 131° 22.8′ E	**Fl.W.** period 4s	39 **12**	11	White round concrete structure; 26.	
9628 *M 5388*	Maruo Ko, breakwater, head.	33° 58.2′ N 131° 21.4′ E	**Iso.G.** period 8s	29 **9**	10	White round concrete tower; 21.	
9632 *M 5387.5*	Tokonami Ko, breakwater.	33° 56.9′ N 131° 18.5′ E	**Iso.R.** period 4s	39 **12**	11	Red round concrete tower; 29.	
9636 *M 5386*	Kamega Se.	33° 54.9′ N 131° 17.1′ E	**Fl.W.** period 4s	39 **12**	11	White tower; 46.	
9640 *M 5382*	Ubemisaki Ko, fishing harbor, W. breakwater.	33° 55.4′ N 131° 15.7′ E	**F.Fl.G.** period 5s	39 **12**	F. 5 Fl. 11	White round concrete structure, square base; 28.	
9648 *M 5387*	Motoyama.	33° 52.9′ N 131° 15.0′ E	**Fl.W.** period 3s	49 **15**	12	Black concrete tower, white bands; 49.	
	UBE KO:						
9652 *M 5387.3*	*-Seibu Sekiyu Seaberth.*	33° 49.8′ N 131° 12.8′ E	**Mo.(U)W.** period 8s		9	Red and white striped mooring buoy.	**Horn:** 1 bl. ev. 30s (bl. 5s, si. 25s). **Radar reflector.**
9656 *M 5380*	-E. Range, front.	33° 56.2′ N 131° 15.2′ E	**F.R.**	43 **13**	10	White round concrete tower; 39.	
9660 *M 5380.1*	--Rear, 240 meters 58°12′ from front.	33° 56.2′ N 131° 15.3′ E	**F.R.**	62 **19**	10	White round concrete tower; 52.	
9664 *M 5376*	-W. breakwater.	33° 56.3′ N 131° 13.9′ E	**Iso.G.** period 6s	39 **12**	5	White round concrete structure; 30.	
9668 *M 5372*	Onoda Ko, N. breakwater, head.	33° 58.4′ N 131° 09.9′ E	**Fl.(2)G.** period 6s	36 **11**	11	White tower; 28.	
9672 *M 5366*	Ozuki AVIATION LIGHT.	34° 03.0′ N 131° 03.5′ E	**Al.Fl.G.W.** period 10s	246 **75**		Metal framework tower; 49.	
9676 *M 4968*	**Hime Sima.**	33° 43.8′ N 131° 42.0′ E	**Fl.(4)W.** period 30s	187 **57**	**20**	White tower; 40.	Visible 116°-064°.
	RACON		**(– – – – – – –)**		9		
9678	-Higasiura Ko.	33° 44.3′ N 131° 41.0′ E	**Fl.G.** period 3s	29 **9**	3	White tower; 16.	
9680 *M 4968.4*	Kitaura Ko, S. breakwater.	33° 43.9′ N 131° 38.9′ E	**Fl.(2)R.** period 6s	39 **12**	3	Red round concrete tower; 31.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			JAPAN-SETO NAIKAI-WESTERN PART (I)				
9684 *M 4968.6*	Himesima Ko, E. breakwater.	33° 43.1′ N 131° 38.9′ E	**F.Fl.R.** period 3s	43 **13**	F. 6 Fl. 12	Red round concrete tower, quadrangular base; 32.	
9688 *M 4969*	Imi Ko, N. breakwater.	33° 41.3′ N 131° 36.1′ E	**F.Fl.R.** period 5s	43 **13**	F. 6 Fl. 12	Red round concrete tower; 28.	
9692 *M 4972*	Taketazu Ko, N. breakwater.	33° 40.7′ N 131° 34.1′ E	**Iso.R.** period 6s	39 **12**	11	Red round concrete tower; 28.	
9696 *M 4971*	Biwa Saki.	33° 41.1′ N 131° 33.6′ E	**Fl.W.** period 3s	164 **50**	7	White round concrete tower; 32.	
9700 *M 4974*	Kakaji.	33° 41.0′ N 131° 31.4′ E	**Iso.W.** period 8s	79 **24**	5	White round concrete tower; 25.	
9704 *M 4974.2*	Kakazi Ko, N. breakwater.	33° 40.6′ N 131° 31.4′ E	**F.Fl.R.** period 6s	36 **11**	F. 6 Fl. 11	Red round concrete tower; 28.	
9708 *M 4974.6*	Bungo Takada Ko, training wall.	33° 35.7′ N 131° 25.4′ E	**Fl.(2)R.** period 8s 2 fl. 3s, ec. 5s	36 **11**	4	Red round concrete tower; 28.	
9712 *M 4975*	Buzen Nagasu Ko, training wall.	33° 34.7′ N 131° 22.3′ E	**Iso.W.** period 8s	36 **11**	11	White round structure, square base; 26.	
9714 *M 4975.5*	Buzen Imazu Ko.	33° 35.2′ N 131° 16.2′ E	**Iso.R.** period 4s	39 **12**	11	Red tower; 28.	
9716 *M 4976.2*	Imazu.	33° 36.1′ N 131° 16.6′ E	**Fl.(2)W.** period 5s	43 **13**	12	ISOLATED DANGER BRB, beacon, topmark; 46.	
9720 *M 4978*	Nakatu Ko.	33° 37.0′ N 131° 15.0′ E	**Fl.R.** period 3s	39 **12**	9	Red round tower on square concrete base; 30.	
9724 *M 4978.5*	Koiwai Ko, breakwater, head.	33° 37.1′ N 131° 11.3′ E	**Fl.R.** period 5s	46 **14**	12	Red tower; 33.	
9726 *M 4977*	Nakatu Ko, W. training wall, head.	33° 38.1′ N 131° 11.5′ E	**Mo.(A)R.** period 8s	39 **12**	9	STARBOARD (B) R, beacon, topmark; 31.	
9728 *M 4977.3*	Yositomi Ko.	33° 37.4′ N 131° 11.1′ E	**Iso.G.** period 6s	32 **10**	6	White concrete structure; 22.	
9730 *M 4979*	Unosima Ko.	33° 38.0′ N 131° 07.5′ E	**Fl.(2)R.** period 8s 2 fl. 3s, ec. 5s	43 **13**	11	Red round concrete tower; 31.	
9734 *M 4976.6*	Tuiki AVIATION LIGHT.	33° 40.6′ N 131° 02.3′ E	**Al.Fl.W.G.** period 10s	125 **38**		Metal framework tower.	
9736 *M 4982.5*	-S. breakwater, S. head.	33° 47.2′ N 131° 00.5′ E	**Fl.R.** period 3s	32 **10**	4	Red tower; 19.	
9738 *M 4981*	Kando Ko, E. breakwater.	33° 47.8′ N 131° 00.8′ E	**Fl.(2)G.** period 8s	36 **11**	6	White round tower; 25.	
9742 *M 4982*	-N. breakwater.	33° 48.0′ N 131° 00.7′ E	**Fl.(2)R.** period 8s	36 **11**	11	Red round structure, square base; 28.	
9744 *M 4982.3*	-Observation tower.	33° 48.0′ N 131° 04.3′ E	**Mo.(U)W.** period 8s	33 **10**	7		Auxiliary light Mo.(U)W. 8s 8m 7M. **Radar Reflector.**
9746 *M 4983*	Kitakyushu AVIATION LIGHT.	33° 50.0′ N 130° 56.5′ E	**Al.Fl.W.G.** period 4.3s	62 **19**		Iron framework tower.	
9750 *M 4984*	Inoura Ko, breakwater.	33° 50.8′ N 130° 59.5′ E	**Fl.(2)G.** period 8s	43 **13**	8	White tower; 32.	
9754 *M 4985*	Sinmozi, breakwater.	33° 52.4′ N 131° 00.6′ E	**Fl.G.** period 5s	59 **18**	10	White tower; 53.	
9756 *M 4985.5*	-W. breakwater.	33° 52.5′ N 131° 00.2′ E	**Fl.R.** period 5s	46 **14**	7	Red tower; 31.	
9758 *M 4986*	Hisyakuda Ko, breakwater.	33° 54.1′ N 130° 59.9′ E	**Fl.(2)R.** period 8s	39 **12**	5	Red tower; 28.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			JAPAN-SETO NAIKAI-WESTERN PART (II)				
9762 *M 5360*	Manzyu Sima.	33° 59.7′ N 131° 01.6′ E	**Fl.W.** period 4s	52 **16**	13	White round concrete structure; 52.	Visible 245°-092°.
9766 *M 5312*	**He Saki.**	33° 57.6′ N 131° 01.4′ E	**F.Fl.W.** period 15s	128 **39**	**17**	White round granite tower; 33.	
9770 *M 5358*	Tyohu.	33° 59.7′ N 130° 59.8′ E	**Iso.G.** period 6s	39 **12**	3	White tower; 28.	
9774 *M 5355*	Moji Saki.	33° 57.7′ N 130° 57.8′ E	**Iso.W.** period 6s	33 **10**	5	White tower; 24.	Visible 029°-268°. Two F.R. lights are shown from outer corners of pier head at Moji Ko.
9778 *M 5356*	Simonoseki Range, front.	33° 57.7′ N 130° 57.2′ E	**F.Y.**	43 **13**	13	White round metal tower, masonry base; 39.	
9782 *M 5356.1*	--Rear, 163 meters 240°06′ from front.	33° 57.7′ N 130° 57.1′ E	**F.Y.**	69 **21**	13	White metal framework tower, diamond daymark; 17.	
9786 *M 5353*	Sotohama, breakwater.	33° 57.3′ N 130° 56.7′ E	**Fl.R.** period 4s	26 **8**	4	Red square metal framework tower; 18.	
9788 *M 5352*	Kannonzaki.	33° 57.3′ N 130° 56.7′ E	**Fl.G.** period 4s	27 **8**	7	White tower; 20.	
9790 *M 5354*	Mozi No 2 basin, breakwater.	33° 57.3′ N 130° 57.7′ E	**Fl.G.** period 3s	33 **10**	3	White concrete tower; 30.	
9792 *M 5355.2*	-No 1 basin, breakwater.	33° 56.8′ N 130° 57.6′ E	**Iso.R.** period 6s	24 **7**	7	Red tower; 23.	
9794 *M 5351*	-Simonoseki ku on Hananotyo Wharf, breakwater.	33° 56.9′ N 130° 56.0′ E	**Fl.R.** period 5s	32 **10**	3	Red round concrete structure; 28.	
9799	Hiko Sima Range, front.	33° 55.9′ N 130° 55.6′ E	**F.Y.**	89 **27**	13	White tower; 85.	
9799.5	-Rear, 90 meters 220° from front.	33° 55.9′ N 130° 55.5′ E	**F.Y.**	115 **35**	13	White tower; 46.	
9804 *M 5340.6*	Oseto No 3 Range, front.	33° 54.9′ N 130° 56.3′ E	**F.Y.**	85 **26**	13	White round concrete tower, triangular daymark point up; 61.	
9808 *M 5340.61*	-Rear, 340 meters 059° from front.	33° 55.0′ N 130° 56.5′ E	**F.Y.**	138 **42**	13	White round concrete tower, triangular daymark point down; 42.	
9816 *M 5347*	Mozi Dairi, breakwater.	33° 54.6′ N 130° 56.0′ E	**Fl.(2)R.** period 6s	39 **12**	5	Red round concrete tower; 31.	
9820 *M 5340.3*	No 2 Range, front.	33° 53.9′ N 130° 55.2′ E	**F.Y.**	66 **20**	13	White round concrete tower, triangular daymark point up; 60.	
9824 *M 5340.31*	-Rear, 140 meters 112° from front.	33° 53.9′ N 130° 55.3′ E	**F.Y.**	98 **30**	13	White round concrete tower, triangular daymark point down; 92.	
9836 *M 5340*	No 1 Range, front.	33° 53.5′ N 130° 54.7′ E	**F.Y.**	131 **40**	**17**	White round concrete tower, triangular daymark point up; 59.	
9840 *M 5340.1*	-Rear, 260 meters 141° from front.	33° 53.4′ N 130° 54.8′ E	**F.Y.**	259 **79**	**20**	White round metal tower, triangular daymark point up; 38.	
9844 *M 5345*	Sunatu, breakwater.	33° 53.6′ N 130° 56.6′ E	**Fl.R.** period 5s	39 **12**	5	Red round concrete tower, square base; 36.	
9848 *M 5344*	Sunatu Fairway Range, front.	33° 53.5′ N 130° 53.7′ E	**F.G.**	30 **9**	10	White round concrete structure, triangular daymark point up; 28.	
9852 *M 5344.1*	-Rear, 780 meters 232°12′ from front.	33° 53.3′ N 130° 53.3′ E	**F.G.**	46 **14**	12	White round concrete structure, triangular daymark point up; 42.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
9860 *M 5339*	Simonoseki, basin, breakwater.	33° 55.2′ N 130° 54.0′ E	**Fl.(2)G.** period 8s	33 **10**	3	White tower; 28.	
9864 *M 5338.4*	Arata, breakwater, head.	33° 55.5′ N 130° 53.8′ E	**Oc.G.** period 4s	43 **13**	12	White round concrete structure; 32.	
9868 *M 5343.7*	Kokura, detached breakwater.	33° 54.4′ N 130° 53.2′ E	**Iso.R.** period 4s	36 **11**	5	Red round concrete tower; 31.	
9872 *M 5343*	Hiagari, No 1 breakwater.	33° 54.6′ N 130° 52.8′ E	**Fl.(2)R.** period 6s	39 **12**	5	Red tower; 31.	
9876 *M 5343.4*	--No 2 breakwater.	33° 54.7′ N 130° 52.7′ E	**Fl.R.** period 4s	40 **12**	5	Red tower; 31.	
9880 *M 5302*	Sakai Kawa Mouth Basin, breakwater.	33° 54.5′ N 130° 51.2′ E	**Iso.G.** period 6s	30 **9**	6	White tower; 24.	
9888 *M 5300*	**Tobata Koro** Passage, range, front.	33° 55.1′ N 130° 51.6′ E	**F.G.**	82 **25**	**15**	White quadrangular metal framework tower, triangular daymark point up; 79.	
9892 *M 5300.1*	-Rear, 63 meters 213° from front.	33° 55.1′ N 130° 51.6′ E	**F.G.**	102 **31**	**15**	White quadrangular metal framework tower, triangular daymark point down; 98.	
9896 *M 5301*	-Seitetu Tobata Range, front.	33° 55.0′ N 130° 50.9′ E	**F.G.**	59 **18**	13	White metal post, triangular daymark point up; 52.	
9900 *M 5301.1*	--Rear, 360 meters 246°18′ from front.	33° 55.0′ N 130° 50.7′ E	**F.G.**	95 **29**	14	White metal column, triangular daymark point down; 85.	
9912 *M 5297*	-Dokai Wan Entrance, breakwater.	33° 56.5′ N 130° 51.0′ E	**Fl.R.** period 6s	39 **12**	6	Red tower; 31.	
9916	-Passage, bridge.	33° 54.2′ N 130° 49.0′ E	**F.W.**	141 **43**	11		F.R. and F.G. lights mark either end of bridge.
9924.5 *M 5335.2*	-Outer breakwater, E. side.	33° 57.3′ N 130° 53.0′ E	**Fl.R.** period 3s	30 **9**	6		
9928 *M 5335.4*	-E. breakwater, head.	33° 57.2′ N 130° 53.0′ E	**Fl.G.** period 3s	39 **12**	6	White tower; 31.	
9932 *M 5337*	Koseto Range, front.	33° 57.0′ N 130° 54.6′ E	**F.Y.**	66 **20**	13	White tower, white rectangular daymark; 29.	
9936 *M 5337.1*	-Rear, 57 meters 130° from front.	33° 57.0′ N 130° 54.6′ E	**F.Y.**	85 **26**	**15**	White tower, white rectangular daymark; 30.	
9942 *M 5334.5*	Masima Ko.	33° 57.9′ N 130° 51.2′ E	**Iso.G.** period 8s	36 **11**	4	White tower; 18.	
9944 *M 5334*	Mutsureshima.	33° 58.7′ N 130° 52.1′ E	**Fl.W.** period 3s	92 **28**	12	White round granite tower; 36.	Visible 140°-12°.
9946 *M 5334.2*	-Breakwater, head.	33° 58.5′ N 130° 52.1′ E	**Fl.R.** period 3s	23 **7**	3	Red tower; 16.	
9948 *M 5332*	Yasuoka Ko, breakwater.	34° 01.4′ N 130° 54.6′ E	**Iso.G.** period 6s	26 **8**	6	White tower; 19.	
9952 *M 5326*	Omozi Iwa.	34° 00.6′ N 130° 48.7′ E	**Fl.W.** period 3s	49 **15**	5	White tower; 49.	Visible 031°-330.
9953 *M 5327.6*	-Breakwater, head.	33° 59.8′ N 130° 48.7′ E	**Fl.G.** period 3s	30 **9**	5	White tower; 20.	
9954 *M 5327.2*	Ainosima Ko.	33° 59.5′ N 130° 49.3′ E	**Fl.R.** period 6s	33 **10**	7	Red tower; 19.	
9956 *M 5327*	Ainosima Ko, E. breakwater, head.	33° 59.2′ N 130° 49.1′ E	**Fl.(2)G.** period 6s	33 **10**	6	White tower; 27.	
9960 *M 5328*	Shira Su.	33° 59.0′ N 130° 47.5′ E	**Fl.W.** period 4s	52 **16**	7	White round metal tower, black bands, stone base; 56.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			JAPAN-SETO NAIKAI-WESTERN PART (II)				
9962 *M 5324*	**Sirasima.**	34° 01.3′ N 130° 44.3′ E	**Mo.(U)W.** period 12s	128 **39**	**15**	Oil storage seaberth.	Mo.(U)W. 12s 140 meters and 240 meters NNW., 160 meters and 260 meters SSW. **Horn:** Mo.(U) ev. 30s.
9962.2 *M 5324.4*	-S. breakwater.	34° 00.4′ N 130° 43.7′ E	**Fl.G.** period 4s	43 **13**	12	White tower; 36.	**Horn:** 1 bl. ev. 20s.
9962.4 *M 5324.5*	--Inner breakwater.	34° 00.4′ N 130° 43.7′ E	**Fl.R.** period 4s	26 **8**	9	Red mast; 16.	
9962.6 *M 5324.7*	-Outer breakwater, S. corner.	34° 00.3′ N 130° 44.0′ E	**Fl.W.** period 3s	59 **18**	10		
9962.8 *M 5324.8*	--N. corner.	34° 00.9′ N 130° 44.3′ E	**Fl.W.** period 5s	59 **18**	10		
			JAPAN-SHIKOKU				
9964 *M 5577.06*	Izarki Ko.	33° 48.1′ N 134° 40.2′ E	**Oc.R.** period 4s	40 **12**	4	Red tower; 19.	
9983 *M 5577.1*	Yuki Ko, breakwater.	33° 47.3′ N 134° 38.6′ E	**F.Fl.(2)R.** period 6s	46 **14**	F. 1 Fl. 3	Red tower; 31.	
9984 *M 5577.15*	Breakwater, head.	33° 46.7′ N 134° 36.5′ E	**Fl.R.** period 5s	52 **16**	3	Red tower; 36.	
9988 *M 5577.2*	Yuki Ko, E. breakwater.	33° 46.1′ N 134° 35.4′ E	**F.Fl.R.** period 3s	33 **10**	F. 1 Fl. 3	Red round concrete tower; 28.	
10000 *M 5578.5*	**Asebino Hana.**	33° 44.1′ N 134° 33.8′ E	**Fl.W.** period 5s	545 **166**	**19**	White tower; 39.	Visible 210°-091°.
10004 *M 5578.8*	Hiwasa Ko, N. breakwater.	33° 43.8′ N 134° 32.6′ E	**F.Fl.(2)R.** period 10s	33 **10**	F. 1 Fl. 3	Red tower; 28.	
10012 *M 5578.6*	Hiwasa Ko, offing breakwater, N. head.	33° 43.6′ N 134° 32.8′ E	**Fl.G.** period 3s	43 **13**	5	White tower; 28.	
10016 *M 5579.4*	Mugi ko.	33° 39.6′ N 134° 26.7′ E	**Fl.R.** period 3s	49 **15**	7	Red tower; 32.	
10024 *M 5579.6*	-E. breakwater.	33° 40.0′ N 134° 25.0′ E	**Iso.R.** period 6s	43 **13**	4	Red round concrete tower; 28.	
10028 *M 5579.7*	-W. breakwater.	33° 39.5′ N 134° 25.4′ E	**Iso.G.** period 6s	46 **14**	5	White tower; 31.	
10032 *M 5581*	Deba Jima.	33° 37.9′ N 134° 25.5′ E	**Fl.(2)W.** period 8s	279 **85**	7	White tower; 46.	
10036 *M 5581.1*	-E. Breakwater, N. end of island.	33° 38.2′ N 134° 25.4′ E	**Fl.G.** period 3s	33 **10**	5	White tower; 26.	
10040 *M 5581.2*	Asakawa Ko, E. breakwater.	33° 37.8′ N 134° 22.7′ E	**Fl.(2)R.** period 6s	43 **13**	5	Red round concrete tower; 33.	
10044 *M 5581.4*	Tomoura, breakwater.	33° 35.5′ N 134° 21.9′ E	**Fl.R.** period 4s	39 **12**	5	Red round concrete tower; 31.	
10048 *M 5581.6*	Shishikui Ko, S. breakwater.	33° 33.7′ N 134° 18.8′ E	**F.Fl.G.** period 5s	36 **11**	F. 1 Fl. 3	White tower; 27.	
10052 *M 5581.8*	**Awa Take-ga-Sima.**	33° 32.5′ N 134° 19.2′ E	**Fl.W.** period 8s	318 **97**	**23**	White concrete column, red bands; 43.	
10056 *M 5584*	Kannoura.	33° 32.5′ N 134° 18.1′ E	**Iso.W.** period 6s	138 **42**	5	White concrete tower; 27.	Visible 211°-031°.
10060 *M 5584.3*	-N. breakwater.	33° 32.3′ N 134° 18.5′ E	**Fl.G.** period 3s	26 **8**	3	White tower; 16.	
10064 *M 5585*	-Hasu Bae.	33° 32.3′ N 134° 18.4′ E	**Fl.R.** period 5s	59 **18**	3	Red tower; 49.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			JAPAN-SHIKOKU				
10065 *M 5585.3*	None Ko.	33° 29.8′ N 134° 16.4′ E	**Fl.G.** period 3s	43 **13**	3	White tower; 23.	
10066 *M 5585.65*	Sakihama.	33° 23.5′ N 134° 12.9′ E	**Fl.G.** period 3s	49 **15**	5	White tower; 32.	
10068 *M 5585.5*	Sakihama Range, front.	33° 23.5′ N 134° 12.7′ E	**Oc.R.** period 8s lt. 6s, ec. 2s	49 **15**	9	White tower; 46.	
10072 *M 5585.6*	-Rear, 40 meters 237°36′ from front.	33° 23.5′ N 134° 12.6′ E	**Oc.W.** period 8s lt. 6s, ec. 2s	85 **26**	12	White round concrete tower; 23.	
10076 *M 5585.8*	Mitu Ko, N. breakwater.	33° 17.6′ N 134° 11.3′ E	**Fl.R.** period 6s	43 **13**	3	Red tower; 36.	
10080 *M 5585.7*	Shiina Ko, E. breakwater.	33° 19.7′ N 134° 12.0′ E	**Iso.R.** period 6s	49 **15**	4	Red tower; 36.	
10084 *M 5586*	**Muroto Zaki.**	33° 14.8′ N 134° 10.5′ E	**Fl.W.** period 10s	509 **155**	**26**	White round metal tower; 50.	**DGPS Station** 741 meters N.
	RAMARK				**22**		
	MUROTOMISAKI KO:						
10092 *M 5587.2*	-W. breakwater extension.	33° 15.6′ N 134° 09.9′ E	**F.Fl.R.** period 4s	56 **17**	F. 1 Fl. 3	Red round concrete tower; 43.	
10096 *M 5587.3*	-S. breakwater.	33° 15.6′ N 134° 09.8′ E	**Fl.G.** period 3s	56 **17**	5	White tower; 46.	
10098 *M 5587.4*	-Breakwater, head.	33° 15.7′ N 134° 09.6′ E	**Fl.R.** period 3s	66 **20**	5	Red tower; 52.	
	TOSA WAN MUROTSU KO:						
10100 *M 5589*	-S. breakwater.	33° 17.2′ N 134° 08.7′ E	**Fl.(2)R.** period 6s	62 **19**	4	Red tower; 56.	
10104 *M 5590*	-N. jetty, S. head.	33° 17.1′ N 134° 08.6′ E	**Iso.G.** period 6s	36 **11**	4	White tower; 28.	
10108 *M 5591*	Hana Saki.	33° 22.3′ N 134° 02.3′ E	**Fl.(2)W.** period 20s	256 **78**	12	White square concrete tower; 36.	Visible 323°-171°.
10112 *M 5592.2*	Nahari Ko, breakwater, head.	33° 25.2′ N 134° 00.8′ E	**Fl.R.** period 3s	46 **14**	5	Red round concrete tower; 36.	
10116 *M 5592.3*	Nahari Ko.	33° 25.0′ N 134° 01.0′ E	**Fl.G.** period 3s	39 **12**	3	White tower; 31.	
10118 *M 5592.4*	--	33° 24.9′ N 134° 00.9′ E	**Fl.(2)R.** period 6s	52 **16**	5	Red tower; 28.	
10120 *M 5592.5*	To-No Hama.	33° 26.5′ N 133° 57.8′ E	**F.W.**	69 **21**		White tower; 49.	Illuminates reef 450 meters SW.
10124 *M 5592.55*	Yasuda Ko.	33° 26.7′ N 133° 57.3′ E	**Fl.R.** period 5s	49 **15**	3	Red tower; 31.	F.W. floodlight 120 meters WNW.
10128 *M 5592.6*	Aki Ko, E. breakwater.	33° 29.9′ N 133° 53.4′ E	**Iso.R.** period 4s	49 **15**	4	Red tower; 32.	
10132 *M 5592.8*	Sumiyosi Ko, E. breakwater.	33° 30.9′ N 133° 46.0′ E	**Fl.R.** period 3s	49 **15**	5	Red round concrete tower; 31.	
10136 *M 5593*	Tei Saki.	33° 31.3′ N 133° 45.4′ E	**Fl.W.** period 3s	95 **29**	7	White round concrete tower; 36.	
10140 *M 5593.2*	Tei Ko, breakwater.	33° 31.7′ N 133° 45.1′ E	**Fl.(2)R.** period 6s	49 **15**	4	Red tower; 28.	
10142 *M 5593.3*	Akaoka Ko, breakwater.	33° 32.1′ N 133° 43.4′ E	**Fl.(2)G.** period 6s	49 **15**	3	White tower; 30.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			JAPAN-SHIKOKU				
10144 *M 5593.4*	Kochi (Koti).	33° 32.1′ N 133° 41.8′ E	**Fl.R.** period 3s	52 **16**	3	Red tower; 32.	
10148 *M 5593.5*	Kochi (Koti) AVIATION LIGHT.	33° 32.9′ N 133° 40.6′ E	**Al.Fl.W.G.** period 4.3s	72 **22**	W. 3 G. 1	Metal framework tower.	
	KOCHI KO:						
10152 *M 5594*	**-Ryuzu Saki.**	33° 29.8′ N 133° 34.4′ E	**Fl.W.** period 5s	177 **54**	**19**	White round concrete tower; 49.	Visible 222°30′-063°.
10156 *M 5595*	-Breakwater, S. side of harbor entrance.	33° 30.1′ N 133° 35.0′ E	**Iso.G.** period 6s	52 **16**	5	White square metal framework tower; 36.	
10160 *M 5594.8*	-Tanezaki, breakwater.	33° 30.3′ N 133° 34.5′ E	**Iso.R.** period 6s	43 **13**	4	Red round concrete tower; 33.	
10188 *M 5596.3*	Shirono Hana.	33° 25.8′ N 133° 27.8′ E	**Iso.W.** period 6s	197 **60**	8	White tower; 25.	
10190 *M 5596.25*	Usa Ko.	33° 26.7′ N 133° 27.5′ E	**Fl.(2)R.** period 6s	43 **13**	5	Red tower; 31.	
10192 *M 5596.2*	Usa Ko, training wall, 2.2 km. 323° from Shirano Hana.	33° 26.8′ N 133° 26.9′ E	**Fl.G.** period 3s	36 **11**	5	White round concrete tower; 31.	
10196 *M 5596.4*	Yamazaki Hana.	33° 22.9′ N 133° 17.4′ E	**Fl.(2)W.** period 6s	223 **68**	12	White tower; 36.	
10204 *M 5596.5*	Isshi Hae.	33° 19.5′ N 133° 19.0′ E	**Fl.(2)W.** period 5s	69 **21**	8	ISOLATED DANGER BRB, beacon, topmark; 69.	
10208 *M 5596.6*	Hutana Shima.	33° 19.7′ N 133° 14.9′ E	**Fl.(2)W.** period 7s	115 **35**	10	White round concrete tower; 31.	F.W. illuminates rocks 130 meters SSE.
10210 *M 5596.7*	Kure Ko, breakwater, head.	33° 19.6′ N 133° 14.1′ E	**Fl.R.** period 3s	42 **13**	5	Red tower; 33.	
10212 *M 5597*	Kaminokae Ko, E. entrance, breakwater, head.	33° 16.8′ N 133° 14.9′ E	**Fl.G.** period 3s	39 **12**	5	White tower; 27.	
10216 *M 5598.1*	Urabun Ko, breakwater.	33° 09.6′ N 133° 13.2′ E	**Fl.R.** period 5s	43 **13**	4	Red tower; 32.	
10220 *M 5598.15*	Okitu Saki, WNW.	33° 09.7′ N 133° 12.3′ E	**F.Fl.R.** period 3s	46 **14**	F. 1 Fl. 3	Red tower; 33.	
10224 *M 5598*	**Okitsu Saki.**	33° 09.3′ N 133° 13.1′ E	**Fl.W.** period 10s	617 **188**	**20**	White concrete tower; 46.	Visible 204°-043°.
10228 *M 5598.3*	Saga, Ko Groin.	33° 04.5′ N 133° 07.2′ E	**Fl.(2)G.** period 6s	66 **20**	7	White tower; 39.	
10234 *M 5598.25*	-S.	33° 04.1′ N 133° 06.8′ E	**Fl.G.** period 3s	62 **19**	5	White tower; 43.	
10244 *M 5599.4*	Tanoura Ko.	32° 59.9′ N 133° 00.5′ E	**Fl.(3)W.** period 13s	52 **16**	13	White round tower; 31.	
10246 *M 5599.6*	-Tanoura.	32° 59.7′ N 133° 00.6′ E	**Fl.(2)G.** period 6s	59 **18**	4	White tower; 30.	
10248 *M 5599.3*	-Nakamura.	33° 00.6′ N 133° 00.7′ E	**Fl.G.** period 3s	49 **15**	5	White tower; 31.	F.W. spotlight marks shoal 110 meters SSE.
10252 *M 5598.5*	Inomino Misaki.	33° 01.5′ N 133° 05.7′ E	**Fl.(2)W.** period 8s	144 **44**	7	White round concrete tower; 36.	
10256 *M 5598.7*	Ida Ko, breakwater.	33° 02.1′ N 133° 04.4′ E	**Fl.G.** period 4s	36 **11**	7	White round concrete structure; 31.	F.W. illuminates Oki no Hiraso about 140 meters SW.
10258 *M 5600.2*	Tosa Shimoda Ko.	32° 56.0′ N 132° 59.3′ E	**Fl.R.** period 3s	28 **9**	3	Red tower; 18.	
10260 *M 5600*	Nishi Michi Saki.	32° 55.8′ N 133° 00.0′ E	**Fl.W.** period 4s	131 **40**	12	White tower; 43.	F.W. illuminates head of training wall 202 meters N.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			JAPAN-SHIKOKU				
10264 *M 5601*	Nuno Zaki.	32° 51.8′ N 133° 59.6′ E	**Fl.W.** period 5s	190 **58**	7	White tower; 33.	
10266 *M 5601.3*	Simonokae Ko.	32° 51.7′ N 132° 57.8′ E	**Fl.G.** period 3s	46 **14**	3	White tower; 33.	
10270 *M 5601.9*	Iburi Ko.	32° 48.1′ N 132° 58.0′ E	**Fl.(2)G.** period 6s	49 **15**	5	White tower; 33.	
10272 *M 5601.8*	Iburi Ko, breakwater.	32° 48.1′ N 132° 58.0′ E	**Fl.G.** period 5s	46 **14**	3	White tower; 31.	
10273 *M 5601.7*	Kubotu Ko.	32° 47.4′ N 133° 59.9′ E	**Fl.G.** period 3s	46 **14**	5	White tower; 36.	
10276 *M 5601.6*	**Kubotsu Zaki.**	32° 47.2′ N 133° 00.1′ E	**Fl.W.** period 15s	167 **51**	**21**	White tower; 36.	Visible 118°-329°. Auxiliary light illuminates Yusuga Bae about 440 meters ENE.
10284 *M 5602*	**Ashizuri Zaki.**	32° 43.6′ N 133° 01.2′ E	**Fl.(3)W.** period 30s	200 **61**	**20**	White tower; 59.	Visible 201°-091°. Auxiliary light illuminates Kogane Bae about 410 meters S.
	RAMARK				**22**		
10286 *M 5602.4*	Asizuri Misaki, on point.	32° 43.4′ N 133° 00.6′ E	**F.Fl.R.** period 3s	52 **16**	F. 2 Fl. 5	Red tower; 31.	
10288 *M 5603*	Usu-bae Saki.	32° 43.9′ N 132° 57.9′ E	**Fl.(2)W.** period 10s	167 **51**	12	White tower; 31.	An auxiliary F.W. illuminates the rock about 210 meters SSW.
10292 *M 5607.3*	Asizuri Ko, W. breakwater.	32° 46.7′ N 132° 56.1′ E	**Iso.G.** period 6s	52 **16**	4	White tower; 36.	
10296 *M 5604*	Tosa Shimizu.	32° 46.0′ N 132° 56.9′ E	**Fl.W.R.** period 4s	151 **46**	13	White tower; 42.	R. 021°-084°, W.-021°. F.W. illuminates shoal 850 meters SSW.
10301 *M 5607.4*	Ashizuri Ko, E. breakwater.	32° 46.5′ N 132° 56.1′ E	**Fl.R.** period 3s	56 **17**	4	Red tower; 33.	
10304 *M 5605*	-Hira Bae, breakwater, about 1061 meters 164°30′ from Maki Yama.	32° 45.9′ N 132° 57.1′ E	**Iso.R.** period 4s	43 **13**	4	Red tower; 31.	
10308 *M 5606*	-Tobi Shima, breakwater.	32° 46.2′ N 132° 57.3′ E	**Fl.G.** period 5s	43 **13**	5	White round concrete tower; 28.	
10310 *M 5607.5*	Chihiro Saki, 2.6 km NNW.	32° 47.2′ N 132° 52.1′ E	**Fl.G.** period 5s	39 **12**	3	White tower; 18.	
10312 *M 5608*	Kano (Kanai) Saki.	32° 44.9′ N 132° 48.2′ E	**Fl.W.** period 5s	131 **40**	12	White octagonal tower; 27.	Visible 216°-098°.
10316 *M 5608.4*	Kosaitsuno Ko, breakwater.	32° 45.3′ N 132° 47.1′ E	**Iso.G.** period 4s	56 **17**	4	White tower; 32.	
10320 *M 5608.7*	Komame Saki.	32° 47.1′ N 132° 41.8′ E	**Fl.W.** period 4s	298 **91**	5	White tower; 39.	
10324 *M 5610.12*	Okino Shima, N. point.	32° 45.3′ N 132° 32.7′ E	**Fl.W.** period 3s	220 **67**	5	White tower; 33.	
10328 *M 5609.7*	Tosa-Moshima Ko, outer breakwater, head.	32° 44.3′ N 132° 32.8′ E	**Fl.R.** period 3s	52 **16**	3	Red tower; 31.	
10330 *M 5610.17*	Uguru Sima.	32° 48.2′ N 132° 29.9′ E	**Iso.W.** period 8s	354 **108**	5	White tower; 31.	
10332 *M 5610*	**Kushiga Hana.**	32° 42.3′ N 132° 32.6′ E	**Fl.(2)W.** period 20s	571 **174**	**21**	White square concrete tower; 49.	Visible 240°-170°30′.
10336 *M 5609.5*	Kashiwa Jima.	32° 46.1′ N 132° 37.3′ E	**Fl.(2)W.** period 10s	512 **156**	7	White round concrete tower; 39.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			JAPAN-SHIKOKU				
10340 *M 5609*	Kashiwa Jima Ko Entrance.	32° 46.4′ N 132° 37.7′ E	**Iso.R.** period 4s	46 **14**	4	Red round concrete tower; 36.	
			JAPAN-SHIKOKU AND KYUSHU				
	UWAJIMA KO:						
10344 *M 5619*	-Breakwater.	33° 13.6′ N 132° 33.0′ E	**F.Fl.G.** period 4s	26 **8**	F. 2 Fl. 5	White tower; 18.	
10348 *M 5619.2*	-W. breakwater.	33° 13.6′ N 132° 32.6′ E	**Fl.R.** period 5s	33 **10**	3	Red tower; 28.	
10352 *M 5621*	Yamashita Suido.	33° 16.5′ N 132° 28.6′ E	**Oc.R.** period 4s lt. 3s, ec. 1s	32 **10**	4	Red round concrete tower; 25.	
10356 *M 5618*	-Doga Saki.	33° 13.0′ N 132° 30.9′ E	**Fl.W.** period 4s	92 **28**	7	White round concrete tower; 25.	
10358 *M 5618.2*	Kusima Ko, breakwater.	33° 13.2′ N 132° 31.5′ E	**Fl.R.** period 3s	23 **7**	4	Red tower; 18.	
10360 *M 5616.4*	Bozu Bae.	33° 12.7′ N 132° 28.5′ E	**Mo.(A)G.** period 8s	33 **10**	3	PORT (B) G, tower, topmark; 26.	
10368 *M 5616.2*	Miti Shimi, No 1 breakwater.	33° 12.9′ N 132° 26.3′ E	**Fl.(2)R.** period 6s	26 **8**	3	Red round concrete tower; 16.	
10372 *M 5623*	Sa Shima.	33° 26.4′ N 132° 21.7′ E	**Fl.W.** period 3s	190 **58**	7	White round concrete tower; 30.	
10376 *M 5623.4*	Zeku Iwa.	33° 26.5′ N 132° 22.9′ E	**Mo.(A)R.** period 8s	43 **13**	3	STARBOARD (B) R, tower, topmark; 30.	
10378 *M 5623.5*	Yawatahama Ko, breakwater.	33° 27.4′ N 132° 24.4′ E	**Oc.G.** period 4s lt. 3s, ec. 1s	36 **11**	5	White tower; 28.	
10380 *M 5623.6*	Muronohana.	33° 28.4′ N 132° 21.2′ E	**Iso.W.** period 6s	102 **31**	5	White tower; 36.	
10384 *M 5624.5*	Mekko Hana.	33° 27.1′ N 132° 19.0′ E	**Oc.(2)W.** period 8s lt. 5s, ec. 1s lt. 1s, ec. 1s	210 **64**	12	White tower; 36.	
10388 *M 5622.7*	Ko Sima.	33° 22.6′ N 132° 22.1′ E	**Fl.W.** period 5s	39 **12**	7	White tower; 36.	
10390	Mikame Ko, jetty, head.	33° 22.2′ N 132° 24.3′ E	**Iso.G.** period 4s	27 **8**	6	White round tower; 19.	
10392 *M 5622.4*	Okuti Wan, on Island.	33° 20.7′ N 132° 22.7′ E	**Fl.(3)W.** period 14s	125 **38**	5	White tower; 28.	
10396 *M 5622.5*	-S. breakwater, head.	33° 20.4′ N 132° 22.7′ E	**Fl.G.** period 3s	40 **12**	3	White tower; 31.	
10400 *M 5622*	Osaki Hana.	33° 19.2′ N 132° 22.4′ E	**Fl.W.** period 5s	351 **107**	12	White tower; 28.	F.W. light illuminates Sanzo Baya about 830 meters SW.
10404 *M 5621.4*	Iyo Mizukoshi Shima.	33° 18.5′ N 132° 29.2′ E	**Fl.W.** period 5s	52 **16**	7	White tower; 26.	
10408 *M 5620*	Ora Saki.	33° 15.2′ N 132° 28.1′ E	**Iso.W.** period 6s	98 **30**	8	White tower; 36.	
10412 *M 5619.4*	Hikide Hana.	33° 14.7′ N 132° 31.4′ E	**Oc.W.** period 4s	49 **15**	5	White tower; 43.	
10416 *M 5616*	Hosoki Unga, N. entrance, W. side.	33° 12.2′ N 132° 24.6′ E	**Fl.R.** period 3s	36 **11**	4	Red tower; 28.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			JAPAN-SHIKOKU AND KYUSHU				
10420 *M 5614.4*	Otoshibana.	33° 11.8′ N 132° 25.2′ E	**Mo.(A)G.** period 8s	33 **10**	3	PORT (B) G, tower, topmark.	
10424 *M 5615.6*	Uwa Ka Shima.	33° 13.8′ N 132° 21.6′ E	**Iso.W.** period 6s	423 **129**	14	White tower; 32.	
10428 *M 5615*	Oko Shima.	33° 12.5′ N 132° 23.4′ E	**Fl.W.** period 3s	200 **61**	7	White tower; 28.	
10430 *M 5614.9*	To Sima.	33° 12.2′ N 132° 22.0′ E	**Fl.R.** period 3s	30 **9**	4	Red tower; 19.	
10436 *M 5614.5*	**Hiburi Shima.**	33° 10.2′ N 132° 16.0′ E	**Fl.W.** period 6s	410 **125**	**19**	White tower; 33.	
10440 *M 5614.34*	Noto Saki, on Aka Bae.	33° 09.4′ N 132° 25.4′ E	**Fl.(3)W.** period 13s	52 **16**	10	White tower, red bands; 29.	
10444 *M 5614.2*	Sho-no-Shima.	33° 07.6′ N 132° 26.5′ E	**Fl.W.** period 4s	33 **10**	5	White tower; 26.	
10448 *M 5614.3*	Iwamatsu Ko, Usashi breakwater.	33° 07.7′ N 132° 29.7′ E	**Iso.G.** period 6s	36 **11**	5	White tower; 28.	
10452 *M 5614.1*	Iyo, Takega Shima.	33° 06.4′ N 132° 24.5′ E	**Fl.(4)W.** period 16s	108 **33**	7	White tower; 26.	
10456 *M 5614*	Suge Zaki.	33° 04.3′ N 132° 24.9′ E	**Fl.(2)W.** period 8s	351 **107**	5	White round concrete tower; 43.	
10464 *M 4912*	**Mizunoko Shima.**	33° 02.7′ N 132° 10.6′ E	**Fl.W.** period 10s	184 **56**	**20**	White round stone tower, black bands; 128.	
	RACON		**(– – – – – – –)**		9		(3cm).
10465 *M 5625.6*	Sadamisaki Ko, No 1 breakwater.	33° 21.8′ N 132° 03.1′ E	**F.Fl.G.** period 6s	46 **14**	F. 2 Fl. 5	White tower; 31.	
10465.5 *M 5625.2*	-Inoura, breakwater.	33° 22.5′ N 132° 06.3′ E	**Iso.R.** period 6s	43 **13**	5	Red round concrete tower; 30.	
10466 *M 5625*	Iyo Misaki Ko, No 1 breakwater.	33° 23.3′ N 132° 07.2′ E	**F.Fl.R.** period 4s	39 **12**	F. 1 Fl. 3	Red tower; 28.	
10468 *M 5613*	Yurano Hana.	33° 01.2′ N 132° 23.0′ E	**Fl.W.** period 5s	305 **93**	8	White tower; 29.	
10472 *M 5612.5*	Funakoshi Canal, N. entrance.	33° 03.3′ N 132° 26.0′ E	**Iso.G.** period 6s	33 **10**	5	White tower; 28.	
10476 *M 5612.3*	Shiokoshima Kurobae.	33° 01.3′ N 132° 27.5′ E	**Fl.W.** period 3s	62 **19**	5	White tower; 56.	
10480 *M 5612.2*	Kogai Bae.	32° 59.6′ N 132° 30.0′ E	**Fl.(2)W.** period 8s	43 **13**	5	White round concrete tower; 36.	
10484 *M 5612.14*	Mabune.	32° 58.4′ N 132° 30.3′ E	**Iso.W.** period 6s	43 **13**	4	White tower; 33.	
10488 *M 5612.1*	Ka Shima.	32° 56.7′ N 132° 27.5′ E	**Fl.W.** period 4s	118 **36**	7	White tower; 39.	
10492 *M 5612*	Komo Saki.	32° 54.4′ N 132° 28.5′ E	**Fl.W.** period 7s	466 **142**	7	White round concrete tower; 20.	
10496 *M 5611.4*	Iyo, Fukuura Ko, breakwater.	32° 55.1′ N 132° 30.0′ E	**Fl.G.** period 3s	25 **8**	4	White tower; 18.	
10500 *M 5611.3*	-Breakwater, head.	32° 56.7′ N 132° 30.4′ E	**Fl.R.** period 3s	26 **8**	5	Red tower; 18.	
10504 *M 5611*	Tengi Hana.	32° 55.8′ N 132° 34.0′ E	**Oc.W.** period 8s lt. 6s, ec. 2s	241 **73**	12	White round concrete tower; 25.	Auxiliary light illuminates beacon on Shira Ishi, about 800 meters SE.
10508 *M 5611.2*	Iyo Fukaura Ko Ninobae Hana.	32° 56.3′ N 132° 35.2′ E	**Oc.(2)W.** period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	31 **9**	4	White tower; 30.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			JAPAN-SHIKOKU AND KYUSHU				
10512 *M 5610.5*	Ikeno Shima.	32° 55.1′ N 132° 41.3′ E	**Iso.W.** period 6s	194 **59**	8	White round concrete tower, octagonal base; 28.	
10514 *M 5610.45*	-O Sima.	32° 55.2′ N 132° 41.1′ E	**Fl.(2)R.** period 6s	39 **12**	4	Red tower; 28.	
10516 *M 5610.4*	Tosa, Nagasaka Bana.	32° 53.7′ N 132° 42.3′ E	**Fl.(3)W.** period 13s	230 **70**	12	White round concrete tower; 31.	F.W. floodlight illuminates Siro Bae 420 meters W.
10520 *M 5610.2*	Sira Saki.	32° 51.3′ N 132° 39.5′ E	**Fl.W.** period 4s	184 **56**	12	White concrete tower; 31.	F.W. floodlight marks Ko Jima 400 meters N.
10524 *M 4922*	Takago Iwa.	33° 06.8′ N 132° 01.7′ E	**Fl.W.** period 3s	62 **19**	5	White round concrete tower; 28.	
10526 *M 4923.3*	Hodosima Ko.	33° 06.6′ N 132° 00.5′ E	**Iso.G.** period 6s	30 **9**	4	White tower; 19.	
10528 *M 4923*	Hoto Shima Ko.	33° 06.2′ N 132° 00.3′ E	**Fl.G.** period 3s	30 **9**	5	White tower; 18.	
10532 *M 4924*	Hoto Shima Ko, breakwater, head.	33° 05.9′ N 132° 00.2′ E	**Iso.G.** period 6s	29 **9**	4	White tower; 19.	
10534	Tukumi Ko.	33° 04.1′ N 131° 59.3′ E	**Iso.G.** period 6s	27 **8**	6	White tower; 19.	
10535 *M 4927.5*	Youra Ko.	33° 03.8′ N 131° 58.2′ E	**Fl.R.** period 3s	28 **9**	6	Red tower; 19.	
10536 *M 4928*	Tsukumi Sirais.	33° 06.5′ N 131° 56.4′ E	**Fl.(2)W.** period 5s	39 **12**	11	ISOLATED DANGER BRB, beacon, topmark; 30.	
10538 *M 4928.5*	Akae Ko, breakwater.	33° 05.4′ N 131° 55.8′ E	**Fl.G.** period 5s	26 **8**	5	White concrete structure; 18.	
	TSUKUMI KO:						
10548 *M 4930*	-Detached breakwater.	33° 04.7′ N 131° 51.8′ E	**Fl.G.** period 3s	39 **12**	10	Green tower; 29.	
10552 *M 4929*	-Chinu Saki.	33° 05.2′ N 131° 53.0′ E	**Iso.G.** period 4s	36 **11**	11	White round concrete tower; 28.	
10556 *M 4938.3*	-Tomariganti.	33° 07.4′ N 131° 54.9′ E	**Fl.W.** period 4s	239 **73**	12	White round metal tower; 33.	
10558 *M 4939*	-Kusuya Saki.	33° 07.2′ N 131° 49.7′ E	**Fl.(2)G.** period 5s	29 **9**	5	White tower; 18.	
10560 *M 4940*	Usuki Ko, breakwater, E. head.	33° 07.8′ N 131° 48.7′ E	**Fl.R.** period 3s	26 **8**	9	Red tripod, round base; 23.	
10564 *M 4941*	-Breakwater, head.	33° 07.6′ N 131° 48.9′ E	**Oc.G.** period 8s lt. 6s, ec. 2s	39 **12**	11	White tower; 31.	
10568 *M 4943*	-Shitanoe.	33° 09.6′ N 131° 49.7′ E	**Oc.W.** period 8s lt. 6s, ec. 2s	69 **21**	14	White round concrete structure; 28.	
10570 *M 4943.5*	-Shitanoe Ko.	33° 10.6′ N 131° 50.0′ E	**Fl.G.** period 3s	25 **8**	5	White tower; 18.	
	SAIKI WAN:						
10572 *M 4916*	-Takega Shima.	32° 59.1′ N 131° 58.9′ E	**Fl.W.** period 5s	125 **38**	12	White round concrete tower, square base; 23.	
10574 *M 4921*	-Breakwater, head.	33° 02.9′ N 131° 56.1′ E	**Iso.R.** period 6s	36 **11**	11	Red tower; 28.	
10576 *M 4917*	-Motsura Ko, N. breakwater.	32° 56.9′ N 131° 57.7′ E	**F.Fl.G.** period 6s	36 **11**	F. 5 Fl. 11	White round concrete tower; 28.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			JAPAN-SHIKOKU AND KYUSHU				
10578 *M 4917.5*	-Breakwater, head.	32° 57.1′ N 131° 57.4′ E	**Fl.R.** period 3s	26 **8**	6	Red concrete tower; 19.	
10580 *M 4918*	-Todo Hana, summit off SE. point of Onyu Shima.	32° 58.8′ N 131° 55.4′ E	**Oc.W.** period 8s	75 **23**	14	White tower; 33.	
10584 *M 4920.4*	-E. Training Wall.	32° 58.5′ N 131° 54.8′ E	**Fl.R.** period 4s	36 **11**	9	Red round concrete tower; 31.	
10586 *M 4920.5*	-Breakwater, head.	32° 58.5′ N 131° 54.8′ E	**Fl.G.** period 4s	26 **8**	6	White tower; 19.	
10588 *M 4920.2*	-W. Training Wall, head.	32° 58.5′ N 131° 54.5′ E	**Fl.(2)G.** period 7s	36 **11**	5	White tower; 28.	
10592 *M 4920*	-Saeki Ko, Katsura, N. breakwater.	32° 58.6′ N 131° 54.6′ E	**Fl.(2)R.** period 7s	36 **11**	6	Red tower; 27.	
10594 *M 4913.5*	-O Sima, W. side.	32° 58.3′ N 132° 04.5′ E	**Fl.R.** period 3s	28 **9**	3	Red tower; 19.	
10596 *M 4914*	Bungo, O Shima, W. breakwater.	32° 58.1′ N 132° 04.4′ E	**Iso.G.** period 6s	29 **9**	4	White tower; 19.	
10600 *M 4913*	Sakino Se.	32° 58.2′ N 132° 06.1′ E	**Fl.(2)W.** period 6s	141 **43**	5	White tower; 24.	
10604 *M 4910*	Motonoma Kaikyo.	32° 57.0′ N 132° 04.2′ E	**Fl.(2)W.** period 5s	39 **12**	3	ISOLATED DANGER BRB, beacon, topmark; 36.	

Section 7

Kyushu

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			JAPAN-KYUSHU				
10608 *M 4909.8*	**Turumi Saki.**	32° 55.9′ N 132° 05.0′ E	**Fl.W.** period 8s	646 **197**	**23**	White round concrete tower; 46.	Visible 172°-080°.
10610 *M 4909.1*	Yonozu Hakuti.	32° 54.0′ N 131° 59.7′ E	**Fl.W.** period 4s	56 **17**	5	White tower; 30.	
10613 *M 4909.3*	-S. breakwater.	32° 53.5′ N 131° 59.2′ E	**Fl.G.** period 3s	26 **8**	4	White tower; 20.	
10614 *M 4909.4*	-Breakwater.	32° 53.6′ N 131° 59.2′ E	**Iso.R.** period 8s	26 **8**	4	Red tower; 20.	
10620 *M 4909*	Oki Kuro Sima.	32° 52.8′ N 132° 02.0′ E	**Fl.W.** period 3s	262 **80**	5	White round concrete tower; 26.	
10624 *M 4908*	Kamae Ko.	32° 47.2′ N 131° 55.8′ E	**Fl.W.** period 5s	42 **13**	5	White round concrete tower; 33.	
10628 *M 4908.4*	-Breakwater.	32° 47.6′ N 131° 55.3′ E	**Fl.R.** period 3s	23 **7**	3	Red tower; 16.	
10630 *M 4908.6*	-N. breakwater, head.	32° 51.1′ N 131° 57.1′ E	**Fl.G.** period 3s	26 **8**	3	White tower; 20.	
10632 *M 4906*	Fuka Shima.	32° 42.9′ N 131° 55.6′ E	**Fl.W.** period 3s	295 **90**	12	White round concrete tower; 32.	
10636 *M 4907*	Maruitibi Ko, breakwater.	32° 47.3′ N 131° 52.5′ E	**F.Fl.G.** period 6s	46 **14**	F. 2 Fl. 5	White round tower, square base; 30.	
10638 *M 4907.5*	Yakata Sima, breakwater.	32° 46.7′ N 131° 54.6′ E	**Fl.(2)R.** period 6s	27 **8**	6	Red tower; 20.	
10640 *M 4905.4*	Furue Ko, Miyano Ura, breakwater.	32° 41.7′ N 131° 50.1′ E	**Fl.(2)R.** period 8s	39 **12**	3	Red square concrete tower; 30.	
10644 *M 4904.6*	-Aso, breakwater.	32° 41.1′ N 131° 48.6′ E	**F.Fl.R.** period 3s	39 **12**	F. 1 Fl. 3	Red tower; 33.	
10648 *M 4904*	Shimanoura Shima.	32° 39.9′ N 131° 49.3′ E	**Fl.(2)W.** period 7s	630 **192**	13	White tower; 26.	
10650 *M 4904.2*	Gozyo Se.	32° 39.5′ N 131° 48.4′ E	**Fl.W.** period 4s	89 **27**	5	White tower; 36.	
10652 *M 4904.8*	-Kitaura Ko, approach.	32° 40.6′ N 131° 48.9′ E	**Fl.W.** period 3s	56 **17**	5	White round concrete tower; 43.	
10656 *M 4904.4*	-Shimanoura Ko, S. breakwater.	32° 40.1′ N 131° 48.4′ E	**Fl.R.** period 3s	30 **9**	3	Red round concrete tower; 16.	
10660 *M 4904.5*	--N. breakwater.	32° 40.1′ N 131° 48.6′ E	**Fl.G.** period 3s	30 **9**	3	White tower; 16.	
10668 *M 4904.9*	--Inner breakwater.	32° 42.1′ N 131° 49.3′ E	**Fl.R.** period 4s	43 **13**	3	Red tower; 26.	
10672 *M 4903.7*	Urashiro, breakwater, head.	32° 38.6′ N 131° 45.9′ E	**Fl.R.** period 4s	39 **12**	3	Red tower; 30.	
10676 *M 4903.6*	Minamiura Ko, Yasui, N. breakwater.	32° 36.6′ N 131° 45.3′ E	**Fl.G.** period 3s	46 **14**	5	White tower; 30.	
10680 *M 4903*	Simake Bae.	32° 35.6′ N 131° 46.5′ E	**Fl.(2)W.** period 5s	69 **21**	5	ISOLATED DANGER BRB, beacon, topmark; 59.	
10684 *M 4902*	Tomi, on N. side of mouth of Kita Kawa.	32° 35.5′ N 131° 43.0′ E	**Fl.W.** period 3s	33 **10**	5	White tower; 26.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			JAPAN-KYUSHU				
10688 *M 4900*	Nobeoka Shinko, N. breakwater, N. light.	32° 31.6′ N 131° 41.9′ E	**Fl.(2)G.** period 6s	59 **18**	5	White round concrete tower; 36.	
10692 *M 4900.94*	Nobeoka Sinko, N. breakwater S.	32° 31.5′ N 131° 41.6′ E	**Fl.(2)R.** period 6s	46 **14**	5	Red round concrete tower; 30.	
10696 *M 4900.7*	-Range No 2, front.	32° 30.8′ N 131° 41.3′ E	**F.R.**	49 **15**	6	White round concrete tower; 16.	
10700 *M 4900.8*	--Rear, about 60 meters 201° from front.	32° 30.6′ N 131° 40.5′ E	**F.R.**	66 **20**	6	White round concrete tower; 20.	
10704 *M 4900.2*	-Breakwater.	32° 30.6′ N 131° 41.3′ E	**Fl.R.** period 3s	39 **12**	3	Red metal framework tower; 30.	
10708 *M 4898.6*	Biro Jima.	32° 27.9′ N 131° 43.9′ E	**Fl.W.** period 3s	282 **86**	5	White concrete column; 36.	
10712 *M 4897*	Nabe Saki.	32° 28.3′ N 131° 41.7′ E	**Fl.(4)W.** period 15s	125 **38**	7	White tower; 33.	
	OZUE WAN:						
10716 *M 4898*	-Ikui Bae.	32° 27.2′ N 131° 41.8′ E	**Fl.R.** period 3s	36 **11**	5	White tower; 16.	
10720 *M 4899.7*	--Approach light.	32° 28.3′ N 131° 40.5′ E	**Fl.(2)R.** period 6s	52 **16**	3	Red tower; 36.	
10724 *M 4899*	-Kadokawa Ko, S. breakwater.	32° 28.2′ N 131° 39.7′ E	**Iso.G.** period 4s	36 **11**	4	White tower; 23.	
10736 *M 4896*	**Hososhima Ko.**	32° 25.4′ N 131° 41.1′ E	**Al.Fl.W.G.** period 10s	331 **101**	**19**	White round concrete tower; 36.	Two F.W. lights (horiz.) visible 5 miles show from head and middle of pier.
	RAMARK						
10740 *M 4898.7*	-Breakwater, N. head.	32° 27.3′ N 131° 40.4′ E	**Fl.G.** period 4s	56 **17**	5	White round tower; 36.	
10748 *M 4894*	Mimitsu Ko, Tatsugami Bae, S. head.	32° 19.4′ N 131° 37.4′ E	**Fl.W.** period 4s	75 **23**	7	White tower; 56.	
10752 *M 4893*	Tsuno Ko, S. breakwater.	32° 15.1′ N 131° 34.5′ E	**Fl.G.** period 3s	39 **12**	5	White metal framework tower; 30.	
10756 *M 4892.6*	Kawanami Ko, S. breakwater.	32° 10.1′ N 131° 33.3′ E	**Fl.(2)G.** period 6s	56 **17**	7	White tower; 30.	
10760 *M 4890*	**Tonda.**	32° 04.1′ N 131° 30.2′ E	**Fl.W.** period 15s	210 **64**	**21**	White tower; 30.	Visible 199°-019°.
10762 *M 4889.2*	Miyazaki, N. breakwater.	31° 55.1′ N 131° 28.4′ E	**Fl.(2)R.** period 6s	43 **13**	5	Red tower; 33.	
10763 *M 4889.4*	-S. breakwater.	31° 55.3′ N 131° 29.1′ E	**Fl.(2)G.** period 6s	52 **16**	7	White tower; 20.	
10764 *M 4889*	Miyazaki, AVIATION LIGHT.	31° 52.4′ N 131° 26.4′ E	**Al.Fl.W.G.** period 4.3s		W. 3 G. 1		
10768 *M 4887*	Ao Shima.	31° 48.4′ N 131° 28.8′ E	**Fl.W.** period 4s	43 **13**	5	White round concrete tower; 39.	
10772 *M 4888*	Aoshima Ko, E. breakwater.	31° 47.8′ N 131° 28.5′ E	**F.Fl.(2)G.** period 10s	43 **13**	F. 2 Fl. 5	White round concrete tower; 26.	
	UCHIUMI KO:						
10776 *M 4886*	**-Tosaki Hana.**	31° 47.1′ N 131° 29.2′ E	**Fl.W.** period 8s	299 **91**	**20**	White square concrete tower; 30.	Visible 138°-018°.
10780 *M 4883*	-Breakwater, head.	31° 45.3′ N 131° 28.5′ E	**Fl.(2)G.** period 6s	30 **9**	3	White tower; 23.	

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			JAPAN-KYUSHU				
10784 *M 4882*	-Offing breakwater.	31° 45.1′ N 131° 28.6′ E	**Fl.(2)R.** period 6s	46 **14**	4	Red tower; 30.	
10788 *M 4884*	-Range, front.	31° 45.5′ N 131° 28.2′ E	**F.Y.**	36 **11**	8	White hexagonal concrete tower, white triangular daymark point up; 33.	
10792 *M 4884.1*	--Rear, 180 meters 325° from front.	31° 45.1′ N 131° 28.4′ E	**F.Y.**	85 **26**	8	White round concrete tower, white triangular daymark point down; 16.	
10796 *M 4880*	Kinchaku Jima.	31° 44.3′ N 131° 28.4′ E	**Fl.(3)W.** period 13s	164 **50**	7	White round concrete tower; 36.	
10800 *M 4881*	Nojima Ko, breakwater, head.	31° 44.1′ N 131° 28.1′ E	**Fl.G.** period 3s	39 **12**	3	White metal framework tower; 26.	
10804 *M 4876*	Udo Saki.	31° 38.7′ N 131° 28.1′ E	**Fl.(2)W.** period 6s	148 **45**	7	White square concrete tower; 39.	
10808 *M 4870*	Hadaka Bae.	31° 33.9′ N 131° 25.0′ E	**Fl.W.** period 4s	69 **21**	5	White tower; 46.	
	ABURATSU KO:						
10820 *M 4870.5*	-E. entrance Range, front.	31° 33.6′ N 131° 23.8′ E	**F.G.**	124 **38**	10	White tower; 13.	
10824 *M 4870.51*	--Rear, 420 meters 263°30′ from front.	31° 33.5′ N 131° 23.6′ E	**F.G.**	220 **67**	10	White round concrete tower; 52.	
10828 *M 4872*	-E. breakwater, W. head.	31° 34.3′ N 131° 24.2′ E	**Fl.R.** period 4s	43 **13**	7	Red tower; 30.	
10832 *M 4873*	-W. breakwater, head.	31° 34.1′ N 131° 24.3′ E	**Fl.G.** period 4s	33 **10**	4	White tower; 26.	
10836 *M 4873.6*	-W. inner breakwater, head.	31° 33.7′ N 131° 24.1′ E	**Fl.G.** period 5s	39 **12**	3	White tower; 33.	
10840 *M 4874*	-Inner breakwater, E. head.	31° 34.7′ N 131° 24.3′ E	**Iso.G.** period 4s	32 **10**	4	White square concrete tower; 26.	F.W. 4M shown from head of wharf in inner harbor.
10844 *M 4866.8*	Odotsu Ko, detached breakwater.	31° 33.3′ N 131° 23.3′ E	**Fl.R.** period 3s	43 **13**	3	Red round concrete tower; 30.	
10848 *M 4867*	Odotsu Ko, W. groin.	31° 33.4′ N 131° 23.2′ E	**Fl.G.** period 3s	39 **12**	3	White round concrete tower; 30.	
10856 *M 4866.4*	Meitsu Ko Oki, detached breakwater, S.	31° 32.4′ N 131° 23.8′ E	**Fl.(2)R.** period 6s	36 **11**	3	Red tower; 16.	
10860 *M 4866*	Meitsu Ko, S. breakwater.	31° 32.4′ N 131° 23.9′ E	**Fl.(2)G.** period 6s	49 **15**	4	White tower; 30.	
10864 *M 4865*	Tonoura Ko, breakwater.	31° 30.8′ N 131° 22.7′ E	**F.Fl.G.** period 5s	36 **11**	F. 1 Fl. 3	White round concrete tower; 26.	
10868 *M 4864*	**Kurasaki.**	31° 30.9′ N 131° 24.9′ E	**Fl.(2)W.** period 20s	305 **93**	**21**	White twelve-sided concrete tower; 46.	Visible 187°-142°. F.W. illuminates M. Shima 0.9 mile SSE.
10872 *M 4864.4*	Hyugano Se.	31° 30.4′ N 131° 23.8′ E	**Mo.(A)G.** period 8s	73 **22**	5	PORT (B) G, beacon, topmark; 63.	
10874 *M 4861*	Miyanoura, breakwater, head.	31° 23.8′ N 131° 20.3′ E	**Fl.G.** period 4s	56 **17**	7	White tower; 28.	
10876 *M 4860*	**Toi Misaki.**	31° 22.0′ N 131° 20.7′ E	**Fl.W.** period 15s	837 **255**	**23**	White octagonal concrete tower; 49.	Visible 198°-097°. **Radiobeacon** 1241 meters NW. **DGPS Station** 1241 meters NW.
10880 *M 4860.2*	-S.	31° 21.7′ N 131° 20.2′ E	**F.W.**	312 **95**		White round concrete tower; 36.	Illuminates shallow portion of Harajiro Se about 0.46 mile SSW.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			JAPAN-KYUSHU				
10884 *M 4857.5*	Fukushima Ko, breakwater, head.	31° 26.7′ N 131° 12.3′ E	**Iso.R.** period 6s	46 **14**	5	Red tower; 30.	
10885 *M 4857*	-W. breakwater.	31° 26.8′ N 131° 11.8′ E	**Fl.(2)R.** period 6s	49 **15**	4	Red tower; 30.	
10892 *M 4858*	Bindare Jima.	31° 25.6′ N 131° 12.9′ E	**Fl.W.** period 4s	108 **33**	7	White round concrete tower; 30.	
	SHIBUSHI KO:						
10896 *M 4842*	-Breakwater.	31° 28.4′ N 131° 06.5′ E	**Fl.G.** period 5s	36 **11**	3	White round tower, square base; 30.	
10898 *M 4842.6*	-Beacon.	31° 26.9′ N 131° 05.5′ E	**Fl.G.** period 3s	49 **15**	8	White tower; 33.	
10899	Kashiwabaru, SE. breakwater.	31° 21.8′ N 131° 02.2′ E	**Fl.(2)R.** period 6s	49 **15**	5	Red concrete structure; 32.	
10899.1 *M 4841.5*	-Kimotuki Ko.	31° 21.6′ N 131° 03.0′ E	**Mo.(U)W.** period 10s	115 **35**	10		Mo.(U)W. 10s 9M 270 meters W. and 240 meters ESE. **Radar reflector.**
10900 *M 4840*	Uchinoura, S. side of Shibushi Wan, E. breakwater, head.	31° 16.8′ N 131° 05.0′ E	**Fl.G.** period 3s	49 **15**	5	White tower; 30.	
10904 *M 4839*	Hi Saki.	31° 16.9′ N 131° 07.9′ E	**Fl.(2)W.** period 6s	207 **63**	7	White tower; 36.	
10908 *M 4837*	Odomari Ko, breakwater.	31° 01.4′ N 130° 41.2′ E	**F.Fl.R.** period 5s	52 **16**	F. 2 Fl. 5	Red tower; 28.	
10912 *M 4836*	**Sata Misaki.**	30° 59.5′ N 130° 39.5′ E	**Fl.W.** period 10s	223 **68**	**21**	White octagonal concrete tower; 43.	Visible 242°-150°.
10916 *M 4835*	Tachime Saki.	31° 04.2′ N 130° 39.3′ E	**Fl.W.** period 3s	282 **86**	7	White round concrete tower; 23.	
10920 *M 4834*	Izashiki Ko, S. breakwater.	31° 05.8′ N 130° 41.5′ E	**Fl.R.** period 3s	56 **17**	5	Red round concrete tower; 30.	
	KAGOSHIMA WAN:						
10924 *M 4821.6*	-Kanoya AVIATION LIGHT.	31° 22.7′ N 130° 50.2′ E	**Al.Fl.W.G.** period 6s		W. 6 G. 3	Metal framework tower.	
10932 *M 4822*	--N. breakwater.	31° 24.1′ N 130° 45.5′ E	**Fl.G.** period 5s	23 **7**	5	White tower; 16.	
10936 *M 4824*	-Tarumisu Ko, S. breakwater.	31° 29.7′ N 130° 41.7′ E	**F.Fl.R.** period 6s	36 **11**	F. 2 Fl. 5	Red round concrete tower; 30.	
10937 *M 4824.5*	-S. harbor, S. breakwater.	31° 29.0′ N 130° 41.2′ E	**Fl.R.** period 3s	39 **12**	4	Red tower; 30.	
	-Kagoshima Ko:						
10940 *M 4826*	--Taniyama, N. breakwater, head.	31° 30.3′ N 130° 32.1′ E	**Fl.R.** period 4s	56 **17**	7	Red tower; 56.	
10944 *M 4825.5*	--Detached breakwater, S. head.	31° 29.0′ N 130° 32.4′ E	**Fl.R.** period 3s	59 **18**	7	Red round concrete tower; 52.	
10948 *M 4826.4*	--Mokuzai Ko, S. breakwater.	31° 31.8′ N 130° 33.4′ E	**Fl.(2)G.** period 6s	49 **15**	7	White tower; 36.	
10956 *M 4827.4*	--Kamoike, breakwater.	31° 33.2′ N 130° 33.8′ E	**Fl.G.** period 3s	46 **14**	7	White concrete column; 30.	
10960 *M 4825*	--Kan Se.	31° 34.0′ N 130° 35.4′ E	**Fl.W.** period 3s	62 **19**	7	White tower; 49.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			JAPAN-KYUSHU				
10964 *M 4828*	--New Harbor, S. breakwater.	31° 34.9′ N 130° 34.3′ E	**Fl.G.** period 4s	46 **14**	7	White round concrete tower; 43.	
10968 *M 4828.2*	---N. breakwater, head.	31° 35.0′ N 130° 34.2′ E	**Fl.R.** period 4s	46 **14**	7	Red tower; 43.	
10971 *M 4828.6*	--Outer middle breakwater, S. head.	31° 35.6′ N 130° 34.4′ E	**Fl.(2)R.** period 6s	43 **13**	7	Red tower; 36.	
10972 *M 4828.7*	---N. head.	31° 35.9′ N 130° 34.4′ E	**Fl.G.** period 5s	46 **14**	7	White tower; 36.	
10973 *M 4828.8*	--Outer N. breakwater, S. head.	31° 35.9′ N 130° 34.4′ E	**Fl.R.** period 5s	43 **13**	7	Red tower; 36.	
10980 *M 4831*	--N. breakwater, S. head.	31° 35.9′ N 130° 34.1′ E	**Fl.R.** period 3s	46 **14**	3	Red tower; 31.	
10981 *M 4831.7*	-Approach.	31° 35.6′ N 130° 35.8′ E	**Fl.(2)R.** period 6s	26 **8**	4	Red tower; 20.	
10992 *M 4823.3*	-Kiire Ko Oil Terminal, Sea Berth, No 1.	31° 23.9′ N 130° 33.1′ E	**Mo.(U)W.** period 8s	98 **30**	11		Mo.(U)W. 8s 230 meters NNW.
10996 *M 4823.2*	---No 2.	31° 23.8′ N 130° 33.3′ E	**Mo.(U)W.** period 8s	118 **36**	11		Mo.(U)W. 8s 210 meters NNW.
11000 *M 4823.12*	---No 3.	31° 23.6′ N 130° 33.5′ E	**Mo.(U)W.** period 8s	118 **36**	11		Mo.(U)W. 8s 270 meters NNW and 270 meters SSE.
11002 *M 4823.06*	---No 4.	31° 23.3′ N 130° 33.7′ E	**Mo.(U)W.** period 8s	138 **42**	11		Mo.(U)W. 8s 260 meters SSE.
11004 *M 4823.02*	--No 2.	31° 22.5′ N 130° 33.9′ E	**Mo.(B)Y.** period 15s	20 **6**	5	SPECIAL Y, beacon, "X" topmark; 20.	
11008 *M 4823*	--No 1.	31° 22.3′ N 130° 34.0′ E	**Mo.(B)Y.** period 15s	20 **6**	5	SPECIAL Y, beacon, "X" topmark: 20.	
11016 *M 4823.4*	--N. breakwater.	31° 23.6′ N 130° 32.4′ E	**F.R.**	22 **7**	5	Red column; 13.	
11020 *M 4823.42*	--E. breakwater.	31° 23.7′ N 130° 32.5′ E	**F.G.**	22 **7**	5	White tower; 13.	
11024 *M 4820*	-Yamakawa Ko on Uno Se.	31° 12.7′ N 130° 38.8′ E	**Fl.R.** period 3s	37 **11**	5	STARBOARD (B) R, tower, topmark; 39.	R. light located on Bando Koro Hana.
11028 *M 4820.2*	-Bandokoro Hana.	31° 12.6′ N 130° 38.2′ E	**Fl.G.** period 3s	39 **12**	5	White tower; 33.	
11030 *M 4820.8*	-Ibusuki Ko, breakwater.	31° 14.3′ N 130° 39.5′ E	**Fl.R.** period 5s	31 **9**	4	Red tower; 23.	
11032 *M 4821*	-Chirin Jima, NE. point of island.	31° 16.6′ N 130° 40.9′ E	**Fl.W.** period 4s	331 **101**	8	White round concrete tower; 36.	
11036 *M 4821.2*	-O-Nezime Ko, N. breakwater.	31° 15.2′ N 130° 47.3′ E	**Fl.G.** period 3s	36 **11**	5	White tower; 26.	
11040 *M 4820.6*	-Nezime Ko, N. breakwater.	31° 13.1′ N 130° 45.4′ E	**Fl.(2)G.** period 6s	36 **11**	7	White tower; 26.	
11044 *M 4819.5*	-Nagasaki Hana.	31° 09.4′ N 130° 35.2′ E	**Fl.(2)W.** period 8s	69 **21**	12	White tower; 33.	
11048 *M 4819*	Maese Hana.	31° 14.9′ N 130° 24.8′ E	**Fl.W.** period 4s	56 **17**	12	White tower; 30.	
	MAKURASAKI KO:						
11056 *M 4815.3*	-S. breakwater, head.	31° 15.5′ N 130° 17.5′ E	**Fl.(2)R.** period 6s	59 **18**	5	Red tower; 33.	
11060 *M 4817*	-W. breakwater, head.	31° 15.7′ N 130° 17.6′ E	**Fl.(2)G.** period 6s	49 **15**	5	White tower; 23.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			JAPAN-KYUSHU				
11064 *M 4812*	**Bono Misaki.**	31° 15.0′ N 130° 13.0′ E	**Fl.(3)W.** period 30s	276 **84**	**21**	White octagonal concrete tower; 39.	Visible 274°-157°.
11068 *M 5080*	Minega Saki.	31° 16.3′ N 130° 13.0′ E	**Iso.W.** period 6s	410 **125**	5	White tower; 26.	
11072 *M 5083*	Satuma.	31° 25.0′ N 130° 06.6′ E	**Fl.W.** period 5s	489 **149**	11	White round concrete tower; 36.	
11076 *M 5082*	Bonoura Naga Se.	31° 16.2′ N 130° 13.6′ E	**Mo.(A)R.** period 9s	23 **7**	3	STARBOARD (B) R, tower, topmark; 26.	
11080 *M 5084*	Kataura Ko, breakwater, head.	31° 25.3′ N 130° 11.0′ E	**Fl.W.** period 3s	36 **11**	7	White tower; 29.	
11081 *M 5084.5*	Kagosima Ken.	31° 25.1′ N 130° 11.1′ E	**Fl.(2)R.** period 6s	23 **7**	3	Red tower; 13.	
11084 *M 4994.7*	Torinosu Yama.	31° 47.0′ N 129° 48.1′ E	**Fl.W.** period 4s	236 **72**	13	White tower; 30.	F. light illuminates beacon on Heta-no-Se about 275 meters NE.
11088 *M 4994.6*	Tsubura Saki.	31° 47.4′ N 129° 46.9′ E	**Fl.(4)W.** period 15s	299 **91**	12	White tower; 36.	F.W. light illuminates beacon 360 meters WSW.
11092 *M 4994.4*	Imuta Ko, breakwater.	31° 46.8′ N 129° 47.9′ E	**Fl.G.** period 6s	52 **16**	5	White tower; 30.	
11094 *M 4994.2*	Nagahama Ko, S. breakwater.	31° 42.2′ N 129° 44.6′ E	**Fl.G.** period 3s	52 **16**	5	White tower; 33.	
11096 *M 4992*	**Tsurikake Saki.**	31° 37.4′ N 129° 41.5′ E	**Fl.W.** period 15s	479 **146**	**23**	White round concrete tower; 56.	Visible 271°-115°. Storm signal.
11100 *M 4994*	Teuchi Ko, breakwater.	31° 37.9′ N 129° 43.0′ E	**Fl.(2)G.** period 6s	56 **17**	7	White tower; 36.	
11104 *M 4996*	Nakakoshiki, breakwater.	31° 50.0′ N 129° 51.7′ E	**Fl.G.** period 4s	33 **10**	3	White tower; 23.	
11108 *M 4995*	-Training wall.	31° 49.8′ N 129° 50.6′ E	**Fl.R.** period 4s	39 **12**	7	Red concrete tower, square base; 33.	
11112 *M 4994.8*	Koshiki, Taira Ko, breakwater, head.	31° 48.3′ N 129° 50.5′ E	**Fl.(2)G.** period 6s	36 **11**	5	White round concrete tower; 20.	
	KUSHIKINO KO:						
11116 *M 5090*	-S. breakwater, N. head.	31° 42.6′ N 130° 15.1′ E	**Fl.R.** period 3s	59 **18**	5	Red tower; 30.	
11120 *M 5088*	-N. breakwater, S. head.	31° 42.7′ N 130° 15.3′ E	**Fl.G.** period 3s	49 **15**	3	White tower; 30.	
11124 *M 5087*	-Naga Saki.	31° 42.5′ N 130° 15.5′ E	**F.W.**	49 **15**		White tower; 23.	Illuminates rock 700 meters S.
11126 *M 5087.5*	-Detached breakwater.	31° 43.0′ N 130° 14.9′ E	**Fl.(2)G.** period 6s	52 **16**	5	White tower; 36.	
11128 *M 5091*	Satsuma.	31° 44.4′ N 130° 10.8′ E	**Fl.W.** period 4s	282 **86**	12	White tower; 30.	
11132 *M 5094.6*	Sendai River entrance, breakwater, head.	31° 50.0′ N 130° 10.8′ E	**Fl.G.** period 4s	46 **14**	4	White round concrete tower; 30.	
11136 *M 5094*	Sendai Ko, S. breakwater.	31° 51.3′ N 130° 11.0′ E	**Fl.(2)R.** period 6s	59 **18**	5	Red tower; 39.	
11138 *M 5094.3*	-Outer breakwater.	31° 51.5′ N 130° 10.7′ E	**Fl.(2)G.** period 6s	56 **17**	5	White round concrete tower; 36.	
11140 *M 5094.28*	-W. breakwater, S. head.	31° 51.4′ N 130° 11.2′ E	**Fl.G.** period 3s	46 **14**	3	White round concrete tower; 33.	
11146 *M 5094.25*	--N. head.	31° 52.2′ N 130° 11.6′ E	**Fl.R.** period 4s	30 **9**	3	Red tower; 13.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			JAPAN-KYUSHU				
11148 *M 5093*	Naka Se.	31° 51.2′ N 130° 03.0′ E	**Fl.(2)W.** period 5s	62 **19**	7	ISOLATED DANGER BRB, beacon, topmark; 56.	
	RACON		**OE(– – – •)**		5		(3cm).
11152 *M 4996.4*	Satomura.	31° 50.2′ N 129° 55.8′ E	**Oc.W.** period 5s lt. 3s, ec. 2s	177 **54**	12	White round concrete tower; 33.	
11156 *M 5092*	Ite Saki.	31° 52.1′ N 129° 56.3′ E	**Fl.W.** period 3s	272 **83**	5	White round concrete tower; 36.	
11158	Sato Ko, outer breakwater.	31° 50.7′ N 129° 55.5′ E	**Fl.G.** period 3s	27 **8**	5	White tower; 16.	
11160 *M 4997*	Nawase Hana.	31° 52.8′ N 129° 50.2′ E	**Fl.W.** period 5s	574 **175**	12	White round concrete tower; 33.	
11164 *M 5095*	Akune Ko.	32° 00.7′ N 130° 10.7′ E	**Fl.(2)W.** period 10s	141 **43**	12	White round concrete tower, square base; 33.	F.W. auxiliary light illuminated obstruction 300 meters away.
11168 *M 5096*	Akune Ko, W. breakwater, head.	32° 01.2′ N 130° 11.4′ E	**Fl.R.** period 3s	39 **12**	3	Red round concrete tower; 26.	
11169.1 *M 5098*	-Center breakwater.	32° 01.6′ N 130° 11.0′ E	**Fl.(2)G.** period 6s	52 **16**	4	White tower; 26.	
11172 *M 5100*	Kobira Se.	32° 04.9′ N 130° 10.3′ E	**Fl.(3)W.** period 13s	66 **20**	12	White round concrete tower; 30.	F.W. light shows over Hira Se.
11176 *M 5101*	Kuronohama Ko, S. breakwater.	32° 05.5′ N 130° 10.4′ E	**Fl.(2)R.** period 6s	46 **14**	3	Red tower; 33.	
11180 *M 5100.2*	Satuma No Se.	32° 05.1′ N 130° 10.0′ E	**Mo.(A)G.** period 8s	43 **13**	3	PORT (B) G, tower, topmark; 36.	
11184 *M 5102*	**Nagasaki Hana.**	32° 07.5′ N 130° 06.7′ E	**Fl.W.** period 10s	89 **27**	**15**	White tower; 49.	Visible 326°-162°.
11188 *M 5103*	Sasue Ko, S. breakwater.	32° 09.4′ N 130° 06.8′ E	**Fl.R.** period 3s	32 **10**	3	Red tower; 16.	
11192 *M 5106*	To Shima.	32° 11.9′ N 130° 04.9′ E	**Fl.W.** period 3s	158 **48**	7	White round stone tower; 20.	Visible 162°-032°.
11196 *M 5130*	Miyanoura Ko, breakwater.	32° 12.0′ N 130° 11.5′ E	**Fl.G.** period 4s	26 **8**	3	White tower; 16.	
11200	Komenotsu Ko, N. breakwater, head.	32° 07.6′ N 130° 20.7′ E	**Fl.(2)G.** period 6s	43 **13**	3	White tower; 30.	
11204 *M 5133*	-Detached breakwater, NE. head.	32° 08.1′ N 130° 20.2′ E	**Fl.R.** period 3s	26 **8**	5	Red round concrete tower, 16.	
11208 *M 5131*	Nago Ko, breakwater.	32° 07.5′ N 130° 19.7′ E	**Fl.(2)G.** period 6s	39 **12**	3	White round concrete tower; 30.	
11212 *M 5134*	Minamata Ko, Koji Shima, W. extremity.	32° 11.8′ N 130° 21.7′ E	**Fl.W.** period 3s	105 **32**	7	White tower; 36.	
11224 *M 5136.4*	Marushima Ko, E. breakwater.	32° 13.0′ N 130° 23.0′ E	**Fl.R.** period 3s	30 **9**	3	Red tower; 16.	
11228 *M 5136.7*	Tunagi Wan.	32° 14.4′ N 130° 25.9′ E	**Fl.G.** period 3s	39 **12**	3	White tower; 30.	
11234 *M 5137.46*	Sasiki Ko, breakwater.	32° 16.4′ N 130° 26.8′ E	**Fl.R.** period 5s	26 **8**	3	Red tower; 16.	
11236 *M 5137.4*	Egushi Ko, breakwater.	32° 16.9′ N 130° 26.8′ E	**Fl.R.** period 6s	36 **11**	3	Red tower; 30.	
11240 *M 5137.47*	Higo Okino Shima.	32° 18.0′ N 130° 26.8′ E	**Fl.W.** period 3s	79 **24**	5	White tower; 26.	
11242 *M 5137.48*	Sasiki Ko, N. breakwater, S. head.	32° 18.0′ N 130° 28.2′ E	**Fl.G.** period 3s	33 **10**	3	White tower; 20.	

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			JAPAN-KYUSHU				
11244 *M 5137.5*	Ganno Shiri.	32° 18.3′ N 130° 18.1′ E	**Fl.W.** period 4s	151 **46**	7	White round concrete tower, red bands; 36.	
11248 *M 5137.8*	Hongo Ko, breakwater, head.	32° 20.5′ N 130° 20.1′ E	**Fl.G.** period 3s	33 **10**	3	White tower; 16.	
11256 *M 5137.6*	Arakuchi Ko, No 4 breakwater.	32° 20.9′ N 130° 21.6′ E	**Fl.R.** period 6s	39 **12**	3	Red tower; 30.	
11260 *M 5138.5*	Daido Ko, E. breakwater.	32° 22.9′ N 130° 21.2′ E	**Fl.R.** period 3s	39 **12**	3	Red tower; 30.	
11264 *M 5138.6*	Yoitigaura Ko, breakwater.	32° 22.2′ N 130° 21.1′ E	**Fl.G.** period 3s	43 **13**	3	White tower; 33.	
11268 *M 5138.8*	Karajiro Hana.	32° 22.6′ N 130° 21.3′ E	**Fl.W.** period 3s	105 **32**	7	White tower; 33.	
11269 *M 5138.9*	Matu ga Hana.	32° 22.9′ N 130° 22.8′ E	**F.W.**	49 **15**		White tower; 36.	Spotlight illuminates beacon on shoal 180 meters S.
11270 *M 5138.85*	Ike-no-Ura.	32° 23.3′ N 130° 22.1′ E	**Fl.R.** period 4s	30 **9**	5	Red tower; 20.	
11274 *M 5155.1*	-W. breakwater, head.	32° 23.8′ N 130° 18.4′ E	**Fl.R.** period 5s	30 **9**	4	Red tower; 20.	
11276 *M 5139*	Hino Shima.	32° 23.1′ N 130° 24.6′ E	**Fl.(2)R.** period 6s	33 **10**	5	Red round concrete tower; 33.	
11276.5 *M 5139.5*	-Breakwater.	32° 23.8′ N 130° 24.5′ E	**Fl.(2)G.** period 6s	39 **12**	5	White tower; 30.	
11278 *M 5139.2*	Tomari Yama.	32° 22.7′ N 130° 25.1′ E	**Fl.G.** period 4s	29 **9**	3	White tower; 16.	
11279 *M 5138.95*	Roya Ka Wachi Ko.	32° 23.5′ N 130° 23.4′ E	**Fl.G.** period 3s	30 **9**	3	White tower; 20.	
11284 *M 5140.2*	Hino Shima, NW.	32° 23.9′ N 130° 24.2′ E	**Fl.R.** period 3s	30 **9**	3	Red tower; 16.	
11288 *M 5140.4*	Uryu Saki.	32° 26.0′ N 130° 25.4′ E	**Fl.W.** period 4s	121 **37**	7	White tower; 39.	
11292 *M 5140.5*	Himedo Ko, breakwater.	32° 26.3′ N 130° 24.8′ E	**Fl.G.** period 3s	36 **11**	3	White tower; 30.	
11294 *M 5140.55*	-Breakwater.	32° 27.0′ N 130° 25.3′ E	**Fl.G.** period 4s	30 **9**	3	White tower; 20.	
11296 *M 5140.6*	Yatusiro Ko, W. breakwater.	32° 28.2′ N 130° 26.3′ E	**Fl.G.** period 3s	46 **14**	3	White tower; 30.	
11300 *M 5140.8*	Usi Se.	32° 28.4′ N 130° 26.4′ E	**Fl.(2)W.** period 5s	40 **12**	3	ISOLATED DANGER BRB, beacon, topmark; 30.	
11304 *M 5142.4*	Yatsushiro Ko, breakwater.	32° 31.4′ N 130° 32.0′ E	**Fl.(2)R.** period 8s	43 **13**	4	Red tower; 30.	
11308 *M 5142*	-Groin.	32° 32.8′ N 130° 33.1′ E	**Fl.G.** period 3s	43 **13**	5	White tower; 30.	
11312 *M 5141*	Shimo-Utano Hana.	32° 31.8′ N 130° 27.6′ E	**Fl.(2)W.** period 6s	148 **45**	10	White round concrete tower; 66.	F.W. spotlight illuminates Sobei sei.
11316 *M 5141.2*	Amura, breakwater, head.	32° 32.0′ N 130° 27.0′ E	**F.Fl.R.** period 5s	39 **12**	F. 6 Fl. 11	Red tower; 28.	
11320 *M 5141.6*	Aizu Ko, Naga Se.	32° 31.5′ N 130° 25.9′ E	**Mo.(A)R.** period 9s	30 **9**	3	STARBOARD (B) R, tower, topmark; 20.	
11322 *M 5143.7*	Oniki Wan.	32° 14.3′ N 130° 00.6′ E	**Iso.R.** period 4s	29 **9**	4	Red tower; 20.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			JAPAN-KYUSHU				
	USHIBUKA KO:						
11324 *M 5120*	-Ushibuka Moqushi.	32° 13.0′ N 130° 00.8′ E	**F.W.**	400 **122**	13	Wooden mast; 30.	Visible 045°-135°.
11328 *M 5110.2*	-Detached breakwater, S. head.	32° 11.6′ N 130° 01.9′ E	**Fl.R.** period 3s	43 **13**	5	Red tower; 33.	
11340 *M 5143.6*	-Ushibuka.	32° 11.0′ N 129° 58.1′ E	**Fl.W.** period 5s	230 **70**	12	White tower; 36.	
11344 *M 5118*	-Usibuka Ko, breakwater.	32° 10.9′ N 130° 01.0′ E	**Fl.R.** period 3s	49 **15**	3	Red tower; 33.	
11346 *M 5107.5*	-E. breakwater.	32° 12.1′ N 130° 02.1′ E	**Fl.G.** period 4s	33 **10**	5	White tower; 16.	
11352 *M 5117*	-Suguchi Ura approach.	32° 11.1′ N 130° 00.4′ E	**Fl.(2)R.** period 6s	49 **15**	5	Red tower; 33.	
11354 *M 5119*	--Outer breakwater.	32° 11.0′ N 130° 00.3′ E	**Fl.(2)G.** period 6s	49 **15**	5	White tower; 33.	
11356	-Nagateno.	32° 11.5′ N 130° 01.2′ E	**Fl.(2)W.** period 7s	279 **85**	12	White tower; 36.	
11360 *M 5109*	-Itimonoji, breakwater.	32° 11.5′ N 130° 01.9′ E	**Fl.G.** period 3s	36 **11**	5	White tower; 30.	
11361 *M 5106.5*	Katagawa, breakwater.	32° 10.8′ N 130° 02.1′ E	**Iso.G.** period 4s	28 **8**	4	White tower; 16.	
11363 *M 5106.2*	Yamanoura Ko, breakwater.	32° 13.5′ N 130° 04.5′ E	**Iso.R.** period 4s	26 **8**	4	Red tower; 20.	
11369 *M 5126.5*	Hukami Ko.	32° 15.2′ N 130° 05.9′ E	**Fl.R.** period 3s	27 **8**	3	Red tower; 20.	
11372 *M 5129.1*	Kajiki Saki.	32° 16.9′ N 130° 08.7′ E	**Fl.W.** period 3s	66 **20**	5	White tower; 33.	
11376 *M 5129.15*	Kamihira Ko, breakwater.	32° 17.1′ N 130° 08.0′ E	**Fl.G.** period 3s	39 **12**	3	White tower; 30.	
11380 *M 5129.25*	Miyana Kawachi.	32° 18.3′ N 130° 08.5′ E	**Fl.R.** period 3s	36 **11**	3	Red tower; 30.	
11384 *M 5128*	Kaminate Jima, in Hachiman Seto.	32° 15.8′ N 130° 09.3′ E	**Fl.(2)W.R.** period 5s	66 **20**	5	White round stone tower; 23.	R. 226°-232°, W.-226°.
11388 *M 5129.6*	Hegusi Ko, S. breakwater.	32° 15.6′ N 130° 13.6′ E	**Fl.R.** period 4s	30 **9**	4	Red tower; 20.	
11389 *M 5129.7*	Mehuki Seto, Hyotan Sima.	32° 14.6′ N 130° 12.8′ E	**Fl.R.** period 3s	31 **9**	4	STARBOARD (B) R, tower, topmark; 23.	
11390 *M 5129.8*	Kuzuwa Ko, breakwater.	32° 15.4′ N 130° 11.2′ E	**Iso.G.** period 6s	29 **9**	4	White tower; 23.	
11392 *M 5129*	Mate Shima.	32° 16.6′ N 130° 11.4′ E	**Fl.W.** period 4s	79 **24**	7	White round concrete tower; 30.	
11394 *M 5129.05*	Katasoba Ko.	32° 16.6′ N 130° 12.8′ E	**Fl.R.** period 5s	28 **8**	4	Red tower; 20.	
11396 *M 5129.3*	Naga Se.	32° 18.8′ N 130° 10.1′ E	**Mo.(A)R.** period 8s	33 **10**	5	STARBOARD (B) R, tower, topmark; 30.	
11400 *M 5129.2*	Nakata Ko, breakwater.	32° 20.0′ N 130° 09.5′ E	**Fl.G.** period 5s	39 **12**	3	White square metal framework tower; 30.	
11404 *M 5129.4*	Otao Ko, No 1 breakwater.	32° 21.4′ N 130° 12.8′ E	**Fl.G.** period 3s	39 **12**	7	White tower; 30.	
11410 *M 5138*	Yubunebara Wan.	32° 24.2′ N 130° 15.7′ E	**Fl.G.** period 3s	30 **9**	3	White tower; 20.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			JAPAN-KYUSHU				
11412 *M 5138.4*	Sumoto Ko, No 1 breakwater.	32° 24.6′ N 130° 16.4′ E	**Iso.G.** period 4s	36 **11**	3	White round concrete tower, square base; 26.	
11416 *M 5143.8*	Sakitsu Ura.	32° 18.5′ N 130° 01.6′ E	**Iso.W.** period 6s	79 **24**	5	White tower; 30.	
11424 *M 5144*	Oye Ko.	32° 19.1′ N 129° 59.3′ E	**Iso.W.** period 6s	272 **83**	12	White square concrete tower; 23.	Visible 013°-140°. F.W. floodlight illuminates Shimabare Se to the SSW.
11426 *M 5144.45*	-Oe ko, SE. breakwater, head.	32° 19.0′ N 129° 59.5′ E	**Fl.G.** period 3s	52 **16**	3	White tower; 16.	
11432 *M 5144.6*	Higo Takahama.	32° 22.7′ N 129° 59.3′ E	**Fl.(2)R.** period 6s	46 **14**	4	Red tower; 20.	
11436 *M 5144.5*	Takahama.	32° 23.0′ N 129° 59.3′ E	**Fl.W.** period 4s	213 **65**	7	White tower; 30.	
11438 *M 5154*	Yoko Sima Island.	32° 22.8′ N 130° 14.1′ E	**Fl.W.** period 3s	112 **34**	7	White round concrete tower; 36.	
11440 *M 5145*	Higo Shimoda Ko, breakwater.	32° 25.5′ N 130° 00.2′ E	**F.Fl.R.** period 6s	52 **16**	F. 2 Fl. 5	Red round concrete tower; 33.	
11440.5 *M 5146.27*	Tororo.	32° 28.6′ N 130° 02.0′ E	**Dir.W.R.G.**	33 **10**	W. 7 R. 4 G. 4	White tower; 15.	F.G. 175°-178°30′, F.W.-181°30′, F.R.-185°. Reserve light range 2-1M.
11441 *M 5146.253*	Reihoku.	32° 29.5′ N 130° 02.1′ E	**Mo.(B)Y.** period 8s	30 **9**	6	SPECIAL Y, tower, "X" topmark; 30.	
11443 *M 5146.28*	Tosikara, breakwater.	32° 29.2′ N 130° 01.9′ E	**Fl.(2)R.** period 6s	59 **18**	9	Red tower, 39.	
11443.1 *M 5146.26*	-Inner breakwater.	32° 29.0′ N 130° 02.0′ E	**Fl.(2)G.** period 6s	43 **13**	7	White tower; 30.	
11443.5 *M 5146.25*	Huka Se.	32° 29.7′ N 130° 02.0′ E	**Mo.(A)G.** period 8s	30 **9**	6	PORT (B) G, tower, topmark; 30.	
11444 *M 5146.4*	Tomioka, Gyoka, S. breakwater.	32° 30.9′ N 130° 02.0′ E	**Fl.R.** period 3s	39 **12**	4	Red square metal framework tower; 16.	
11448 *M 5146*	Sikizakimuaki.	32° 31.8′ N 130° 00.8′ E	**Fl.W.** period 4s	184 **56**	12	White round concrete tower; 26.	
11452 *M 5147*	Nanatsu Se.	32° 32.8′ N 130° 06.3′ E	**Mo.(A)G.** period 8s	39 **12**	3	PORT (B) G, tower, topmark; 33.	
11456 *M 5147.4*	Kogame Iwa.	32° 33.7′ N 130° 06.5′ E	**Mo.(D)R.** period 8s	49 **15**	3	STARBOARD (B) R, tower, topmark; 39.	
11460 *M 5148*	Gotsu Sho.	32° 34.4′ N 130° 06.7′ E	**Q.W.**	46 **14**	5	N. CARDINAL BY, tower, topmark; 39.	
11468 *M 5149.4*	Futae Ko, No 2 breakwater.	32° 32.8′ N 130° 08.0′ E	**Fl.G.** period 5s	46 **14**	4	White round concrete tower, square base; 30.	
11472 *M 5150*	Oniike Ko, breakwater, head.	32° 33.0′ N 130° 11.5′ E	**Fl.(2)R.** period 6s	32 **10**	4	Red tower; 20.	
11476 *M 5150.4*	Gorio Ko, breakwater.	32° 31.0′ N 130° 11.8′ E	**F.Fl.(2)R.** period 10s	32 **10**	F. 3 Fl. 7	Red round concrete tower; 26.	
11480 *M 5150.6*	Saitsu Ko, breakwater.	32° 29.6′ N 130° 11.8′ E	**Fl.R.** period 3s	39 **12**	3	Red round concrete tower; 26.	
11484 *M 5151*	Hondo Ko, groin, head.	32° 27.6′ N 130° 12.6′ E	**Fl.R.** period 4s	39 **12**	4	Red round concrete tower; 33.	
11488 *M 5152*	Hondo Ko.	32° 27.4′ N 130° 12.3′ E	**Mo.(A)G.** period 8s	33 **10**	5	PORT (B) G, tower, topmark; 36.	
11492 *M 5154.4*	Shimako Ko, No 1 breakwater.	32° 28.5′ N 130° 15.1′ E	**Iso.G.** period 4s	43 **13**	3	White tower; 33.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			JAPAN-KYUSHU				
11494 *M 5152.5*	-Hondo Seto.	32° 26.7′ N 130° 12.3′ E	**Fl.(2)R.** period 6s	33 **10**	3	STARBOARD (B) R, tower, topmark; 23.	
11496 *M 5153*	Goshiki Shima.	32° 25.1′ N 130° 13.0′ E	**Fl.G.** period 3s	28 **9**	3	PORT (B) G, beacon, topmark; 23.	
11500 *M 5150.8*	Kami-Tizuka Sima.	32° 25.5′ N 130° 13.1′ E	**Fl.(2)R.** period 6s	40 **12**	3	STARBOARD (B) R, tower, topmark; 26.	
11504 *M 5154.6*	Kamituura Ko, N. breakwater.	32° 29.6′ N 130° 17.5′ E	**Fl.G.** period 3s	46 **14**	3	White tower; 30.	
11508 *M 5154.8*	Oura Ko, breakwater.	32° 31.2′ N 130° 22.5′ E	**Iso.R.** period 4s	42 **13**	4	Red tower; 30.	
11512 *M 5141.3*	Kaiba Ko, breakwater.	32° 33.0′ N 130° 27.0′ E	**Fl.G.** period 5s	43 **13**	3	White tower; 33.	
11516 *M 5141.4*	Satuma Se.	32° 32.8′ N 130° 27.3′ E	**Fl.(2)W.** period 5s	33 **10**	3	ISOLATED DANGER BRB, tower, topmark; 26.	
11520 *M 5141.5*	Yanagi Ko, breakwater, head.	32° 32.9′ N 130° 26.5′ E	**Fl.G.** period 4s	39 **12**	3	White tower; 30.	
11524 *M 5183*	Sukawa Ko, E. breakwater.	32° 39.0′ N 130° 17.5′ E	**Fl.(2)R.** period 6s	36 **11**	3	Red tower; 30.	
11528 *M 5156*	Yu Shima.	32° 36.3′ N 130° 19.9′ E	**Fl.W.** period 3s	128 **39**	11	White tower; 39.	Visible 336°-243°.
11532 *M 5157*	Yu Sima Ko, breakwater.	32° 35.9′ N 130° 20.0′ E	**Fl.R.** period 3s	30 **9**	4	Red tower; 20.	
11536 *M 5154.7*	Akasaki, E. breakwater, head.	32° 31.1′ N 130° 19.2′ E	**Iso.G.** period 4s	36 **11**	3	White tower; 26.	
11540 *M 5158*	Ebito Ko, breakwater.	32° 34.8′ N 130° 24.9′ E	**Fl.(2)G.** period 8s	39 **12**	3	White tower; 30.	
11542 *M 5159*	Hatonokama Ko.	32° 34.8′ N 130° 24.2′ E	**Fl.R.** period 3s	25 **8**	3	Red tower; 16.	
11544 *M 5160*	Misumi.	32° 37.5′ N 130° 26.6′ E	**Fl.(2)W.** period 7s	131 **40**	12	White tower; 23.	Visible 109°-316°.
11548 *M 5162*	Misumi Ko, Ninai Shima.	32° 36.5′ N 130° 27.5′ E	**Fl.(2)W.** period 6s	39 **12**	3	White tower; 30.	
11552 *M 5164*	Tera Shima.	32° 35.7′ N 130° 28.5′ E	**Fl.W.R.** period 3s	33 **10**	3	White round stone tower; 36.	R. 106°-139°, W.-356°.
11556 *M 5143*	Tobaseshima.	32° 34.6′ N 130° 29.3′ E	**Fl.W.** period 4s	108 **33**	7	White round stone tower; 26.	Visible 297°-154°.
11560 *M 5165*	Higo, Kabuto Shima.	32° 34.5′ N 130° 27.5′ E	**Fl.W.** period 3s	39 **12**	3	White round concrete tower; 26.	
11564 *M 5143.2*	-Mihune.	32° 37.1′ N 130° 32.8′ E	**Mo.(A)R.** period 8s	39 **12**	5	STARBOARD (B) R, tower, topmark; 33.	
	SHIMABARA KAIWAN:						
11568 *M 5179.8*	-Shimabara, about 3.5 kilometers N. of city.	32° 48.8′ N 130° 22.0′ E	**Fl.G.** period 4s	46 **14**	5	White round concrete tower; 30.	
11572 *M 5180*	-Simabara.	32° 46.8′ N 130° 22.9′ E	**Fl.W.** period 4s	62 **19**	5	White square metal framework tower; 43.	
11576 *M 5182*	-Moso Se.	32° 45.8′ N 130° 22.7′ E	**Mo.(A)R.** period 8s	33 **10**	5	STARBOARD (B) R, beacon, topmark; 36.	
11580 *M 5181*	-Breakwater.	32° 45.9′ N 130° 22.5′ E	**Fl.(2)R.** period 6s	39 **12**	5	Red round concrete tower, square base; 26.	
11584 *M 5182.5*	-Hukae Ko.	32° 42.8′ N 130° 21.1′ E	**Fl.R.** period 3s	33 **10**	3	Red tower; 16.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			JAPAN-KYUSHU				
11588 *M 5167*	-Oda Ko, E. training wall.	32° 40.1′ N 130° 32.1′ E	**Fl.G.** period 3s	39 **12**	3	White metal framework tower; 33.	
11592 *M 5168*	Sumiyoshi.	32° 42.5′ N 130° 35.4′ E	**Fl.(2)W.** period 6s	131 **40**	7	White tower; 56.	
11596 *M 5170*	Hyakkan Ko.	32° 48.0′ N 130° 36.2′ E	**Fl.W.** period 3s	46 **14**	7	White tower; 26.	
11600 *M 5171*	-Higo, Sioyo, S. breakwater.	32° 49.0′ N 130° 35.3′ E	**Fl.(2)R.** period 8s	43 **13**	5	Red metal framework tower; 26.	
11604 *M 5172*	-Kawati.	32° 49.7′ N 130° 34.8′ E	**Fl.W.** period 4s	85 **26**	7	White tower; 33.	
11608 *M 5172.4*	-Kawati Ko, N. breakwater.	32° 49.9′ N 130° 34.8′ E	**Fl.G.** period 3s	30 **9**	3	White tower; 16.	
11609 *M 5179.75*	Suge Hana.	32° 51.1′ N 130° 20.6′ E	**Fl.R.** period 3s	32 **10**	3	Red tower; 16.	
11610 *M 5179.7*	-Hamasuge.	32° 51.8′ N 130° 19.9′ E	**Fl.(2)R.** period 6s	36 **11**	4	White tower; 20.	
11612 *M 5172.7*	-Taishokai Ko, No 1 breakwater.	32° 53.3′ N 130° 30.5′ E	**Fl.R.** period 3s	33 **10**	3	Red tower; 20.	
11616 *M 5173.2*	-Nagasu Ko.	32° 55.4′ N 130° 26.3′ E	**Iso.G.** period 6s	42 **13**	5	White tower; 26.	
11620 *M 5179.6*	-Kunimi Tahira Ko, breakwater.	32° 52.6′ N 130° 18.7′ E	**F.Fl.R.** period 5s	46 **14**	F. 2 Fl. 5	Red tower; 26.	
11622 *M 5179.65*	-Breakwater.	32° 52.7′ N 130° 18.4′ E	**Fl.R.** period 4s	36 **11**	5	Red tower; 18.	
11624 *M 5179.2*	-Konagai Ko, breakwater, head.	32° 55.6′ N 130° 11.6′ E	**Fl.G.** period 3s	43 **13**	5	White tower; 30.	
11628 *M 5174*	-Miike Ko, about 20 meters 223° from Yotsu Yana summit.	33° 00.1′ N 130° 25.6′ E	**Fl.W.** period 5s	213 **65**	12	White tower; 49.	
11632 *M 5174.4*	--Offing Light.	32° 59.5′ N 130° 21.0′ E	**Fl.(2)W.** period 5s	36 **11**	5	ISOLATED DANGER BRB, beacon, topmark; 36.	
11636 *M 5175*	--N. groin.	33° 00.3′ N 130° 23.5′ E	**Fl.G.** period 3s	49 **15**	5	White tower; 33.	
11640 *M 5175.3*	-Omuta Ko.	33° 02.1′ N 130° 25.2′ E	**Fl.G.** period 4s	43 **13**	4	White round concrete tower; 30.	
11644 *M 5179*	Yato Hana.	32° 57.5′ N 130° 13.5′ E	**Fl.W.** period 3s	125 **38**	10	White tower; 30.	
11648 *M 5179.04*	Takazakiko, W. breakwater, head.	32° 57.2′ N 130° 13.2′ E	**Fl.G.** period 3s	33 **10**	5	White round metal column; 20.	
11652 *M 5179.1*	Michikoshi Ko, S. breakwater, head.	32° 57.6′ N 130° 13.5′ E	**F.Fl.(2)G.** period 6s	33 **10**	F. 1 Fl. 3	White round concrete tower; 16.	
11654 *M 5178.6*	-N. breakwater, head.	32° 58.3′ N 130° 13.5′ E	**Fl.R.** period 5s	28 **9**	3	Red tower; 16.	
11656 *M 5178.5*	-Kame Se.	32° 59.2′ N 130° 12.8′ E	**Fl.(2)W.** period 5s	33 **10**	5	ISOLATED DANGER BRB, tower, topmark; 30.	
11660 *M 5177*	-Okikami Se.	33° 03.8′ N 130° 13.5′ E	**Fl.(2)W.** period 5s	43 **13**	5	ISOLATED DANGER BRB, tower, topmark; 33.	
11664 *M 5177.2*	-Hizen-Ka Sima.	33° 04.8′ N 130° 12.1′ E	**Mo.(A)G.** period 8s	39 **12**	3	PORT (B) G, beacon, topmark; 39.	
11668 *M 5177.4*	-Suminoe Ko Range, front.	33° 09.2′ N 130° 13.4′ E	**Fl.W.** period 3s	33 **10**	8	White metal column; 33.	
11672 *M 5177.41*	--Rear, 350 meters 331°24′ from front.	33° 09.4′ N 130° 13.3′ E	**Fl.W.** period 3s	49 **15**	8	White metal column; 56.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			JAPAN-KYUSHU				
11676 *M 5177.5*	--No 1.	33° 11.0′ N 130° 14.1′ E	**Fl.(2)G.** period 6s	27 **8**	5	PORT (B) G, beacon, topmark; 36.	
11680 *M 5177.6*	--No 2.	33° 11.2′ N 130° 14.2′ E	**Fl.(2)R.** period 6s	33 **10**	5	STARBOARD (B) R, beacon, topmark; 30.	
11684 *M 5177.8*	--No 4.	33° 11.9′ N 130° 13.3′ E	**Fl.R.** period 3s	39 **12**	5	STARBOARD (B) R, column, topmark; 39.	
11688 *M 5176.5*	-Okinohasi.	33° 08.2′ N 130° 21.7′ E	**Mo.(D)R.** period 8s	49 **15**	3	STARBOARD (B) R, tower, topmark; 49.	F.W., F.R. and F.G. mark bridge 3.5 miles upstream.
11692 *M 5176.7*	-Hayatue Kawaguti.	33° 08.0′ N 130° 18.7′ E	**Mo.(C)R.** period 10s	33 **10**	3	STARBOARD (B) R, beacon, topmark.	
11696 *M 5176.8*	-W.	33° 08.6′ N 130° 19.6′ E	**Oc.W.** period 4s	43 **13**	12	White tower; 33.	
11698 *M 5177.22*	Suminoe Ko, approach.	33° 09.1′ N 130° 17.1′ E	**Mo.(U)W.** period 8s	22 **7**	3		
11699 *M 5177.24*	-W.	33° 09.1′ N 130° 16.9′ E	**Mo.(U)W.** period 8s	22 **7**	3		
11700 *M 5176.85*	-Hiroe Ko.	33° 10.0′ N 130° 16.6′ E	**Iso.R.** period 4s	42 **13**	5	Red tower; 23.	
11704 *M 5175.8*	-Tikugo Hiyakuken.	33° 04.4′ N 130° 22.0′ E	**Mo.(B)R.** period 8s	52 **16**	3	STARBOARD (B) R, tower, topmark; 46.	
11705 *M 5175.5*	Yabe Kawa.	33° 05.0′ N 130° 24.7′ E	**Fl.R.** period 3s	43 **13**	4	Red tower; 20.	
11706 *M 5175.85*	Yamoto.	33° 05.7′ N 130° 23.3′ E	**Iso.W.** period 6s	43 **13**	7	White tower; 20.	
11708 *M 5175.9*	--Offing.	33° 06.1′ N 130° 21.4′ E	**Mo.(A)R.** period 8s	33 **10**	3	STARBOARD (B) R, tower, topmark; 36.	
11709 *M 5182.8*	-Simabara Wan.	32° 39.9′ N 130° 20.1′ E	**Fl.G.** period 3s	33 **10**	5	White tower; 20.	
11709.2 *M 5182.2*	-Hotsu Ko, breakwater.	32° 41.3′ N 130° 21.6′ E	**Fl.(2)R.** period 6s	46 **14**	3	Red tower; 26.	
11709.8 *M 5183.2*	-Breakwater.	32° 39.0′ N 130° 17.3′ E	**Fl.R.** period 3s	26 **8**	4	Red tower; 20.	
11710 *M 5183.5*	-Hurusiro.	32° 37.5′ N 130° 14.9′ E	**Fl.G.** period 4s	30 **9**	3	White tower; 20.	
11712 *M 5184*	-Okino Se.	32° 36.7′ N 130° 14.2′ E	**Fl.(2)W.** period 5s	46 **14**	5	ISOLATED DANGER BRB, tower, topmark; 39.	
11716 *M 5186*	Kuchinotsu Ko.	32° 36.1′ N 130° 11.8′ E	**Fl.(2)W.** period 7s	132 **40**	12	White tower; 23.	Visible 178°-066°.
11716.1 *M 5187.2*	-Breakwater, head.	32° 36.2′ N 130° 12.2′ E	**Fl.R.** period 3s	32 **10**	4	Red tower; 20.	
11728 *M 5187.3*	Setsume Saki.	32° 35.4′ N 130° 10.0′ E	**Iso.W.** period 6s	42 **13**	5	White tower; 36.	
11729 *M 5187.55*	Simabara.	32° 41.3′ N 130° 07.6′ E	**Fl.W.** period 3s	49 **15**	8	White tower; 39.	
11730 *M 5187.5*	Kyodomari Ko, W. breakwater.	32° 41.0′ N 130° 08.0′ E	**Fl.R.** period 3s	23 **7**	3	Red tower; 16.	
11732 *M 5187.4*	-E. basin, W. breakwater.	32° 40.9′ N 130° 08.5′ E	**Iso.R.** period 4s	39 **12**	4	Red tower; 26.	
11736 *M 5187.6*	Syamisen Sima.	32° 45.7′ N 130° 03.0′ E	**Mo.(A)G.** period 8s	49 **15**	5	PORT (B) G, tower, topmark, 49.	
11740 *M 5188*	Wakimisaki Ko, N. breakwater.	32° 34.8′ N 129° 47.1′ E	**F.Fl.R.** period 5s	43 **13**	F. 4 Fl. 8	Red tower; 33.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			JAPAN-KYUSHU				
11744 *M 5188.3*	-S. breakwater, N.	32° 34.8′ N 129° 47.2′ E	**Fl.G.** period 3s	46 **14**	5	White round concrete tower; 30.	
11748 *M 5189*	--S.	32° 34.4′ N 129° 47.0′ E	**Fl.R.** period 3s	46 **14**	3	Red tower; 30.	
11749 *M 5191.4*	Kabasima Ko.	32° 34.2′ N 129° 47.2′ E	**Fl.G.** period 3s	43 **13**	3	White tower; 30.	
11750 *M 5189.51*	-Bridge.	32° 34.1′ N 129° 47.1′ E	**F.W.**	66 **20**	7		Marks center of span. F.G. 6M close W. F.R. 5M close E.
11752 *M 5187.64*	Mogi Ko, E. breakwater, head.	32° 42.3′ N 129° 55.0′ E	**F.Fl.G.** period 3s	42 **13**	F. 3 Fl. 7	White concrete column, square base; 26.	
11754 *M 5187.67*	-Outer breakwater, N. head.	32° 42.0′ N 129° 55.2′ E	**Fl.(2)G.** period 6s	46 **14**	7	White tower; 30.	
11756 *M 5191*	-Outer breakwater.	32° 34.2′ N 129° 46.8′ E	**F.Fl.(2)R.** period 10s	36 **11**	F. 3 Fl. 7	Red round concrete tower, square base; 26.	
11760 *M 5190*	**Kaba Shima.**	32° 33.1′ N 129° 46.6′ E	**Fl.W.** period 20s	407 **124**	**23**	White round concrete tower; 49.	Visible 213°-167°, partially obscured by land when bearing 125°-167°.
11764 *M 5192*	Otategami.	32° 34.0′ N 129° 44.4′ E	**Fl.W.** period 3s	88 **27**	5	White round concrete tower; 20.	
11768 *M 5193*	Nomokita Ura.	32° 35.5′ N 129° 45.1′ E	**Iso.W.** period 6s	134 **41**	5	White round concrete tower; 33.	F.W. illuminates rock 100 meters N.
11772 *M 5193.2*	Nomo Ko.	32° 35.4′ N 129° 45.4′ E	**F.Fl.G.** period 6s	36 **11**	F. 3 Fl. 7	White round concrete tower; 36.	
11776 *M 5193.3*	Nomo Ko.	32° 35.4′ N 129° 45.3′ E	**Fl.R.** period 3s	36 **11**	3	Red round concrete tower; 30.	
11780 *M 5193.4*	Mitu Se.	32° 36.9′ N 129° 42.3′ E	**Fl.W.** period 5s	85 **26**	5	White round concrete tower; 26.	
11784 *M 5193.42*	Hizen Ha Sima.	32° 37.6′ N 129° 44.3′ E	**Fl.W.** period 3s	164 **50**	7	White tower; 33.	
11786 *M 5193.5*	Hizen Takasima Ko.	32° 39.5′ N 129° 45.6′ E	**Fl.(2)G.** period 6s	33 **10**	3	White tower; 23.	**Radar reflector.**
11788 *M 5193.6*	Hizen Kuro Se.	32° 41.1′ N 129° 46.8′ E	**Fl.W.** period 3s	49 **15**	8	White tower; 43.	
	NAGASAKI KO:						
11792 *M 5194*	**-Io Shima.**	32° 42.9′ N 129° 45.7′ E	**Fl.(4)W.** period 30s	210 **64**	**20**	White square concrete tower; 36.	Visible 030°-275°.
11796 *M 5195*	-Hira Se.	32° 42.7′ N 129° 46.9′ E	**Fl.(2)W.** period 5s	52 **16**	7	ISOLATED DANGER BRB, tower, topmark; 46.	
11798 *M 5193.95*	-Breakwater.	32° 42.2′ N 129° 46.9′ E	**Fl.R.** period 3s	30 **9**	4	Red tower; 20.	
11804 *M 5193.8*	-Onaka Seto, N.	32° 41.7′ N 129° 47.5′ E	**Fl.R.** period 3s	46 **14**	5	Red tower; 26.	
11808 *M 5195.5*	-Nagasaki Ko.	32° 42.9′ N 129° 48.6′ E	**Iso.G.** period 4s	49 **15**	5	White round concrete tower; 33.	
11812 *M 5198.8*	-Koe Oki.	32° 45.2′ N 129° 48.4′ E	**Fl.G.** period 4s	46 **14**	7	White round concrete tower; 36.	
11816 *M 5197*	-Mitsubishi Zozen Kagenoo wharf.	32° 42.5′ N 129° 49.8′ E	**Fl.(2)R.** period 6s	46 **14**	7	Red round metal tower; 36.	Private light.
11820 *M 5198.4*	-Asahi-mati, breakwater.	32° 44.7′ N 129° 51.9′ E	**Iso.G.** period 4s	39 **12**	5	White tower; 30.	2 F.W. 5M, 2 F.G. 4M and 2 F.R. 3M mark bridge 750 meters N.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			JAPAN-KYUSHU				
11826 *M 5200*	Hisen Hira Se.	32° 47.1′ N 129° 45.2′ E	**Fl.(2)W.** period 5s	62 **19**	8	ISOLATED DANGER BRB, tower, topmark; 59.	
11828 *M 5199*	Shikimi Ko, breakwater.	32° 47.2′ N 129° 47.3′ E	**Fl.R.** period 3s	49 **15**	5	Red round concrete tower; 16.	
11832 *M 5203*	Mie Ura, E. breakwater.	32° 49.2′ N 129° 44.9′ E	**Fl.R.** period 4s	36 **11**	3	Red round concrete tower; 26.	
11833 *M 5202.5*	Nagasaki Gyoko, range, front.	32° 49.5′ N 129° 45.5′ E	**F.Y.**	220 **67**	13	White triangular tower; 43.	
11833.1 *M 5202.51*	-Rear, 012°24′ from front.	32° 49.5′ N 129° 45.5′ E	**F.Y.**	266 **81**	13	White triangular tower; 33.	
11834 *M 5202*	-Detached breakwater, W. head.	32° 48.8′ N 129° 45.4′ E	**Fl.R.** period 3s	52 **16**	4	Red tower; 30.	
11835 *M 5202.3*	--E. head.	32° 48.5′ N 129° 46.1′ E	**Fl.G.** period 3s	56 **17**	5	White tower; 26.	
11836 *M 5201*	No Se.	32° 48.2′ N 129° 43.8′ E	**Mo.(A)G.** period 8s	62 **19**	5	PORT (B) G, tower, topmark; 52.	
11840 *M 5207*	O-Hiki Sima, O Se.	32° 52.7′ N 129° 32.6′ E	**Fl.W.** period 4s	52 **16**	5	White round concrete tower; 39.	
11844 *M 5209*	Nezumi Se.	32° 56.5′ N 129° 37.7′ E	**Q.(6)+L.Fl.W.** period 15s	49 **15**	5	S. CARDINAL YB, tower, topmark; 36.	
11848 *M 5208.4*	Seto Ko, N. breakwater, S.	32° 56.4′ N 129° 38.1′ E	**Fl.(2)G.** period 6s	39 **12**	3	White tower; 26.	
11852 *M 5208*	-Breakwater, head.	32° 55.9′ N 129° 38.0′ E	**Fl.(2)R.** period 6s	46 **14**	5	Red tower; 33.	
11856 *M 5207.6*	Kashira Shima.	32° 54.8′ N 129° 38.3′ E	**Fl.W.** period 3s	62 **19**	5	White tower; 49.	
11859 *M 5209.2*	Matusima Ko.	32° 56.4′ N 129° 37.0′ E	**Fl.R.** period 3s	29 **9**	4	Red tower; 20.	
11859.5 *M 5209.3*	Matsushima Channel, shoal.	32° 56.7′ N 129° 37.2′ E	**Q.W.**	36 **11**	3	N. CARDINAL BY, beacon, topmark; 26.	
11860 *M 5209.5*	Matsu Shima, breakwater, head.	32° 57.0′ N 129° 36.2′ E	**F.Fl.R.** period 4s	43 **13**	F. 5 Fl. 8	Red round concrete tower; 26.	
11868 *M 5233*	Ta Shima.	33° 00.0′ N 129° 49.0′ E	**Fl.W.** period 3s	102 **31**	8	White round concrete tower; 36.	
11870 *M 5213*	Tsushima Suido Bridge.	33° 02.2′ N 129° 38.5′ E	**F.W.**	118 **36**	6		F.R. 36m 4M and F.G. 36m 4M mark either side of navigable channel.
11872 *M 5210*	Kabuto Shima.	33° 00.8′ N 129° 37.8′ E	**Fl.W.** period 3s	78 **24**	5	White tower; 26.	
11900 *M 5211*	Mitoko Shima.	33° 00.6′ N 129° 32.2′ E	**Iso.W.** period 6s	157 **48**	5	White round concrete tower; 36.	Auxiliary light F.W. illuminates white beacon on reef 250 meters W.
11904 *M 5225*	Eno Shima.	33° 00.1′ N 129° 21.2′ E	**Fl.G.** period 3s	62 **19**	5	White tower; 30.	
11906 *M 5224.5*	Yoko Sone.	32° 57.6′ N 129° 20.7′ E	**Q.(6)+L.Fl.W.** period 15s	75 **23**	5	S. CARDINAL YB, tower, topmark; 75.	**Radar reflector.**
11908 *M 5226*	Huku Se, on rock.	33° 04.6′ N 129° 26.7′ E	**Fl.(2)W.** period 5s	72 **22**	5	ISOLATED DANGER BRB, tower, topmark; 79.	
11912 *M 5230*	Shira Se, islet at entrance to Sasebo Wan.	33° 05.6′ N 129° 37.6′ E	**Fl.W.R.** period 4s	59 **18**	8	White round concrete tower; 23.	R. 266°-086°, covering the dangers Kanise and Nakano Se, W.-266°.
11916 *M 5232.4*	Hario Seto.	33° 03.6′ N 129° 45.1′ E	**Fl.W.** period 3s	52 **16**	3	White tower; 26.	

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			JAPAN-KYUSHU				
11920 *M 5232*	**Kogo Zaki.**	33° 06.1′ N 129° 40.0′ E	**Fl.W.** period 6s	210 **64**	**21**	White tower; 49.	Traffic signals.
	SASEBO KO:						
11921 *M 5236.7*	-Fairway, No 2.	33° 06.2′ N 129° 41.7′ E	**Fl.R.** period 3s	26 **8**	4	STARBOARD (B) R, beacon, topmark.	**Radar reflector.**
11922 *M 5236.8*	--No 3.	33° 06.7′ N 129° 42.7′ E	**Fl.(2)G.** period 6s	23 **7**	4	PORT (B) G, beacon, topmark.	**Radar reflector.**
11923 *M 5236.9*	--No 4.	33° 06.4′ N 129° 42.9′ E	**Fl.(2)R.** period 6s	23 **7**	4	STARBOARD (B) R, beacon, topmark.	**Radar reflector.**
11924 *M 5236.5*	-Hanare Shoal.	33° 05.6′ N 129° 43.1′ E	**Q.(9)W.** period 15s	33 **10**	4	W. CARDINAL YBY, beacon, topmark; 33.	
11928 *M 5236*	-Benten Shima.	33° 08.7′ N 129° 42.9′ E	**Fl.W.** period 3s	62 **19**	5	White metal framework tower; 26.	
11956 *M 5240.48*	Hizen Ohira Se.	33° 10.4′ N 129° 36.6′ E	**Q.W.**	46 **14**	3	N. CARDINAL BY, tower, topmark; 49.	
11956.5 *M 5240.6*	Ainoura Ko, breakwater.	33° 11.6′ N 129° 37.3′ E	**Fl.R.** period 3s	23 **7**	3	Red tower; 16.	
11956.7 *M 5240.65*	-S. breakwater.	33° 10.9′ N 129° 38.5′ E	**Fl.(2)R.** period 6s	39 **12**	4	Red tower; 26.	
11957 *M 5240.44*	Usunoura Ko, N. breakwater.	33° 10.3′ N 129° 35.6′ E	**Fl.R.** period 3s	23 **7**	2	Red tower; 16.	
11958 *M 5240.7*	Kuzyvkusima Wan, breakwater.	33° 10.0′ N 129° 38.5′ E	**Iso.G.** period 8s	30 **9**	5	White tower; 20.	
11960 *M 5240.4*	Ushigakubi, on SW. extremity of Hashira Iwa.	33° 09.7′ N 129° 34.9′ E	**Iso.W.** period 8s	39 **12**	5	White round concrete tower; 36.	
11964 *M 5240.43*	Taka Shima.	33° 10.2′ N 129° 35.4′ E	**Fl.R.** period 3s	29 **9**	3	Red tower; 20.	
11968 *M 5242.2*	Kuro Shima Ko.	33° 08.8′ N 129° 31.7′ E	**Fl.R.** period 3s	25 **8**	4	Red round concrete tower, square base; 20.	
11972 *M 5241*	Simo-Kareki Shima.	33° 12.2′ N 129° 30.2′ E	**Fl.W.** period 3s	121 **37**	5	White square concrete tower; 52.	
11976 *M 5240.46*	Usunoura Ko Kusudomari, E. breakwater.	33° 12.8′ N 129° 34.9′ E	**Fl.R.** period 3s	36 **11**	3	Red round concrete column; 26.	
11980 *M 5242.1*	Tsuyoshi Ko, E. breakwater.	33° 12.6′ N 129° 27.4′ E	**Fl.G.** period 3s	52 **16**	3	White tower; 33.	
11984 *M 5240*	Ogami Sima.	33° 10.7′ N 129° 20.0′ E	**Fl.W.** period 4s	250 **76**	12	White round concrete tower; 39.	
11988 *M 5239.8*	Miyanoura Ko, W. breakwater, head.	33° 11.4′ N 129° 21.2′ E	**Fl.G.** period 3s	31 **9**	3	White tower; 16.	
11992 *M 5239.7*	Shishiki Wan.	33° 11.8′ N 129° 24.1′ E	**Fl.G.** period 3s	43 **13**	3	White tower; 30.	
11994 *M 5239.6*	Hayahuku Ko.	33° 13.8′ N 129° 22.9′ E	**Fl.R.** period 3s	33 **10**	3	Red tower; 16.	
11994.5 *M 5239.65*	Hirado Hayahuku Se.	33° 13.6′ N 129° 23.0′ E	**F.W.**	75 **23**		White tower; 36.	Illuminates reefs 370 meters NW.
12000 *M 5239.12*	-S. breakwater.	33° 21.4′ N 129° 26.2′ E	**Fl.(2)G.** period 6s	30 **9**	4	White tower; 20.	
12002 *M 5239.05*	Ikituki Sima, breakwater.	33° 21.5′ N 129° 26.2′ E	**Fl.(2)R.** period 6s	39 **12**	4	Red tower; 26.	
12004 *M 5238*	Shiomi Saki.	33° 21.3′ N 129° 26.1′ E	**F.W.**	43 **13**		White tower; 39.	F.W., F.R., and F.G. lights mark bridge close SW.

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12008 *M 5239.2*	Ichibiura Ko, N. breakwater.	33° 23.6′ N 129° 26.3′ E	**F.Fl.R.** period 5s	46 **14**	F. 3 Fl. 7	Red round concrete tower; 30.	
12010 *M 5239.15*	-S. breakwater.	33° 23.3′ N 129° 26.2′ E	**Fl.R.** period 3s	36 **11**	4	Red tower; 20.	
12012 *M 5239.5*	Obae Hana.	33° 26.4′ N 129° 25.8′ E	**Iso.W.** period 6s	330 **101**	12	White tower; 36.	
			F.W.				
12014 *M 5239.55*	Nagase Hana.	33° 21.7′ N 129° 24.0′ E	**Fl.W.** period 4s	358 **109**	12	White tower; 30.	
12016 *M 5242.6*	Kawachi Wan, breakwater.	33° 19.5′ N 129° 31.2′ E	**Fl.R.** period 3s	39 **12**	5	Red round concrete tower; 26.	
12020 *M 5242.4*	Aosa Zaki.	33° 19.9′ N 129° 33.7′ E	**Fl.W.** period 4s	33 **10**	10	White round concrete tower, square base; 26.	
12024 *M 5245*	Tabira Ko, S. Breakwater.	33° 21.8′ N 129° 34.4′ E	**F.Fl.R.** period 3s	43 **13**	F. 2 Fl. 5	Red round concrete tower; 30.	
12032 *M 5244*	Ko-Dasuke Se.	33° 21.8′ N 129° 34.1′ E	**Mo.(B)R.** period 8s	28 **9**	3	STARBOARD (B) R, column, topmark; 30.	
12034 *M 5245.5*	Haeno Saki.	33° 22.2′ N 129° 34.1′ E	**Fl.(2)W.** period 6s	28 **9**	5	White structure; 23.	
12036 *M 5246*	Hirado Ko.	33° 22.3′ N 129° 33.5′ E	**Fl.G.** period 3s	30 **9**	7	White round concrete tower; 23.	
12038	Hirado Seto.	33° 22.6′ N 129° 34.1′ E	**Iso.W.** period 6s	24 **7**	4	White tower; 12.	
12040 *M 5250.6*	Usuka Wan Ko, breakwater, head.	33° 22.6′ N 129° 32.3′ E	**F.Fl.R.** period 5s	36 **11**	F. 3 Fl. 7	Red concrete column; 26.	
12044 *M 5248.2*	Hiro Se.	33° 22.9′ N 129° 34.1′ E	**Fl.W.** period 5s	46 **14**	5	White round concrete tower; 23.	
12048 *M 5248*	-Training Wall.	33° 22.8′ N 129° 34.1′ E	**Fl.W.** period 3s	42 **13**	7	White round concrete tower, black bands; 36.	
12052 *M 5250*	Tasuke Ko, outer breakwater, head.	33° 23.4′ N 129° 33.8′ E	**Iso.R.** period 4s	43 **13**	4	Red tower; 26.	
12056 *M 5250.8*	Sakise Hana.	33° 26.3′ N 129° 32.8′ E	**Fl.(2)W.** period 6s	46 **14**	3	White tower; 36.	
12060 *M 5250.9*	Taku Sima, breakwater, head.	33° 25.8′ N 129° 30.9′ E	**Fl.R.** period 3s	30 **9**	4	Red round concrete tower; 20.	
12064 *M 5250.4*	Yoko Shima.	33° 25.3′ N 129° 32.1′ E	**Fl.W.** period 4s	66 **20**	5	White round concrete tower; 39.	
	O SHIMA:						
12068 *M 5253*	-Magari Bana.	33° 28.3′ N 129° 31.3′ E	**Fl.W.** period 4s	39 **12**	11	White tower; 30.	
12070 *M 5253.2*	-Azutiosima Ko.	33° 28.8′ N 129° 31.8′ E	**Iso.R.** period 8s	31 **9**	4	Red tower, 20.	
12072 *M 5252*	-Oshima Ko, Kannoura, breakwater.	33° 28.5′ N 129° 33.4′ E	**Fl.R.** period 3s	43 **13**	3	Red round concrete tower; 26.	
12075 *M 5251.5*	-Onezaka Ko.	33° 29.7′ N 129° 33.3′ E	**Fl.R.** period 3s	29 **9**	3	Red tower; 20.	
12076 *M 5251*	-Nagasaki Bana.	33° 30.6′ N 129° 33.4′ E	**Fl.W.** period 4s	82 **25**	5	White round concrete tower; 33.	
12080 *M 5253.4*	--Umano Kashira Zaki.	33° 28.4′ N 129° 29.9′ E	**Fl.W.** period 5s	151 **46**	3	White tower; 30.	

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12084 *M 5254*	Tsu Saki.	33° 23.9′ N 129° 40.4′ E	**Fl.W.** period 4s	160 **49**	5	White tower; 39.	
12088 *M 5254.95*	Tukinokawa Ko, breakwater.	33° 21.5′ N 129° 43.6′ E	**Fl.R.** period 3s	39 **12**	5	Red round concrete tower; 26.	
12090 *M 5254.97*	Imabuku Ko, breakwater, head.	33° 21.4′ N 129° 45.9′ E	**Fl.(2)R.** period 6s	23 **7**	3		
12092 *M 5254.5*	Uokono Shima.	33° 25.4′ N 129° 42.6′ E	**Fl.(2)W.** period 6s	226 **69**	5	White round concrete tower; 39.	
12098 *M 5254.7*	Takeko Sima.	33° 27.3′ N 129° 45.1′ E	**Fl.G.** period 4s	30 **9**	5	White tower; 20.	
12100 *M 5254.8*	Kai Se.	33° 27.7′ N 129° 44.6′ E	**Fl.W.** period 3s	49 **15**	5	White tower; 39.	
12104 *M 5254.86*	Oteisi Hana.	33° 24.9′ N 129° 45.5′ E	**Fl.W.** period 4s	29 **9**	5	White tower; 20.	
12108 *M 5255*	Kanai Hana.	33° 22.3′ N 129° 47.4′ E	**Fl.W.** period 3s	36 **11**	7	White tower; 30.	
12112 *M 5255.22*	Kugi Shima, breakwater.	33° 19.0′ N 129° 50.2′ E	**Fl.G.** period 3s	39 **12**	5	White round concrete tower; 30.	
12116 *M 5255.24*	Imari Ko.	33° 21.6′ N 129° 49.4′ E	**Fl.W.** period 3s	36 **11**	5	White tower; 26.	
12118 *M 5255.05*	-Outer Harbor, Sea Berth A.	33° 21.1′ N 129° 48.4′ E	**Mo.(U)W.** period 10s	82 **25**	5		Auxiliary light F.W. 3M 180 meters NNW.
12118.1 *M 5255.06*	--Sea Berth B.	33° 21.0′ N 129° 48.5′ E	**Mo.(U)W.** period 10s	28 **8**	5		Auxiliary light F.W. 3M 78 meters NW.
12118.2 *M 5255.07*	--Sea Berth C.	33° 20.9′ N 129° 48.6′ E	**Mo.(U)W.** period 10s	28 **8**	5		Auxiliary light F.W. 3M 70 meters ESE.
12120 *M 5255.23*	-Hatu Saki.	33° 24.9′ N 129° 47.8′ E	**Fl.W.** period 3s	39 **12**	3	White tower; 30.	
12124 *M 5255.1*	Imari Ko Uranosaki, breakwater.	33° 20.4′ N 129° 47.6′ E	**Iso.R.** period 4s	39 **12**	4	Red round concrete tower; 30.	
12136 *M 5255.3*	Hatatsuura Ko, W. breakwater.	33° 22.6′ N 129° 51.9′ E	**Iso.R.** period 4s	39 **12**	4	Red round concrete tower; 30.	
12144 *M 5255.4*	Takakushi Ko Hontei, breakwater.	33° 25.3′ N 129° 49.4′ E	**Fl.G.** period 3s	26 **8**	3	White round concrete tower; 20.	
12148 *M 5255.7*	-W. breakwater.	33° 25.3′ N 129° 49.3′ E	**Fl.R.** period 3s	43 **13**	5	Red tower; 33.	
12152 *M 5255.5*	-Takakushi Ko, S. breakwater.	33° 25.3′ N 129° 49.4′ E	**Fl.R.** period 3s	39 **12**	3	Red tower; 33.	
12154 *M 5255.35*	Imari Hira Se.	33° 24.0′ N 129° 51.0′ E	**Fl.R.** period 4s	26 **8**	5	STARBOARD (B) R, tower, topmark; 20.	
12156 *M 5254.9*	Miya Zaki.	33° 27.1′ N 129° 47.0′ E	**Fl.W.** period 4s	36 **11**	3	White tower; 26.	
12157 *M 5254.91*	-Ake Se.	33° 28.6′ N 129° 46.9′ E	**Fl.(2)W.** period 5s	46 **14**	5	ISOLATED DANGER BRB, beacon, topmark; 16.	
12160 *M 5256*	Muku Sima.	33° 29.3′ N 129° 46.5′ E	**Fl.W.** period 4s	263 **80**	12	White tower; 39.	
12168 *M 5257*	Hizen Madara Shima.	33° 33.8′ N 129° 45.8′ E	**Iso.W.** period 6s	98 **30**	5	White tower; 30.	
12172 *M 5257.1*	-Ko, S. breakwater, head.	33° 33.9′ N 129° 45.9′ E	**Iso.G.** period 4s	42 **13**	4	White tower; 30.	
12176 *M 5257.4*	Chika Saki.	33° 31.1′ N 129° 49.7′ E	**Iso.W.** period 10s	85 **26**	5	White round concrete tower; 30.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			JAPAN-KYUSHU				
12180 *M 5268*	Hado Saki.	33° 33.3′ N 129° 50.8′ E	**Fl.W.** period 5s	69 **21**	12	Round concrete tower; 43.	
12184 *M 5265.6*	Kakara Shima, breakwater.	33° 35.2′ N 129° 51.6′ E	**Iso.G.** period 4s	31 **9**	4	White round concrete structure; 20.	
12188 *M 5265.65*	-Kakara Shima.	33° 35.4′ N 129° 51.8′ E	**F.W.**	197 **60**		White square structure; 20.	Illuminates beacon on Hutame Se 650 meters SE. from light.
12192 *M 5265.4*	Ogawashima Ko, W. breakwater.	33° 35.6′ N 129° 53.9′ E	**Fl.G.** period 3s	36 **11**	3	White round concrete tower; 26.	
12193.5 *M 5266.45*	Entrance breakwater, E. side.	33° 33.0′ N 129° 52.0′ E	**Fl.R.** period 3s	43 **13**	4	Red tower; 30.	
12194 *M 5266.5*	Yobuko Ko, Ko Sima, breakwater.	33° 32.8′ N 129° 52.1′ E	**Fl.G.** period 3s	30 **9**	5	Green tower; 23.	
12196 *M 5267*	-Nagoya, breakwater.	33° 32.3′ N 129° 52.7′ E	**F.Fl.R.** period 5s	36 **11**	F. 1 Fl. 3	Red tower; 26.	
12204 *M 5266.4*	-E. side, S. breakwater, head.	33° 33.1′ N 129° 53.7′ E	**F.Fl.G.** period 3s	33 **10**	F. 2 Fl. 5	White round concrete tower, square base; 26.	
12208 *M 5266.3*	--Detached breakwater, E. head.	33° 33.2′ N 129° 53.7′ E	**Fl.R.** period 3s	33 **10**	4	Red tower; 26.	
12212 *M 5266.35*	--N. breakwater.	33° 33.3′ N 129° 53.6′ E	**Iso.R.** period 4s	36 **11**	4	Red round concrete tower, square base; 30.	
12216 *M 5265.8*	Hizen Tateishi Saki.	33° 34.0′ N 129° 52.9′ E	**Iso.W.** period 6s	102 **31**	5	White tower; 33.	
12220 *M 5265*	Hira Se.	33° 34.9′ N 129° 54.6′ E	**Iso.W.** period 10s	36 **11**	5	White round concrete tower; 26.	
12224 *M 5266.2*	Usu Shima.	33° 33.9′ N 129° 53.8′ E	**Fl.W.** period 3s	36 **11**	5	White tower; 23.	
12226 *M 5266.25*	Kabe Shima.	33° 33.4′ N 129° 53.5′ E	**Fl.R.** period 4s	33 **10**	3	Red tower; 16.	
12228 *M 5266*	Taka Shima.	33° 33.6′ N 129° 54.2′ E	**Fl.(3)W.** period 13s	180 **55**	10	White round concrete tower; 36.	
12232 *M 5269.02*	Kashiwa Jima, Ko Miya Saki	33° 32.3′ N 129° 57.9′ E	**Iso.W.** period 6s	42 **13**	4	White tower; 39.	
12236 *M 5269.04*	-Breakwater.	33° 32.2′ N 129° 58.0′ E	**Iso.R.** period 6s	36 **11**	4	Red tower; 26.	Visible 204°-109°.
12240 *M 5269*	Mese Hana.	33° 31.7′ N 129° 57.4′ E	**Fl.W.** period 3s	118 **36**	3	White tower; 26.	
12244 *M 5269.06*	Minatohama Ko.	33° 31.5′ N 129° 57.5′ E	**F.Fl.R.** period 5s	43 **13**	F. 1 Fl. 3	Red round concrete tower, square base; 26.	
12248 *M 5269.24*	Karatsu Ko, breakwater, W. head.	33° 29.3′ N 129° 57.4′ E	**Fl.(2)G.** period 6s	36 **11**	5	White tower; 30.	
12252 *M 5269.22*	-E. head.	33° 29.1′ N 129° 57.6′ E	**Fl.R.** period 7s	36 **11**	3	Red tower; 30.	
12254 *M 5269.3*	-W. harbor, breakwater, head.	33° 28.8′ N 129° 57.4′ E	**Fl.G.** period 3s	27 **8**	3	White tower; 23.	
12256 *M 5269.2*	Karatsu.	33° 29.0′ N 129° 57.8′ E	**Iso.W.** period 6s	180 **55**	5	White tower; 23.	
12260 *M 5269.5*	Tobo Ko, No 2 breakwater.	33° 28.9′ N 129° 56.4′ E	**Fl.R.** period 6s	32 **10**	3	Red round concrete tower; 26.	
12262 *M 5269.55*	-E. breakwater.	33° 28.9′ N 129° 56.6′ E	**Iso.R.** period 4s	31 **9**	4	Red tower; 20.	
12264 *M 5269.7*	-E. Harbor, W. breakwater.	33° 28.2′ N 129° 58.4′ E	**Fl.(2)R.** period 8s	36 **11**	5	Red round concrete tower; 30.	

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			JAPAN-KYUSHU				
12268 *M 5269.62*	--E. breakwater.	33° 28.1′ N 129° 58.5′ E	**Fl.(2)G.** period 8s	36 **11**	4	White round concrete tower, square base; 30.	
12276 *M 5262*	Eboshi Jima.	33° 41.4′ N 129° 59.0′ E	**Fl.W.** period 6s	184 **56**	12	White round concrete tower; 52.	
12280 *M 5269.8*	Iso Saki, breakwater.	33° 30.5′ N 130° 05.3′ E	**Fl.(2)R.** period 6s	43 **13**	5	Red tower; 30.	
12283 *M 5269.95*	Hime Shima, breakwater, head.	33° 34.0′ N 130° 03.2′ E	**Fl.R.** period 3s	30 **9**	3	Red tower; 16.	
12284 *M 5269.96*	Tikuzen No Se.	33° 34.1′ N 130° 05.3′ E	**Mo.(A)G.** period 8s	49 **15**	3	PORT (B) G, tower, topmark; 46.	
12286 *M 5270.15*	Keya Ko.	33° 35.3′ N 130° 06.4′ E	**Iso.G.** period 6s	30 **9**	4	White tower; 20.	
12288 *M 5269.94*	Kishi Ko, breakwater, head.	33° 34.3′ N 130° 07.2′ E	**Fl.G.** period 3s	36 **11**	7	White round concrete tower, square base; 30.	
12292 *M 5269.92*	Tikuzen Hunakosi Ko, W. breakwater.	33° 33.3′ N 130° 07.6′ E	**Fl.(2)G.** period 6s	39 **12**	5	White round concrete tower; 30.	
12296 *M 5269.9*	Kamuri Ko, W. breakwater.	33° 33.0′ N 130° 09.5′ E	**Fl.(2)R.** period 6s	36 **11**	5	Red round concrete tower; 30.	
12300 *M 5270.2*	Nogita Ko, W. breakwater.	33° 36.8′ N 130° 09.6′ E	**Fl.(2)G.** period 8s	36 **11**	7	White round concrete tower; 30.	
12304 *M 5270*	Todai Se.	33° 39.4′ N 130° 07.3′ E	**Fl.(2)W.** period 5s	43 **13**	5	ISOLATED DANGER BRB, beacon, topmark; 39.	
12308 *M 5270.4*	Nagama Syo.	33° 42.1′ N 130° 09.0′ E	**Q.W.**	43 **13**	5	N. CARDINAL BY, tower, topmark; 36.	
12312 *M 5270.3*	Nishinoura, breakwater, head.	33° 39.1′ N 130° 12.3′ E	**Fl.G.** period 3s	53 **16**	3	White round concrete tower; 30.	
12316 *M 5271*	Nishima Misaki.	33° 40.0′ N 130° 12.6′ E	**Fl.W.** period 6s	249 **76**	12	White round concrete tower, square base; 30.	
12320 *M 5272*	**Genkai Jima.**	33° 41.5′ N 130° 14.1′ E	**Fl.W.** period 15s	259 **79**	**19**	White round concrete tower; 36.	Visible 121°-318°.
12324 *M 5272.4*	-Breakwater.	33° 40.9′ N 130° 14.3′ E	**Fl.(2)R.** period 7s	46 **14**	5	Red tower; 36.	
12328 *M 5270.6*	Kurinokami Sho.	33° 48.1′ N 130° 15.9′ E	**Fl.(2)W.** period 5s	56 **17**	5	ISOLATED DANGER BRB, tower, topmark; 49.	
12332 *M 5284.4*	Aino Shima.	33° 45.7′ N 130° 21.6′ E	**Iso.W.** period 6s	285 **87**	5	White tower; 33.	
12336 *M 5284*	Tikuzen Aino Shima Ko, S. breakwater, head.	33° 45.4′ N 130° 22.0′ E	**Fl.G.** period 3s	36 **11**	3	White tower; 30.	
12338 *M 5274.5*	Hiro Ko.	33° 40.1′ N 130° 17.4′ E	**Fl.G.** period 3s	31 **9**	3	White tower; 16.	
12340 *M 5273*	Karatomari Ko, No 1 breakwater.	33° 38.4′ N 130° 13.9′ E	**Fl.R.** period 3s	33 **10**	5	Red round tower; 20.	
12344 *M 5276*	Nokono Shima.	33° 38.3′ N 130° 18.2′ E	**Iso.W.** period 6s	102 **31**	12	White square concrete tower; 39.	
12346 *M 5275.2*	Shike Shima Ko, breakwater.	33° 39.5′ N 130° 18.7′ E	**Fl.R.** period 3s	27 **8**	4	Red tower; 20.	
12348 *M 5275*	-W. breakwater.	33° 39.6′ N 130° 18.8′ E	**Iso.G.** period 6s	36 **11**	5	White round concrete tower, square base; 26.	
12352 *M 5275.4*	Sika Shima, N. breakwater.	33° 39.9′ N 130° 19.1′ E	**Fl.R.** period 3s	33 **10**	5	Red round concrete tower, square base; 20.	Breakwater extends NW. to shore.
12356 *M 5279*	Ha Shima.	33° 38.6′ N 130° 20.2′ E	**Fl.W.** period 3s	36 **11**	5	White tower; 30.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			JAPAN-KYUSHU				
	HAKATA KO:						
12360 *M 5282*	-W. detached breakwater, N. head.	33° 37.1′ N 130° 22.9′ E	**Fl.R.** period 3s	56 **17**	7	Red tower; 62. Floodlit.	Several lights shown from piers in the harbor.
12364 *M 5282.2*	-W. breakwater.	33° 36.0′ N 130° 23.0′ E	**Fl.G.** period 4s	27 **8**	9	White square concrete tower; 26.	
12368 *M 5282.4*	-S. breakwater.	33° 36.4′ N 130° 22.7′ E	**F.Fl.R.** period 4s	36 **11**	F. 6 Fl. 10	Red tower; 30.	
12382 *M 5282.52*	-Aratu Ohasi.	33° 36.0′ N 130° 23.0′ E	**Iso.W.** period 4s	135 **41**	8		Marks center of span.
12384 *M 5282.53*	--E. side.	33° 36.0′ N 130° 23.1′ E	**Iso.G.** period 4s	135 **41**	6		
12388 *M 5282.51*	--W. side.	33° 36.0′ N 130° 23.0′ E	**Iso.R.** period 4s	132 **40**	6		
12390 *M 5283*	Nata Ko.	33° 41.8′ N 130° 24.2′ E	**Fl.G.** period 3s	36 **11**	3	White tower; 16.	
12392 *M 5288*	**O Shima.**	33° 54.6′ N 130° 24.5′ E	**Fl.(2)W.** period 20s	167 **51**	**19**	White square concrete tower; 36.	Visible 033°-249°.
12396 *M 5289*	-E. breakwater.	33° 53.8′ N 130° 26.3′ E	**Fl.R.** period 3s	36 **11**	3	Red round concrete tower, square concrete base; 26.	
12400 *M 5289.2*	-S. breakwater.	33° 53.7′ N 130° 26.2′ E	**Iso.R.** period 6s	23 **7**	5	Red tower; 20.	
12404 *M 5289.8*	Kurara Se.	33° 55.2′ N 130° 28.6′ E	**Fl.W.** period 3s	92 **28**	5	White tower; 30.	
12408 *M 5291*	Kanesaki Ko.	33° 52.9′ N 130° 31.6′ E	**Fl.(2)G.** period 6s	40 **12**	7	White tower; 30.	
12412 *M 5290*	Ku Zaki, breakwater, head.	33° 51.3′ N 130° 29.1′ E	**Fl.R.** period 4s	36 **11**	7	Red round concrete tower, square base; 26.	
12416 *M 5285*	Tsuyazaki Hana.	33° 47.2′ N 130° 26.9′ E	**Fl.W.** period 4s			White round concrete tower; 30.	F.W. light illuminates reef 600 meters S.
12420 *M 5286*	-Breakwater.	33° 47.1′ N 130° 27.4′ E	**Fl.R.** period 3s	39 **12**	5	Red tower; 30.	
12424 *M 5291.4*	Hatsu Saki, breakwater, head.	33° 53.2′ N 130° 34.1′ E	**Fl.R.** period 3s	46 **14**	5	Red tower; 30.	
			JAPAN-KYUSHU-OUTLYING ISLANDS				
12428 *M 5291.5*	Ashiya, AVIATION LIGHT.	33° 53.0′ N 130° 39.9′ E	**Al.Fl.W.G.** period 5s	203 **62**	W. 8 G. 6	Metal framework tower.	
12430 *M 5291.55*	-Outer breakwater, W. head.	33° 53.9′ N 130° 38.9′ E	**Fl.G.** period 3s	43 **13**	6	Green tower; 33.	
12432 *M 5291.6*	Kashiwabaru Ko, W. breakwater.	33° 54.6′ N 130° 39.6′ E	**Fl.(2).R.** period 6s	39 **12**	3	Red tower; 30.	
12436 *M 5292*	Myoken Saki.	33° 56.2′ N 130° 41.0′ E	**Oc.(2)W.** period 12s lt. 2s, ec. 2s lt. 6s, ec. 2s	85 **26**	5	White tower; 33.	
12438 *M 5293*	Yawata Saki.	33° 56.0′ N 130° 43.8′ E	**Fl.R.** period 4s	43 **13**	5	Red tower; 26.	
12439 *M 5295*	-Breakwater, W. head.	33° 57.3′ N 130° 46.5′ E	**Fl.(2)G.** period 6s	43 **13**	7	White tower; 30.	
12439.5 *M 5295.5*	--E. head.	33° 57.4′ N 130° 46.1′ E	**Fl.(2)R.** period 6s	43 **13**	5	Red tower; 30.	

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12440 *M 5076*	**Okino Shima.**	34° 14.6′ N 130° 06.4′ E	**Al.Fl.W.R.** period 30s	830 **253**	**17**	White tower; 66.	
12446 *M 5078*	Okino Sima, S. approach.	34° 14.2′ N 130° 06.3′ E	**Fl.G.** period 3s	42 **13**	3	White tower; 20.	
12452 *M 5263*	Oro Shima, W. breakwater.	33° 51.7′ N 130° 02.1′ E	**Fl.G.** period 4s	56 **17**	7	White round concrete tower; 33.	
12456 *M 5070*	Kamiagata.	34° 33.9′ N 129° 17.3′ E	**Oc.(3)W.** period 16s	443 **135**	14	White tower; 39.	
12460 *M 5070.32*	Ina ko, W. breakwater.	34° 33.4′ N 129° 18.8′ E	**F.Fl.G.** period 3s	36 **11**	F. 2 Fl. 5	White tower; 30.	
12462 *M 5070.3*	-Breakwater, head.	34° 33.9′ N 129° 18.3′ E	**Iso.R.** period 6s	33 **10**	5	Red tower; 20.	
12464 *M 5070.4*	Nita Wan, S. approach.	34° 31.2′ N 129° 18.7′ E	**F.W.**	308 **94**		White concrete column; 30.	
12468 *M 5070.5*	Tsuyanagi.	34° 30.7′ N 129° 18.1′ E	**Fl.R.** period 4s	43 **13**	4	Red tower; 33.	
12472 *M 5069.4*	**So Saki.**	34° 38.8′ N 129° 19.3′ E	**Fl.W.** period 5s	276 **84**	**23**	White tower, two red bands; 36.	Visible 020°30′-252°30′.
12476 *M 5069*	-Sasuna Ko, entrance.	34° 38.6′ N 129° 23.1′ E	**F.Fl.G.** period 3s	36 **11**	F. 2 Fl. 5	White tower; 33.	
12477 *M 5069.2*	Nisituya Ko.	34° 39.9′ N 129° 24.3′ E	**Fl.G.** period 3s	27 **8**	3	White tower; 20.	
12478	-Wani Ura RAMARK	34° 41.1′ N 129° 25.6′ E					
12480 *M 5068.4*	-Waniura Ko, N. breakwater, head.	34° 41.8′ N 129° 26.3′ E	**Fl.R.** period 3s	39 **12**	4	Red tower; 26.	
12484 *M 5068*	-Mitsu Shima, island, off N. head.	34° 43.5′ N 129° 26.7′ E	**Fl.W.** period 15s	76 **23**	14	White tower; 46.	Visible 051°-314°.
12488 *M 5067*	Oki-No-Siine Shima.	34° 42.3′ N 129° 27.8′ E	**Fl.W.** period 4s	62 **19**	8	White round concrete tower; 33.	
12492 *M 5065*	Shitasaki.	34° 41.0′ N 129° 29.6′ E	**Iso.W.** period 6s	75 **23**	5	White tower; 30.	F.W. light illuminates reef 340 meters ENE.
12496 *M 5058*	-Jodo Zaki.	34° 38.7′ N 129° 29.5′ E	**Fl.W.** period 3s	85 **26**	7	White round concrete tower, square base; 26.	
12500 *M 5062*	Ikatsuti Saki.	34° 39.1′ N 129° 28.8′ E	**Fl.R.** period 3s	36 **11**	3	Red tower; 30.	
12504 *M 5060*	Nishitomari Wan, range, front.	34° 39.0′ N 129° 28.0′ E	**F.Y.**	194 **59**	11	White square concrete tower, square base, white triangular daymark point up; 39.	
12508 *M 5060.1*	-Rear, about 113 meters 299° from front.	34° 39.4′ N 129° 28.2′ E	**F.Y.**	220 **67**	11	White round concrete tower, white triangular daymark point down; 20.	
12510 *M 5057.9*	Tozyusi Ko, breakwater.	34° 36.9′ N 129° 28.7′ E	**Fl.G.** period 3s	30 **9**	3	White tower; 23.	
12512 *M 5057*	-Kin Wan.	34° 33.1′ N 129° 28.1′ E	**Fl.W.** period 3s	251 **76**	12	White tower; 26.	Visible 195°30′-021°20′.
12516 *M 5057.4*	--W. breakwater, head.	34° 33.1′ N 129° 27.6′ E	**Fl.(2)G.** period 6s	33 **10**	3	White tower; 16.	
12520 *M 5056.9*	-Tusima Hitoe Ko.	34° 31.8′ N 129° 27.2′ E	**Fl.G.** period 3s	39 **12**	4	White tower; 26.	
12524 *M 5056.8*	-Hitoe Wan, E. breakwater	34° 31.7′ N 129° 27.2′ E	**Fl.(2)R.** period 6s	32 **10**	4	Red round concrete tower; 26.	
12528 *M 5056.6*	-Saga Ko, E. breakwater.	34° 27.0′ N 129° 22.5′ E	**F.Fl.R.** period 3s	46 **14**	F. 1 Fl. 3	Red tower; 30.	

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			JAPAN-KYUSHU-OUTLYING ISLANDS				
12532 *M 5056.4*	-Nagasaki Hana.	34° 24.6′ N 129° 23.8′ E	**F.W.**	138 **42**	12	White tower; 33.	Illuminates reef 320 meters NE.
12536 *M 5056*	-Yokoura Wan.	34° 24.1′ N 129° 22.6′ E	**Fl.R.** period 4s	42 **13**	3	Red round concrete tower; 30.	
12540 *M 5052.5*	Orise Hana.	34° 18.0′ N 129° 23.6′ E	**Iso.W.** period 8s	377 **115**	8	White tower; 26.	
12544 *M 5052*	-Kuro Shima.	34° 19.1′ N 129° 24.7′ E	**Fl.W.** period 5s	472 **144**	7	White round concrete tower; 43.	
12548 *M 5053*	-Manzeki-no-Seto, E. entrance.	34° 18.0′ N 129° 21.4′ E	**Oc.G.** period 4s	19 **6**	4	White round concrete tower; 20.	
12552 *M 5054*	--W. entrance.	34° 17.7′ N 129° 21.2′ E	**Oc.G.** period 4s	23 **7**	4	White round concrete tower; 20.	
12556 *M 5051*	-Ohunakosi Ko, S. breakwater, head.	34° 16.5′ N 129° 21.3′ E	**Fl.G.** period 3s	36 **11**	3	White round concrete tower; 30.	
12558 *M 5051.5*	-E. breakwater, head.	34° 16.3′ N 129° 21.4′ E	**Fl.(2)G.** period 6s	36 **11**	5	White round concrete tower; 30.	
12562 *M 5050.5*	-Breakwater.	34° 12.8′ N 129° 18.0′ E	**Oc.G.** period 8s	33 **10**	5	White tower; 20.	
12564 *M 5047*	Yara Zaki.	34° 11.7′ N 129° 17.9′ E	**Iso.W.** period 6s	148 **45**	8	White tower; 20.	
12568 *M 5048.5*	-Izuhara Ko, E. breakwater.	34° 11.7′ N 129° 17.6′ E	**Fl.R.** period 3s	43 **13**	3	Red tower; 30.	
12580 *M 5042*	-Kosaki.	34° 05.1′ N 129° 12.9′ E	**Fl.(2)W.** period 6s	200 **61**	12	White octagonal concrete tower; 36.	Visible 261°-114°.
12582 *M 5040*	-Tuto Ko, breakwater.	34° 06.4′ N 129° 12.7′ E	**Iso.G.** period 6s	46 **14**	4	White tower; 33.	
12584 *M 5039*	-Tsutsu Ko, S. breakwater.	34° 06.7′ N 129° 11.1′ E	**Fl.R.** period 3s	39 **12**	3	Red tower; 16.	
12588 *M 5038*	**-Tutu Saki.**	34° 06.3′ N 129° 10.1′ E	**Fl.W.** period 10s	348 **106**	**25**	White tower; 62.	F.W. illuminates MyoSe 0.6 miles SSW.
12590 *M 5074.6*	--Northward.	34° 10.2′ N 129° 10.6′ E	**F.Fl.G.** period 3s	46 **14**	F. 2 Fl. 5	White tower; 30.	
12596 *M 5074*	-Komoda Ko, W. Training Wall.	34° 13.9′ N 129° 11.3′ E	**Fl.R.** period 3s	43 **13**	3	Red tower; 26.	
12600 *M 5071*	-Mine Ko Sin Saki.	34° 26.9′ N 129° 17.0′ E	**Iso.W.** period 6s	39 **12**	5	White tower; 33.	
12604 *M 5073*	Aso Wan Mizus-aki Zyoko.	34° 20.9′ N 129° 16.1′ E	**Fl.G.** period 3s	39 **12**	5	White tower; 30.	
12608 *M 5072*	Gosaki.	34° 19.9′ N 129° 12.3′ E	**Iso.W.** period 6s	89 **27**	12	White round concrete tower; 26.	
12612 *M 5073.2*	Imo Saki.	34° 19.7′ N 129° 16.0′ E	**Fl.W.** period 3s	43 **13**	8	White round concrete tower; 33.	
12614 *M 5073.3*	Nii Byoti.	34° 21.2′ N 129° 18.1′ E	**Fl.(2)W.** period 5s	26 **8**	5	ISOLATED DANGER BRB, tower, topmark; 23.	
12616 *M 5073.4*	Mezumi Shima.	34° 19.0′ N 129° 18.0′ E	**Iso.W.** period 6s	46 **14**	5	White round concrete tower; 43.	
12620 *M 5073.7*	Kuromi Saki.	34° 17.8′ N 129° 19.5′ E	**Fl.W.** period 3s	95 **29**	5	White round concrete tower; 39.	
12622 *M 5073.6*	-NW. of Takesiki Byoti.	34° 16.9′ N 129° 18.9′ E	**Iso.G.** period 6s	23 **7**	5	White tower; 20.	
12624 *M 5259*	Naga Shima.	33° 43.4′ N 129° 37.8′ E	**Fl.W.** period 4s	161 **49**	12	White square concrete tower; 26.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			JAPAN-KYUSHU-OUTLYING ISLANDS				
12628 *M 5259.2*	Oshima Ko, E. breakwater.	33° 44.2′ N 129° 38.5′ E	**Fl.R.** period 3s	39 **12**	3	Red tower; 30.	
12630 *M 5259.32*	Hunori Se.	33° 44.8′ N 129° 38.4′ E	**Fl.R.** period 4s	42 **13**	5	STARBOARD (B) R, beacon, topmark; 39.	
12632 *M 5259.34*	Iki U Se.	33° 45.2′ N 129° 38.7′ E	**Fl.(2)W.** period 6s	46 **14**	7	White tower; 26.	
12636 *M 5259.38*	Tenaga Shima.	33° 50.0′ N 129° 39.5′ E	**Fl.W.** period 3s	72 **22**	5	White round concrete tower; 30.	
12638 *M 5259.45*	Katumoto Ko, breakwater, S. head.	33° 51.5′ N 129° 40.7′ E	**Fl.G.** period 3s	49 **15**	5	White tower; 33.	
12640 *M 5260*	**Wakamiya Shima.**	33° 52.2′ N 129° 41.2′ E	**Oc.W.** period 8s lt. 6s, ec. 2s	348 **106**	**15**	White tower; 33.	Visible 027°-289°. **Radiobeacon.** **DGPS Station.**
12641 *M 5260.2*	-Approach beacon.	33° 52.4′ N 129° 41.5′ E	**Q.W.**	23 **7**	3	N. CARDINAL BY, beacon, topmark; 23.	
12644 *M 5259.6*	Katsumoto Ko Range No 1, front.	33° 51.8′ N 129° 41.4′ E	**F.Y.**	62 **19**	11	Round concrete tower, white triangular daymark point up; 36.	
12648 *M 5259.61*	-No 1 rear, 60 meters 198° from front.	33° 51.6′ N 129° 41.6′ E	**F.Y.**	79 **24**	11	Round concrete tower, white triangular daymark point down; 33.	
12660 *M 5259.4*	Katsumoto Ko, W. breakwater, head.	33° 51.5′ N 129° 41.5′ E	**Fl.R.** period 3s	39 **12**	3	Red tower; 26.	
12664 *M 5260.4*	Uoturi Saki.	33° 50.6′ N 129° 46.3′ E	**Fl.W.** period 4s	190 **58**	12	White tower; 30.	
12668 *M 5261*	Ashibe Ko.	33° 48.2′ N 129° 45.7′ E	**Iso.W.** period 6s	138 **42**	5	White tower; 26.	
12670 *M 5260.8*	-Breakwater.	33° 49.0′ N 129° 45.8′ E	**Fl.R.** period 3s	43 **13**	3	Red tower; 30.	F.W. light on same structure.
12672 *M 5261.4*	-S. breakwater, head.	33° 48.4′ N 129° 45.6′ E	**Fl.G.** period 3s	43 **13**	3	White round concrete tower; 30.	
12676 *M 5261.3*	-Outer breakwater.	33° 48.4′ N 129° 45.9′ E	**Fl.(2)R.** period 6s	52 **16**	5	Red tower; 33.	
12680 *M 5261.2*	-N. breakwater, head.	33° 48.5′ N 129° 45.6′ E	**Fl.R.** period 3s	43 **13**	3	Red round concrete tower; 30.	
12684 *M 5261.45*	Kanashiro Iwa.	33° 46.0′ N 129° 48.9′ E	**Fl.W.** period 3s	72 **22**	3	White tower; 30.	
12688 *M 5259.25*	Gonovra Ko, N. breakwater, head.	33° 44.5′ N 129° 41.0′ E	**Fl.G.** period 3s	46 **14**	3	White round concrete tower, square base; 30.	
12689 *M 5259.27*	-Breakwater, head.	33° 44.4′ N 129° 40.6′ E	**Fl.R.** period 3s	43 **13**	5	Red tower; 26.	
12689.1 *M 5259.29*	-NW. breakwater.	33° 44.4′ N 129° 40.6′ E	**Iso.G.** period 6s	31 **9**	4	White tower; 20.	
12690 *M 5261.72*	Kuki Ko, breakwater.	33° 44.1′ N 129° 44.2′ E	**Fl.R.** period 3s	33 **10**	4	Red concrete structure; 23.	
12692 *M 5261.5*	Oto Shima.	33° 44.5′ N 129° 47.3′ E	**Iso.W.** period 8s	46 **14**	5	White round concrete tower; 23.	
12697 *M 5261.11*	-Inner breakwater.	33° 44.2′ N 129° 45.3′ E	**Fl.G.** period 3s	46 **14**	3	White tower; 26.	
12698 *M 5261.8*	Go Se, approach to Gonoura Ko.	33° 42.5′ N 129° 41.6′ E	**Fl.W.** period 3s	36 **11**	3	White tower; 26.	
12700 *M 5261.74*	Iruka Saki.	33° 42.3′ N 129° 43.0′ E	**Fl.(2)W.** period 6s	102 **31**	12	White round concrete tower; 33.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			JAPAN-KYUSHU-OUTLYING ISLANDS				
12704 *M 5258*	**Futagami Shima.**	33° 36.3′ N 129° 33.2′ E	**Al.Fl.W.G.** period 20s	325 **99**	**19**	White octagonal concrete tower; 46.	
12708 *M 5265.7*	Kakara Shima.	33° 37.0′ N 129° 51.7′ E	**Fl.W.** period 3s	233 **71**	13	White square concrete structure; 36.	
12712 *M 5261.9*	Na Shima.	33° 44.1′ N 129° 51.5′ E	**Fl.W.** period 5s	105 **32**	8	White tower; 46.	
12716 *M 5017.8*	Tsushimase Hana.	33° 18.0′ N 129° 07.6′ E	**Fl.W.** period 3s	95 **29**	12	White tower; 39.	F.W. light illuminates Tsushima SE. about 380 meters NNE.
	GOTO RETTO:						
12720 *M 5018*	-Koshiki Jima.	33° 18.1′ N 129° 10.2′ E	**Fl.W.** period 3s	230 **70**	5	White round concrete tower; 43.	
12724 *M 5016*	-Kuromo Se.	33° 14.6′ N 129° 11.1′ E	**Fl.W.** period 3s	69 **21**	7	White tower; 30.	
12728 *M 5025*	-Tsuwa Zaki.	33° 09.6′ N 129° 06.8′ E	**Fl.W.** period 3s	391 **119**	5	White round concrete tower, square base; 30.	
12729 *M 5025.5*	-Kuro Se.	33° 09.3′ N 129° 00.4′ E	**Fl.W.** period 3s	36 **11**	3	White tower; 23.	
12732 *M 5022*	-Ojika Shima, Fuefuki Ko.	33° 10.9′ N 129° 03.8′ E	**Fl.G.** period 3s	46 **14**	3	White round concrete tower; 30.	
12736 *M 5024*	--S. breakwater.	33° 11.0′ N 129° 03.8′ E	**Fl.R.** period 3s	33 **10**	3	Red tower; 23.	
12740 *M 5016.4*	-Ai Se.	33° 14.1′ N 129° 05.7′ E	**Fl.W.** period 5s	49 **15**	3	White tower; 33.	
12744 *M 5017.7*	-Nagasaki Hana.	33° 16.3′ N 129° 09.5′ E	**Oc.W.** period 4s	33 **10**	5	White round concrete tower; 26.	
12748 *M 5017.4*	-Taira, breakwater.	33° 15.5′ N 129° 07.9′ E	**Fl.R.** period 3s	39 **12**	4	Red round concrete tower; 26.	
12750 *M 5017.5*	--Detached breakwater, SW. head.	33° 15.3′ N 129° 08.1′ E	**Fl.(2)R.** period 6s	50 **15**	5	Red tower; 30.	
12756 *M 5017.2*	-S. breakwater, head.	33° 15.1′ N 129° 05.6′ E	**Fl.R.** period 3s	36 **11**	3	Red tower; 26.	
12760 *M 5020*	-Madara Shiam, NW. extremity of island.	33° 12.7′ N 129° 00.9′ E	**Iso.W.** period 6s	62 **19**	5	White round concrete tower; 33.	
12764 *M 5026*	**-Shiro Se.**	33° 11.0′ N 128° 48.2′ E	**Fl.W.R.** period 4s	125 **38**	11	White square concrete tower; 23.	R. 041°-063°, W.-251°, R.-264°, W.-041°.
12768 *M 5015.3*	-Maruo, breakwater, head.	33° 00.2′ N 129° 05.7′ E	**Iso.R.** period 6s	43 **13**	4	Red tower; 30.	
12772 *M 5015*	-Mamako Se.	33° 00.1′ N 129° 06.5′ E	**Fl.W.** period 3s	56 **17**	8	White tower; 30.	
12774 *M 5014.5*	-Arikawa Wan, breakwater, head.	32° 59.3′ N 129° 06.4′ E	**Fl.G.** period 3s	32 **10**	3	White tower; 16.	
12776 *M 5014*	-Hirakushi Saki.	32° 59.4′ N 129° 06.9′ E	**Iso.W.** period 6s	115 **35**	4	White tower; 30.	
12780 *M 5013*	-Hira Shima.	33° 00.0′ N 129° 13.4′ E	**Fl.W.** period 3s	177 **54**	5	White tower; 62.	
12784 *M 5013.4*	-Hira Shima Ko, breakwater, head.	32° 59.9′ N 129° 14.1′ E	**Fl.R.** period 3s	56 **17**	4	Red tower; 30.	
12786 *M 5012.8*	Sakiura Ko.	32° 59.8′ N 129° 10.8′ E	**Fl.G.** period 3s	36 **11**	5	White tower; 20.	
12788 *M 5012.6*	-Ota, breakwater.	32° 57.3′ N 129° 09.0′ E	**Iso.G.** period 4s	59 **18**	4	White round concrete tower, 30.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			JAPAN-KYUSHU-OUTLYING ISLANDS				
12792 *M 5011*	-Aino Shima.	32° 55.2′ N 129° 11.1′ E	**Fl.W.** period 5s	82 **25**	8	White tower; 79.	
12796 *M 5012*	-Kanko Shima.	32° 56.1′ N 129° 07.0′ E	**Fl.W.** period 4s	52 **16**	5	White round concrete tower; 20.	
12800 *M 5012.4*	-Ayetsu, breakwater.	32° 56.9′ N 129° 06.7′ E	**Iso.R.** period 6s	39 **12**	4	Red round concrete tower; 30.	
12802 *M 5011.5*	-Arikawa Konoura Ko.	32° 55.5′ N 129° 05.2′ E	**Fl.R.** period 6s	27 **8**	5	Red tower; 16.	
12804 *M 5010.6*	-Hamakusi Ko, S. breakwater.	32° 53.6′ N 129° 05.4′ E	**Fl.R.** period 3s	56 **17**	5	White tower; 33.	
12806 *M 5010.5*	-Narao Ko, breakwater.	32° 53.0′ N 129° 05.3′ E	**Fl.(2)R.** period 6s	49 **15**	3	Red tower; 39.	
12808 *M 5026.6*	-Tuboga Se.	33° 04.4′ N 129° 03.8′ E	**Fl.(2)W.** period 5s	56 **17**	5	ISOLATED DANGER BRB, tower, topmark; 46.	
12812 *M 5027*	-Yagatameno Hana.	33° 02.7′ N 129° 04.1′ E	**Fl.W.** period 3s	131 **40**	5	White tower; 33.	
12816 *M 5027.4*	-Aokata Ko, Itino Se.	32° 59.5′ N 129° 02.4′ E	**Mo.(A)G.** period 8s	46 **14**	5	PORT (B) G, tower, topmark; 36.	
12818 *M 5027.65*	-Breakwater, S. head.	32° 58.7′ N 129° 03.1′ E	**Fl.G.** period 3s	29 **9**	3	White tower; 20.	
12824 *M 5028*	**-Kushi Jima.**	32° 57.6′ N 128° 58.8′ E	**Fl.W.** period 4s	373 **114**	**17**	White round concrete tower, square base; 36.	
12828 *M 5028.4*	-Arifuku Jima.	32° 55.2′ N 128° 55.8′ E	**Fl.W.** period 3s	66 **20**	11	White round concrete structure; 33.	
12832 *M 5009*	-Sao Ko, No 3 breakwater.	32° 49.6′ N 129° 02.8′ E	**Iso.G.** period 4s	46 **14**	4	White round concrete tower; 33.	
12836 *M 5009.6*	-Goto Sao Saki.	32° 48.8′ N 129° 03.8′ E	**Fl.W.** period 3s	73 **22**	12	White tower; 39.	
12844 *M 5010.2*	-Narao Ko, S. breakwater.	32° 50.3′ N 129° 04.0′ E	**Fl.(2)G.** period 6s	49 **15**	3	White tower; 33.	
12848 *M 5010.35*	Ko-narao.	32° 50.9′ N 129° 03.7′ E	**Fl.R.** period 3s	52 **16**	3	Red tower; 30.	Synchronized with 12852.
12852 *M 5010.3*	-Ko-naroa Ko Minami, S. breakwater, head.	32° 50.8′ N 129° 04.0′ E	**Fl.G.** period 3s	72 **22**	3	White tower; 33.	Synchronized with 12848.
12856 *M 5008*	-Takanou Hana.	32° 45.2′ N 129° 00.4′ E	**Iso.W.** period 6s	72 **22**	5	White round concrete tower; 36.	
12860 *M 5010*	-Otona Se.	32° 49.2′ N 129° 05.5′ E	**Fl.(2)W.** period 5s	66 **20**	5	ISOLATED DANGER BRB, tower, topmark; 66.	
12862 *M 5008.2*	Ban-dake.	32° 45.3′ N 128° 58.1′ E	**Fl.G.** period 3s	25 **8**	3	White tower; 16.	
12864 *M 5006*	-Fukue Ko, N. breakwater.	32° 42.0′ N 128° 51.2′ E	**Fl.(2)R.** period 6s	39 **12**	3	Red tower; 30.	Synchronized with 12868.
12868 *M 5006.41*	--S. breakwater, N. head.	32° 42.0′ N 128° 51.4′ E	**Fl.(2)G.** period 6s	46 **14**	4	White tower; 33.	Synchronized with 12864.
12876 *M 5005.7*	-Sakiyama Ko, N. breakwater, head.	32° 39.6′ N 128° 53.4′ E	**Fl.R.** period 3s	42 **13**	3	Red tower; 26.	
12880 *M 5004*	-Tomie Ko, on Okinokuro Se.	32° 37.5′ N 128° 46.8′ E	**Fl.W.** period 5s	36 **11**	8	White tower; 30.	
12884 *M 5005*	--Breakwater, W. head.	32° 37.4′ N 128° 46.4′ E	**Fl.G.** period 3s	33 **10**	4	White round concrete tower; 23.	
12888 *M 5005.4*	--Ohama Ko, S. breakwater.	32° 38.7′ N 128° 48.8′ E	**Fl.R.** period 3s	39 **12**	3	Red tower; 30.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			JAPAN-KYUSHU-OUTLYING ISLANDS				
12890 *M 5002.7*	-Hukue Sima, breakwater.	32° 35.1′ N 128° 45.0′ E	**Fl.R.** period 5s	46 **14**	3	Red tower; 16.	
12892 *M 5002.8*	-Kasayama Saki.	32° 34.4′ N 128° 46.3′ E	**Iso.W.** period 6s	62 **19**	5	White round concrete tower; 36.	F.W. auxiliary light illuminates white post on reefs 230 meters S.
12894 *M 5003.5*	Wakou Ko, S. breakwater, head.	32° 34.8′ N 128° 46.7′ E	**Fl.(2)G.** period 6s	43 **13**	5	White tower; 26.	
12896 *M 5002.6*	-Kurose Ko, S. breakwater, head.	32° 36.2′ N 128° 44.3′ E	**Fl.R.** period 3s	49 **15**	3	Red tower; 30.	
12900 *M 5002.5*	-Daiho Ko, S. breakwater.	32° 35.9′ N 128° 39.5′ E	**Iso.G.** period 6s	43 **13**	4	White tower; 26.	
12904 *M 5002*	-Ose Zoki.	32° 36.8′ N 128° 36.0′ E	**Fl.W.** period 3s	272 **83**	12	White round metal tower; 52.	Visible 301°-175°. **Radiobeacon, DGPS Station,** 741 meters NE.
12908 *M 5034*	-Tamanoura Ko, groin.	32° 38.8′ N 128° 36.9′ E	**Fl.R.** period 3s	36 **11**	3	Red tower; 26.	
12912 *M 5032*	-Tamanoura, Kuro Se.	32° 40.9′ N 128° 38.0′ E	**Fl.W.** period 3s	112 **34**	5	White round concrete tower, square base; 30.	
12916 *M 5033*	Tamanoura Ko.	32° 40.0′ N 128° 39.8′ E	**Fl.W.** period 3s	115 **35**	10	White tower; 26.	
12920 *M 5033.5*	--Breakwater.	32° 40.0′ N 128° 40.0′ E	**Fl.G.** period 3s	43 **13**	3	White round concrete tower, square base; 30.	
12924 *M 5030*	-Kashiwa Zaki.	32° 47.1′ N 128° 39.9′ E	**Fl.W.** period 3s	79 **24**	5	White tower; 49.	
12928 *M 5029.8*	Nagasaki Hana.	32° 45.7′ N 128° 38.5′ E	**Iso.W.** period 6s	72 **22**	12	White square concrete structure.	F.W. light illuminates surface 520 meters W.S.W.
12932 *M 5029.6*	-Miiraku Ko, E. breakwater.	32° 44.8′ N 128° 42.1′ E	**Fl.R.** period 3s	43 **13**	4	Red round concrete tower, square base; 30.	
12934 *M 5029.5*	Mizunoura Ko.	32° 44.9′ N 128° 44.5′ E	**Fl.(2)G.** period 6s	26 **8**	4	White tower; 20.	
12936 *M 5029.4*	-Taketo Shima.	32° 45.7′ N 128° 44.5′ E	**Fl.W.** period 4s	125 **38**	7	White tower; 26.	
12940 *M 5029.2*	-Kishuku Ura Range, front.	32° 45.0′ N 128° 46.0′ E	**F.G.**	33 **10**	8	Concrete column, white rectangular daymark; 26.	
12944 *M 5029.21*	--Rear, 55 meters 196°06′ from front.	32° 45.2′ N 128° 45.9′ E	**F.G.**	56 **17**	8	Concrete column, white rectangular daymark; 30.	
12948 *M 5029*	-Itokushi Bana.	32° 47.8′ N 128° 48.6′ E	**Oc.(2)W.** period 12s lt. 2s, ec. 2s lt. 6s, ec. 2s	351 **107**	12	White round concrete tower; 33.	
			F.W.		**104**		
12952 *M 5008.4*	-Narushima Ko, Mae Shima, N. breakwater.	32° 48.5′ N 128° 56.1′ E	**Iso.R.** period 4s	42 **13**	4	Red tower; 30.	
12956 *M 5008.6*	-Kakarisaki Bana.	32° 49.3′ N 128° 54.9′ E	**Fl.(2)G.** period 6s	69 **21**	8	White round concrete tower; 30.	
			F.W.				Illuminates rock 160 meters SSE.
12960 *M 5008.45*	-Nurosima Ko.	32° 49.0′ N 128° 56.1′ E	**Fl.G** period 3s	39 **12**	3	White tower; 30.	
12968 *M 5007*	-Akahae Bana.	32° 45.0′ N 128° 52.9′ E	**Fl.W.** period 4s	49 **15**	5	White tower; 33.	
12970 *M 5006.55*	-Goto Nyudou Se.	32° 45.0′ N 128° 50.0′ E	**Fl.G.** period 3s	26 **8**	3	PORT (B) G, beacon, topmark; 16.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			JAPAN-KYUSHU-OUTLYING ISLANDS				
12972 *M 5028.6*	-Kurose Hana.	32° 51.7′ N 128° 52.3′ E	**Fl.W.** period 5s	59 **18**	5	White round concrete tower; 30.	
12974 *M 5028.8*	Hisaka Sima.	32° 50.5′ N 128° 50.5′ E	**Fl.R.** period 5s	30 **9**	3	STARBOARD (B) R, beacon, topmark; 30.	
12976 *M 5003*	**O Shima.**	32° 33.7′ N 128° 54.1′ E	**Fl.(2)W.** period 20s	338 **103**	**21**	White square concrete tower; 43.	
12980 *M 4998*	**Me Shima.**	31° 59.5′ N 128° 21.0′ E	**Fl.W.** period 15s	391 **119**	**21**	White octagonal concrete tower; 49.	Visible 215°-162°.
12984 *M 4805*	Ie Shima.	31° 12.1′ N 129° 28.6′ E	**Fl.W.** period 3s	338 **103**	7	White tower; 30.	

Section 8

Ryukyu Islands and Taiwan

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			RYUKYU ISLANDS				
12988 *M 4802*	**Kusagaki Shima.**	30° 51.7′ N 129° 27.9′ E	**Fl.(2)W.** period 20s	459 **140**	**21**	White round concrete tower; 46.	
12990 *M 4804*	**Kuro Shima.**	30° 49.8′ N 129° 57.6′ E	**Al.Fl.(2)W.G.** period 10s	784 **239**	W. **20** G. **21**	White tower; 36.	Visible 125°-351°.
12992 *M 4787*	Satuma.	30° 47.1′ N 130° 16.5′ E	**Fl.W.** period 4s	482 **147**	12	White tower; 39.	
12994 *M 4787.2*	-Breakwater, head.	30° 46.7′ N 130° 16.7′ E	**Fl.R.** period 5s	50 **15**	3	Red tower; 36.	
12996	Mage Sima.	30° 45.9′ N 130° 51.4′ E	**Fl.W.** period 3s	46 **14**	7	White round concrete structure; 39.	
13000 *M 4799*	**Kishika Saki.**	30° 50.1′ N 131° 03.5′ E	**Al.Fl.W.R.** period 14s	226 **69**	**16**		W. 057°-336°, R.-057°.
13002 *M 4798.8*	Nisinoomote Ko.	30° 44.6′ N 130° 58.9′ E	**Fl.(2)R.** period 6s	59 **18**	7	Red tower; 49.	
13004 *M 4796*	Nisinoomote Ko Sonosaki, breakwater.	30° 44.1′ N 130° 59.3′ E	**Fl.G.** period 4s	43 **13**	5	White round concrete tower; 30.	
13016 *M 4798.6*	Nisimo-Omote Ko, S. breakwater.	30° 43.9′ N 130° 59.0′ E	**Fl.R.** period 3s	46 **14**	3	Red tower; 36.	
13020 *M 4794*	Surniyoshi Misaki.	30° 40.2′ N 130° 56.5′ E	**Fl.W.** period 5s	75 **23**	7	White tower; 33.	
13024 *M 4793.5*	Shimana Ko, W. breakwater.	30° 28.2′ N 130° 51.9′ E	**Fl.(2)R.** period 6s	52 **16**	4	Red tower; 33.	
13028 *M 4793*	Shimana Saki.	30° 28.0′ N 130° 51.0′ E	**Iso.W.** period 8s	56 **17**	8	White tower; 36.	
13032 *M 4792*	**Otake Zaki.**	30° 23.1′ N 130° 57.7′ E	**Fl.(2)W.** period 20s	348 **106**	**21**	White round concrete tower; 59.	
13036 *M 4800.4*	Kumano Ko, breakwater.	30° 27.7′ N 130° 57.8′ E	**Fl.R.** period 3s	46 **14**	7	Red round concrete tower; 30.	
13040 *M 4800.6*	Dir. Lt.	30° 27.4′ N 130° 57.7′ E	**Dir.W.R.G.**	92 **28**	W. 10 R. 7 G. 7	White square metal tower; 23.	F.R. 216°12′-237°30′, F.W.-240°30′, F.G.-261°48′. 239° centerline of navigable fairway.
13048 *M 4791.2*	Onoaida.	30° 13.9′ N 130° 33.4′ E	**Fl.W.** period 6s	167 **51**	12	White hexagonal concrete tower; 30.	
13052 *M 4791*	Ambo, outer.	30° 19.2′ N 130° 40.0′ E	**Fl.R.** period 3s	56 **17**	7	Red round concrete tower; 33.	
13060 *M 4790.6*	Miyanoura, N. breakwater.	30° 26.0′ N 130° 34.8′ E	**Fl.(2)R.** period 7s	49 **15**	5	Red tower; 36.	
13064 *M 4790*	**Yahazu Saki.**	30° 28.1′ N 130° 29.9′ E	**Fl.W.** period 10s	144 **44**	**18**	White tower; 36.	Visible 068°-298°.
13068 *M 4790.4*	Isso, N. breakwater.	30° 27.4′ N 130° 29.4′ E	**F.Fl.R.** period 6s	46 **14**	F. 1 Fl. 3	Red tower; 30.	
13072 *M 4788*	**Nagota Misaki.**	30° 23.6′ N 130° 22.8′ E	**Fl.W.** period 15s	236 **72**	**22**	White tower; 66.	Visible 002°-244°.
	RAMARK						
13076 *M 4786.3*	No Saki.	30° 29.2′ N 130° 08.9′ E	**Fl.(2)W.** period 14s	302 **92**	12	White metal tower; 39.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			RYUKYU ISLANDS				
13080 *M 4786*	Kuchinoerabu Ko, breakwater.	30° 27.4′ N 130° 11.6′ E	**Fl.(2)R.** period 7s	43 **13**	5	Red tower; 33.	
13084 *M 4786.6*	Mega Saki.	30° 26.2′ N 130° 15.9′ E	**Fl.(2)W.** period 6s	220 **67**	7	White tower; 33.	
13088 *M 4785*	Osumi Hira Se.	30° 02.5′ N 130° 03.0′ E	**Fl.W.** period 3s		7	White tower; 36.	
13092 *M 4784.5*	Kuti-no-Sima.	29° 59.5′ N 129° 54.8′ E	**Fl.R.** period 3s	56 **17**	7	Red tower; 30.	
13096 *M 4783*	Nakano Shima.	29° 49.4′ N 129° 54.9′ E	**Fl.(3)W.** period 18s	207 **63**	12	White concrete tower; 52.	**DGPS Station.**
13100 *M 4784*	Gaja Shima.	29° 54.7′ N 129° 32.2′ E	**Fl.W.** period 8s	679 **207**	12	White tower; 39.	
13102 *M 4782.95*	**Akuseki Sima.**	29° 27.0′ N 129° 36.9′ E	**Al.Fl.W.G.** period 16s	518 **158**	**22**	White tower; 49.	Visible 177°-027°.
13104 *M 4782.8*	Takara Shima.	29° 07.7′ N 129° 13.2′ E	**Fl.W.** period 10s	236 **72**	12	White square concrete tower; 52.	
13108 *M 4782.9*	-Maegomori Ko, breakwater.	29° 09.6′ N 129° 12.5′ E	**Fl.G.** period 3s	52 **16**	5	Red round concrete tower; 30.	
13112 *M 4782*	**Tonbi Saki.**	28° 22.2′ N 130° 01.7′ E	**Fl.W.** period 5s	135 **41**	**18**	White round concrete tower; 62.	
13114 *M 4782.2*	Somati Gyoko, breakwater.	28° 19.8′ N 130° 00.6′ E	**Fl.R.** period 5s	62 **19**	5	Red tower; 39.	
13116 *M 4782.4*	Shitsuru Saki.	28° 17.0′ N 129° 56.9′ E	**Fl.W.** period 3s	164 **50**	12	White tower; 43.	
13120 *M 4782.61*	Wan Ko.	28° 19.8′ N 129° 56.1′ E	**Fl.G.** period 4s	59 **18**	7	White tower; 39.	
13124 *M 4782.5*	Akara Ko Range, front.	28° 19.4′ N 129° 56.3′ E	**F.R.**	39 **12**	6	White concrete column, white triangular daymark point up; 33.	
13128 *M 4782.51*	-Rear, 500 meters 156°42′ from front.	28° 19.1′ N 129° 56.4′ E	**F.R.**	102 **31**	6	White concrete column, white triangular daymark point down; 30.	
13132 *M 4767*	**Kasari Saki.**	28° 31.8′ N 129° 41.4′ E	**Fl.W.** period 15s	197 **60**	**20**	White square concrete tower; 43.	Visible 079°-335°.
13134 *M 4767.8*	Akakina Ko Range, front.	28° 26.6′ N 129° 39.7′ E	**F.Y.**	43 **13**	8	White tower, white triangular daymark point up; 39.	
13134.1 *M 4767.81*	-Rear, 184° from front.	28° 26.4′ N 129° 39.8′ E	**F.Y.**	79 **24**	8	White tower, white triangular daymark point down; 20.	
13140 *M 4767.6*	Imai Zaki.	28° 28.6′ N 129° 37.3′ E	**Fl.(2)W.** period 7s	249 **76**	12	White tower; 33.	
13144 *M 4768*	Borose Saki.	28° 26.7′ N 129° 31.4′ E	**L.Fl.W.** period 10s	374 **114**	5	White tower; 36.	
13148 *M 4770*	Tategami, entrance to Nasa Ko, W. side.	28° 24.5′ N 129° 29.9′ E	**Fl.(2)W.** period 6s	128 **39**	8	White round concrete tower; 30.	
13148.5 *M 4770.4*	-Breakwater, head.	28° 24.4′ N 129° 30.2′ E	**Fl.R.** period 3s	33 **10**	3	Red tower; 16.	
13150 *M 4771*	Naze Ko.	28° 24.0′ N 129° 30.0′ E	**Fl.R.** period 4s	42 **13**	3	Red tower; 36.	
13151 *M 4771.5*	-E. breakwater.	28° 24.0′ N 129° 30.2′ E	**Fl.G.** period 4s	43 **13**	5	White round concrete tower; 36.	
13168 *M 4778*	Oyama Zaki.	28° 21.9′ N 129° 20.5′ E	**Fl.W.** period 5s	620 **189**	12	White tower; 33.	
13172 *M 4780*	**Satsuko Saki.**	28° 15.3′ N 129° 08.2′ E	**Fl.W.** period 15s	459 **140**	**21**	White tower; 52.	Visible 323°-233°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			RYUKYU ISLANDS				
13176 *M 4780.5*	Onensaki.	28° 12.3′ N 129° 14.8′ E	**Fl.W.** period 5s	118 **36**	7	White tower; 30.	
13180 *M 4780.6*	Seto Saki.	28° 09.0′ N 129° 17.8′ E	**Fl.(2)W.** period 6s	135 **41**	5	White tower; 33.	
13184 *M 4780.7*	Koniya Ko, breakwater.	28° 08.7′ N 129° 18.8′ E	**Iso.R.** period 6s	23 **7**	5	Red tower; 20.	
13188 *M 4781.5*	Machiami Saki.	28° 07.1′ N 129° 20.5′ E	**Fl.W.** period 3s	59 **18**	5	White concrete tower; 30.	
13192 *M 4781*	Kaitsu Saki.	28° 06.7′ N 129° 22.6′ E	**Fl.W.** period 6s	335 **102**	12	White round concrete tower; 26.	
	TOKUNO SHIMA:						
13196 *M 4766.5*	-Kanami Saki.	27° 53.5′ N 128° 58.2′ E	**Fl.W.** period 3s	141 **43**	12	White tower; 36.	F.W. light illuminates Tombara Iwa about 2 miles NNE.
13200 *M 4766.7*	Kametoku Ko, S. breakwater.	27° 44.3′ N 129° 01.7′ E	**Fl.G.** period 4s	59 **18**	5	White round concrete tower; 46.	
13204 *M 4766.8*	Kametoku Range, front.	27° 44.3′ N 129° 01.4′ E	**F.Y.**	56 **17**	8	White round concrete tower, white triangular daymark point up; 49.	Visible 274°-292°.
13208 *M 4766.81*	-Rear, 130 meters 283° from front.	27° 44.3′ N 129° 01.3′ E	**F.Y.**	72 **22**	8	White round concrete tower, white triangular daymark point up; 49.	Visible 274°-292°.
13212 *M 4765.6*	Kinen Saki.	27° 40.2′ N 128° 59.1′ E	**Fl.(2)W.** period 7s	72 **22**	12	White tower; 46.	
13216 *M 4765.8*	Hetono Ko, jetty.	27° 48.8′ N 128° 53.6′ E	**Fl.G.** period 3s	46 **14**	5	White tower; 23.	
13220 *M 4766*	Yon ama Saki.	27° 52.9′ N 128° 53.5′ E	**Fl.(2)W.** period 10s	177 **54**	12	White tower; 52.	
	OKINO-ERABU SHIMA:						
13224 *M 4765.4*	**-Kunigami Saki.**	27° 26.0′ N 128° 42.6′ E	**Fl.W.** period 5s	131 **40**	**17**	White round concrete tower; 62.	Visible 097°-049°30′. **Aero Radiobeacon.**
13228 *M 4765.34*	Wadomari Ko Range, front.	27° 24.0′ N 128° 40.0′ E	**F.R.**	56 **17**	7	White concrete column, triangular daymark point up; 23.	
13232 *M 4765.35*	-Rear, 282°48′ from front.	27° 23.9′ N 128° 39.6′ E	**F.R.**	69 **21**	7	White concrete column, triangular daymark point up; 33.	
13236 *M 4765.3*	Tina Ko, wharf.	27° 19.8′ N 128° 34.0′ E	**F.W.R.G.**	105 **32**	W. 13 R. 7 G. 7	White round concrete tower; 43.	R. 014°18′-022°18′, W.-029°48′, G.-037°48′.
13240 *M 4765.2*	Yakuniya Saki.	27° 24.2′ N 128° 32.2′ E	**Fl.(2)W.** period 7s	236 **72**	12	White tower; 52.	
13242 *M 4765.5*	-Inobe Ko Range, front.	27° 24.6′ N 128° 38.8′ E	**F.Y.**	75 **23**	8	White tower, white triangular daymark point up; 52.	
13242.1 *M 4765.51*	--Rear, 151° from front.	27° 24.9′ N 128° 38.6′ E	**F.Y.**	98 **30**	8	White tower, white triangular daymark point up; 43.	
	YORON JIMA:						
13244 *M 4763.8*	-Aka Saki.	27° 01.5′ N 128° 27.4′ E	**Fl.W.** period 4s	75 **23**	12	White tower; 46.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			RYUKYU ISLANDS				
13246 *M 4763.9*	Yoron Ko.	27° 02.4′ N 128° 24.1′ E	**Dir.W.R.G.**	69 **21**	W. 13 R. 10 G. 11	White tower; 30.	F.R. 357°30′-359°, F.W.-001°, F.G.-002°30′.
			Oc.Y. period 4s lt. 3s, ec. 1s	79 **24**	10		
13248 *M 4764*	Hanebu Saki.	27° 03.0′ N 128° 23.9′ E	**Fl.(2)W.** period 7s	65 **20**	12	White tower, two red bands; 30.	
13252 *M 4764.4*	Yoron Ko Range, front.	27° 03.0′ N 128° 25.0′ E	**F.G.**	46 **14**	8	White round metal tower, white triangular daymark point up; 33.	Visible 125°42'-139°42'.
13256 *M 4764.41*	-Rear, 45 meters 132°42′ from front.	27° 02.8′ N 128° 24.6′ E	**F.G.**	62 **19**	8	White round metal tower, white triangular daymark point up; 30.	Visible 1252°42'-139°42'.
13260 *M 4765*	**Dana Misaki.**	27° 05.5′ N 128° 01.2′ E	**Fl.W.** period 12s	377 **115**	**21**	White round concrete tower; 49.	
13261 *M 4765.05*	Maedomari Ko.	27° 02.0′ N 127° 58.2′ E	**Fl.G.** period 3s	56 **17**	7	White tower; 39.	
13262 *M 4764.7*	Iheya Gyoko, breakwater, S. head.	27° 01.0′ N 127° 56.7′ E	**Fl.R.** period 3s	33 **10**	5	Red tower; 20.	
13263 *M 4764.5*	Nakado Ko, breakwater.	26° 55.6′ N 127° 57.3′ E	**Fl.R.** period 3s	60 **18**	7	Red tower; 39.	
	OKINAWA JIMA:						
13264 *M 4763*	-Hedo Misaki.	26° 52.0′ N 128° 14.9′ E	**Fl.W.** period 6s	233 **71**	12	White round concrete tower; 36.	
13266 *M 4763.2*	-Hentona Ko, breakwater.	26° 45.0′ N 128° 10.7′ E	**Fl.G.** period 3s	33 **10**	5	White tower; 20.	
13268 *M 4762.9*	**Setake Saki.**	26° 45.0′ N 128° 19.5′ E	**Fl.W.** period 10s	285 **87**	**24**	White square concrete tower; 49.	
13272 *M 4762.2*	Takabaka Saki.	26° 32.2′ N 128° 05.3′ E	**Fl.(2)W.** period 6s	82 **25**	5	White tower; 33.	
13280 *M 4762.4*	Naga Shima.	26° 31.2′ N 128° 03.7′ E	**Fl.W.** period 3s	85 **26**	5	White tower; 33.	
13282 *M 4761.8*	Kunigami Seaberth, breakwater.	26° 26.3′ N 127° 55.2′ E	**Mo.(U)W.** period 12s	46 **14**	10		
13284 *M 4758*	Mengui Syo, Kin Wan approach.	26° 25.0′ N 128° 01.9′ E	**Q.W.**	39 **12**	5	N. CARDINAL BY, beacon, topmark; 39.	**Radar reflector.**
13290 *M 4761.6*	-Beacon No 4.	26° 25.5′ N 127° 50.2′ E	**Fl.R.** period 4s	16 **5**	1	STARBOARD (B) R, beacon, topmark; 16.	
13292 *M 4761.4*	Ishikawa, breakwater, head.	26° 25.4′ N 127° 51.1′ E	**Mo.(U)W.** period 8s	46 **14**	10		
13296 *M 4759*	Ike Sima.	26° 23.9′ N 127° 59.8′ E	**Fl.(2)W.R.** period 6s	135 **41**	12	White tower; 46.	R. 242°-265°, W.-242°.
13300 *M 4759.2*	Okinawa Sekiyukiti Sea Berth.	26° 23.4′ N 127° 58.5′ E	**Mo.(U)W.** period 15s	135 **41**	10		
13300.5 *M 4759.25*	Okinawa Terminal Sea Berth.	26° 22.7′ N 127° 57.9′ E	**Mo.(U)W.** period 12s	112 **34**	9		
13302 *M 4760*	Kin Wan Offshore Terminal.	26° 22.9′ N 127° 53.4′ E	**Mo.(U)W.** period 8s	49 **15**	10		
13304 *M 4759.4*	Kin Nagakusuku Ko.	26° 21.7′ N 127° 56.3′ E	**Q.(3)W.** period 10s	23 **7**	7	E. CARDINAL BYB, beacon, topmark; 23.	
13304.5 *M 4757.5*	Ikei Sima, S.	26° 22.5′ N 127° 59.9′ E	**Fl.R.** period 3s	18 **5**	3	STARBOARD (B) R, tower, topmark; 16.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			RYUKYU ISLANDS				
13305 *M 4754.7*	Hamahiga Kuti.	26° 20.0′ N 127° 59.8′ E	**Fl.R.** period 3s	18 **5**	3	STARBOARD (B) R, tower, topmark; 16.	
13306 *M 4754.6*	Hamahiga Sa, breakwater.	26° 19.8′ N 127° 57.1′ E	**Fl.G.** period 3s	24 **7**	5	White tower; 20.	
13308 *M 4754*	Katsuren Saki.	26° 17.8′ N 127° 54.9′ E	**Fl.W.** period 6s	200 **61**	5	White square concrete tower; 33.	
13310 *M 4754.8*	-W. detached breakwater, E. head.	26° 18.4′ N 127° 52.1′ E	**Fl.G.** period 3s	42 **13**	5	White tower; 30.	
13310.5 *M 4754.9*	-E. detached breakwater, W. head.	26° 18.5′ N 127° 52.3′ E	**Fl.R.** period 3s	33 **10**	4	Red tower; 20.	
13311	-Small craft basin, W. breakwater, head.	26° 17.9′ N 127° 54.7′ E	**F.G.**	10 **3**	4		
13311.5	--E. breakwater, head.	26° 17.9′ N 127° 54.7′ E	**F.R.**	10 **3**	4		
13313	-Navy Pier, head.	26° 17.7′ N 127° 54.4′ E	**Iso.W.** period 6s	9 **3**	4	White post; 9.	
13316 *M 4752*	Tsuken Jima.	26° 15.0′ N 127° 56.2′ E	**Fl.W.** period 4s	167 **51**	12	White tower; 46.	
13320 *M 4752.4*	-Breakwater, head.	26° 14.7′ N 127° 56.0′ E	**Fl.G.** period 3s	36 **11**	4	White tower; 23.	
13322 *M 4754.5*	Usiziuuse, E. breakwater.	26° 18.5′ N 127° 55.5′ E	**Fl.R.** period 3s	30 **9**	3	Red tower; 16.	
13324 *M 4753*	Hira Sone.	26° 15.8′ N 127° 53.1′ E	**Fl.W.** period 4s	39 **12**	5	White tower; 36.	
13326 *M 4755*	Gusikawa, breakwater, head.	26° 19.5′ N 127° 50.5′ E	**Fl.R.** period 3s	26 **8**	3	Red tower; 20.	
13336 *M 4750.84*	*Nansei Sea Berth Buoy.*	26° 14.2′ N 127° 49.9′ E	**Mo.(U)W.** period 8s	23 **7**	4		
13340 *M 4753.4*	Breakwater, head.	26° 15.8′ N 127° 49.1′ E	**Mo.(U)W.** period 15s	39 **12**	10		
13348 *M 4750.7*	Kin Nanseki.	26° 13.1′ N 127° 47.6′ E	**Mo.(U)W.** period 10s	72 **22**	10	White square metal tower.	Mo.(U)W. 10s 130 meters E. and 150 meters WNW.
13349 *M 4749.5*	Untaku.	26° 11.1′ N 127° 50.7′ E	**Mo.(A)G.** period 8s	16 **5**	3	PORT (B) G, beacon, topmark; 16.	
13352 *M 4750*	China Saki, on shoal.	26° 11.4′ N 127° 49.3′ E	**Fl.W.** period 3s	115 **35**	7	White tower; 36.	
13354 *M 4750.2*	Yonabaru Wan, breakwater.	26° 11.5′ N 127° 48.8′ E	**Fl.G.** period 3s	46 **14**	3	White tower; 31.	
13356 *M 4750.4*	Baten Ko, breakwater, head.	26° 10.8′ N 127° 46.8′ E	**Fl.R.** period 3s	39 **12**	5	Red tower; 33.	
13360 *M 4749*	Kudaka Sima.	26° 09.3′ N 127° 53.1′ E	**Fl(2).W.** period 6s	82 **25**	12	White tower; 36.	
13362 *M 4748.5*	Hira Bishi.	26° 08.7′ N 127° 52.5′ E	**Mo.(B)G.** period 8s	16 **5**	3	PORT (B) G, beacon, topmark; 16.	
13364 *M 4748*	**Kiyan Saki.**	26° 04.8′ N 127° 40.2′ E	**Fl.W.** period 5s	154 **47**	**18**	White tower; 49.	**Aero Radiobeacon** 1.3 miles N.
13365 *M 4747*	Tokomasari-sho.	26° 05.7′ N 127° 38.2′ E	**Q.(9)W.** period 15s	16 **5**	3	W. CARDINAL YBY, beacon, topmark; 16.	
13368 *M 4746*	Rukan Sho Reef.	26° 06.6′ N 127° 32.0′ E	**Fl.(2)W.** period 10s	72 **22**	12	White tower; 56.	**Radar reflector.**
13368.5 *M 4745.2*	Muki.	26° 08.7′ N 127° 37.3′ E	**Q.(9)W.** period 15s	16 **5**	3	W. CARDINAL YBY, beacon, topmark.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			RYUKYU ISLANDS				
13371 *M 4744*	O Se.	26° 11.7′ N 127° 36.9′ E	**Q.(9)W.** period 15s	16 **5**	3	W. CARDINAL YBY, beacon, topmark.	
13372 *M 4740.87*	Sinko, No 1 breakwater, N. head.	26° 15.2′ N 127° 39.5′ E	**Fl.R.** period 3s	72 **22**	7	Red tower; 62.	
13372.2 *M 4740.9*	Urasoe, No 1 breakwater, W. head.	26° 15.5′ N 127° 39.2′ E	**Fl.G.** period 5s	46 **14**	3	White round tower; 13.	
13374 *M 4740.95*	Inner harbor, N. breakwater.	26° 15.3′ N 127° 40.4′ E	**Fl.G.** period 3s	43 **13**	3	White tower; 23.	
13380 *M 4740.85*	Sinko, No 1 breakwater, S. head.	26° 13.5′ N 127° 39.1′ E	**Fl.G.** period 3s	75 **23**	5	White tower; 62.	
13382 *M 4744.8*	Naha, breakwater, N. head.	26° 13.5′ N 127° 38.6′ E	**Fl.(2)R.** period 6s	56 **17**	7	Red tower; 33.	
13388 *M 4741.3*	-Port side.	26° 12.9′ N 127° 39.8′ E	**Fl.G.** period 3s	19 **6**	5	PORT (B) G, tower, topmark; 20.	Visible 322°-142°.
13392 *M 4743*	-Starboard side.	26° 12.8′ N 127° 39.8′ E	**Fl.R.** period 3s	22 **7**	5	Red tower; 13.	
13404 *M 4745*	Naha AVIATION LIGHT.	26° 11.9′ N 127° 38.6′ E	**Al.Fl.W.G.** period 4.3s		W. 3 G. 1		
13407 *M 4739.92*	Kuro Shima.	26° 14.4′ N 127° 24.4′ E	**Fl.(2)W.** period 5s	16 **5**	3	ISOLATED DANGER BRB, beacon, topmark; 16.	
13408 *M 4739.9*	Hate Shima.	26° 14.4′ N 127° 27.5′ E	**Fl.W.** period 3s	115 **35**	7	White square concrete tower; 39.	
13410 *M 4739.95*	Nagannu Sima, atoll, NW. head.	26° 16.5′ N 127° 31.7′ E	**Q.(9)W.** period 15s	16 **5**	3		
13412 *M 4740*	Kamiyama Shima.	26° 15.7′ N 127° 35.1′ E	**Fl.W.** period 4s	69 **21**	7	White square concrete tower; 36.	
13414 *M 4740.6*	Machinato Wan, breakwater, head.	26° 16.7′ N 127° 43.5′ E	**Fl.G.** period 3s	36 **11**	5	White tower; 23.	
13420 *M 4740.3*	**Zampa Misaki.**	26° 26.5′ N 127° 42.8′ E	**Fl.(2)W.** period 10s	144 **44**	**18**	White tower; 102.	Visible 343°-296°.
13422 *M 4740.4*	Maeta Saki, E.	26° 26.9′ N 127° 48.0′ E	**Fl.G.** period 3s	29 **9**	5	White tower; 20.	
13424 *M 4763.5*	Toguchi Ko, S. breakwater, head.	26° 39.7′ N 127° 53.3′ E	**Fl.R.** period 4s	33 **10**	3	Red round concrete tower; 26.	
13432 *M 4763.7*	Nago Wan.	26° 35.0′ N 127° 58.9′ E	**Fl.G.** period 3s	39 **12**	5	White tower; 30.	
13436 *M 4763.54*	Sinko, breakwater, head.	26° 38.5′ N 127° 52.7′ E	**Fl.R.** period 3s	43 **13**	5	Red tower; 33.	
13440 *M 4763.4*	Bise Zaki.	26° 42.8′ N 127° 52.6′ E	**Fl.W.** period 5s	56 **17**	7	White round concrete tower; 39.	
13444 *M 4763.44*	Kouri Shima.	26° 42.6′ N 128° 00.6′ E	**Iso.W.** period 6s	174 **53**	8	White tower; 36.	
13448 *M 4763.6*	Ie Shima, island, W. head.	26° 43.6′ N 127° 45.1′ E	**Fl.W.** period 4s	102 **31**	7	White round concrete tower; 36.	
13449 *M 4763.57*	Ie Ko, breakwater, head.	26° 42.2′ N 127° 48.2′ E	**Fl.G.** period 3s	56 **17**	4	White tower; 39.	
13450 *M 4763.61*	Ryukyu Nakan Si.	26° 40.7′ N 127° 49.3′ E	**Fl.(2)W.** period 5s	18 **5**	5	ISOLATED DANGER BRB, tower, topmark; 16.	
13452 *M 4763.64*	Minna Shima.	26° 38.8′ N 127° 49.2′ E	**Fl.W.** period 3s	89 **27**	12	White tower; 43.	
	RACON		**C(– • – •)**		9		(3cm).

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			RYUKYU ISLANDS				
	OKINAWA GUNTO:						
13460 *M 4739.8*	-Aware Saki.	26° 08.4′ N 127° 20.5′ E	**Fl.W.** period 8s	318 **97**	12	White round concrete tower; 30.	
13460.5 *M 4739.77*	-Breakwater, head.	26° 10.0′ N 127° 20.8′ E	**Fl.R.** period 3s	30 **9**	3	Red tower; 16.	
13461 *M 4739.75*	-Hirasi.	26° 11.9′ N 127° 19.6′ E	**Fl.(2)W.** period 5s	16 **5**	3	ISOLATED DANGER BRB, beacon, topmark; 17.	
13462 *M 4739.85*	Tokashiki.	26° 11.9′ N 127° 22.4′ E	**Fl.G.** period 3s	52 **16**	5	White tower; 39.	
13463 *M 4739.88*	Mae Shima.	26° 11.8′ N 127° 26.3′ E	**Fl.(2)R.** period 6s	18 **5**	3	STARBOARD (B) R, beacon, topmark; 16.	
13464 *M 4739.5*	Kitabirasi.	26° 13.6′ N 127° 20.1′ E	**Fl.W.** period 5s	256 **78**	5	White tower; 26.	
13466 *M 4739.7*	Zamami Ko, breakwater.	26° 13.3′ N 127° 17.9′ E	**Fl.R.** period 3s	43 **13**	5	Red tower; 26.	
13467 *M 4739.76*	Hira-se, breakwater, head.	26° 11.4′ N 127° 17.2′ E	**Fl.R.** period 3s	36 **11**	3	Red tower; 16.	
13467.5 *M 4739.763*	-Beacon.	26° 11.2′ N 127° 16.9′ E	**Fl.(2)G.** period 6s	16 **5**	3	PORT (B) G, beacon, topmark;16.	
13468 *M 4739.6*	Kahi Shima.	26° 13.2′ N 127° 17.0′ E	**Fl.W.** period 4s	141 **43**	5	White round concrete tower; 30.	
13472 *M 4739.48*	Aguni Sima.	26° 34.6′ N 127° 12.7′ E	**Oc.W.** period 4s lt. 3s, ec. 1s	354 **108**	12	White round concrete tower; 52.	
13476 *M 4739.47*	Tonaki Shima.	26° 22.4′ N 127° 08.5′ E	**Iso.W.** period 8s	49 **15**	8	White tower; 33.	
13480 *M 4739.4*	Ogan Misaki.	26° 21.6′ N 126° 55.7′ E	**Fl.W.** period 10s	33 **10**	7	White tower; 30.	
13482 *M 4739.42*	Nakazato Ko.	26° 21.1′ N 126° 49.6′ E	**Fl.R.** period 3s	59 **18**	7	Red tower; 33.	
13490 *M 4739.37*	Torisima Ko.	26° 19.7′ N 126° 45.0′ E	**Fl.R.** period 3s	16 **5**	3	STARBOARD (B) R, tower, topmark; 16.	
13491 *M 4739.39*	-Approach.	26° 20.7′ N 126° 44.9′ E	**Fl.G.** period 3s	30 **9**	3	White tower; 23.	
13492 *M 4739.2*	Kume Sima.	26° 22.3′ N 126° 43.8′ E	**Fl.(2)W.** period 6s	177 **54**	12	White tower; 69.	
13496 *M 4801*	**Kita-daito Shima.**	25° 57.0′ N 131° 17.6′ E	**Fl.W.** period 15s	295 **90**	**22**	White tower; 72.	
	SAKISHIMA GUNTO:						
13500 *M 4739*	-Hude Iwa.	24° 58.8′ N 125° 21.6′ E	**Fl.W.** period 3s	52 **16**	5	White tower; 36.	
13504 *M 4738*	**Ikema Shima.**	24° 56.2′ N 125° 14.2′ E	**Fl.W.** period 12s	138 **42**	**18**	White tower; 75.	
13506 *M 4738.5*	Ikema Sima.	24° 55.8′ N 125° 15.8′ E	**Fl.(2)R.** period 6s	16 **5**	3	STARBOARD (B) R, beacon, topmark; 16.	
13508 *M 4738.4*	Ikema Gyoko.	24° 55.2′ N 125° 15.0′ E	**Fl.R.** period 3s	36 **11**	5	Red tower; 20.	
13510 *M 4738.6*	Ogami Sa, breakwater.	24° 54.4′ N 125° 18.5′ E	**Fl.R.** period 3s	27 **8**	3	Red tower; 16.	
13513 *M 4737.7*	Sarahama Ko, breakwater, S. head.	24° 50.2′ N 125° 13.0′ E	**Fl.(2)R.** period 6s	49 **15**	4	Red tower; 30.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			RYUKYU ISLANDS				
13516 *M 4737*	**Agari-Henna Saki.**	24° 43.1′ N 125° 28.2′ E	**Al.Fl.W.R.** period 20s	141 **43**	**18**	White octagonal concrete tower; 82.	
13520 *M 4737.5*	Hirara Ko.	24° 48.8′ N 125° 16.7′ E	**Fl.(2)G.** period 7s	39 **12**	3	White round concrete tower; 31.	
13524 *M 4736*	Minna Shima.	24° 44.7′ N 124° 42.1′ E	**Fl.W.** period 4s	72 **22**	12	White tower; 43.	
13528 *M 4734*	Hirakubosaki.	24° 36.7′ N 124° 18.9′ E	**Iso.W.** period 6s	243 **74**	12	White tower; 43.	
13532 *M 4733*	Ogan Misaki.	24° 27.1′ N 124° 04.8′ E	**Fl.W.** period 10s	203 **62**	12	White round concrete tower; 56.	
13536 *M 4732*	Ryukyu, Kannon Zaki.	24° 21.9′ N 124° 06.7′ E	**Iso.W.** period 6s	66 **20**	8	White tower; 36.	
13540 *M 4734.26*	Ishigaki Ko.	24° 19.9′ N 124° 07.9′ E	**Fl.(2)R.** period 6s	43 **13**	4	Red round concrete tower; 30.	
13542 *M 4734.15*	-Eastward.	24° 19.9′ N 124° 09.8′ E	**Fl.R.** period 3s	30 **9**	3	Red tower; 20.	
13544 *M 4734.3*	-Outer breakwater, S. head.	24° 20.2′ N 124° 08.4′ E	**Fl.G.** period 3s	39 **12**	4	White round concrete tower; 30.	
13548 *M 4734.4*	-Entrance to Isigaki.	24° 20.1′ N 124° 08.2′ E	**Fl.(2)G.** period 8s	56 **17**	7	White tower; 52.	
13550 *M 4734.5*	-Inner breakwater.	24° 20.6′ N 124° 08.7′ E	**Fl.G.** period 3s	23 **7**	3	White tower; 20.	
13560 *M 4730*	Hatoma Jima.	24° 28.3′ N 123° 49.3′ E	**Fl.W.** period 4s	154 **47**	12	White tower; 52.	
13564 *M 4731*	Funauke Ko.	24° 21.0′ N 132° 42.3′ E	**Fl.W.** period 6s	79 **24**	12	White tower; 30.	
13568 *M 4735*	Haterumia Jima.	24° 03.5′ N 123° 47.2′ E	**Iso.W.** period 6s	230 **70**	12	White tower; 52.	
13570 *M 4735.2*	-NW. breakwater.	24° 04.2′ N 123° 46.1′ E	**Fl.R.** period 3s	46 **14**	4	Red tower; 31.	
13576 *M 4728.4*	Yonaguni Jima.	24° 27.7′ N 123° 02.6′ E	**Fl.W.** period 8s	276 **84**	12	White tower; 39.	
13580 *M 4728*	**Yonaguni Jima, Irii Saki.**	24° 26.9′ N 122° 56.2′ E	**Fl.W.** period 5s	246 **75**	**22**	White round metal tower; 66.	F.W. auxiliary light.
13586 *M 4728.3*	--W. extension, head.	24° 27.2′ N 122° 56.0′ E	**Fl.G.** period 3s fl. 1s, ec. 2s	52 **16**	5	White tower; 33.	
			TAIWAN				
13588 *P 4690*	**P'eng-chia Hsu (T).**	25° 37.9′ N 122° 04.8′ E	**Fl.W.** period 15s	480 **146**	**25**	White round brick tower; 85.	Within 2 miles the light may be obscured from 264° to 316°.
13592 *P 4670*	**Fu-kuei Chiao.**	25° 17.9′ N 121° 32.2′ E	**Fl.(2)W.** period 15s	103 **31**	**27**	White octagonal concrete tower, black bands; 46.	Visible 069°-272°. **Horn:** 1 bl. ev. 30s (bl. 3s, si. 27s).
13596 *P 4672*	**Yeh-liu Pan-tao.**	25° 12.8′ N 121° 41.9′ E	**L.Fl.W.** period 10s fl. 3s, ec. 7s	325 **99**	**17**	White concrete column, tripod; 36.	
13600 *P 4672.2*	Chi-Lung Tao.	25° 11.6′ N 121° 47.2′ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	621 **189**	14	White octagonal concrete tower, black stripes; 39.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			TAIWAN				
	CHI-LUNG:						
13604 *P 4674*	**-Wan-Jentui Pi.**	25° 09.3′ N 121° 44.9′ E	**Mo.(A)W.** period 7s fl. 0.5s, ec. 1.5s fl. 1s, ec. 4s	132 **40**	**16**	White round brick tower; 36.	Visible 151°-347°.
13612 *F 4672.4*	-Shei-ho Power Plant AVIATION LIGHT.	25° 09.4′ N 121° 44.3′ E	**Fl.R.** period 5s	646 **197**	12	Chimney; 669.	Two sets of lights vertically disposed.
13616 *P 4675*	-E. breakwater, head.	25° 09.6′ N 121° 45.3′ E	**Fl.G.** period 3s fl. 0.6s, ec. 2.4s	54 **16**	10	Green octagonal concrete column; 36.	
13620 *P 4676*	-W. breakwater, head.	25° 09.5′ N 121° 45.1′ E	**Fl.R.** period 3s fl. 0.6s, ec. 2.4s	54 **16**	8	Red octagonal concrete tower; 36.	**Radar reflector.**
13624 *P 4675.5*	-E. breakwater extension.	25° 09.7′ N 121° 45.3′ E	**Fl.G.** period 4s fl. 0.5s, ec. 3.5s	72 **22**	14	Green round concrete tower; 56.	
13628 *P 4676.6*	-E. inner breakwater, head.	25° 09.4′ N 121° 45.4′ E	**Fl.G.** period 6s fl. 0.5s, ec. 5.5s	35 **11**	8	Green round concrete column; 23.	Fl.G. light marks stranded wreck 195 meters SSW. 4 Fl.G. lights mark stranded wreck 330 meters SE.
13632 *P 4677*	-W. inner breakwater, head.	25° 09.3′ N 121° 45.2′ E	**F.R.**	98 **30**	8	Blue round tower, red roof; 85.	
13636 *P 4679*	-An Lan.	25° 08.8′ N 121° 45.4′ E	**Oc.G.** period 3s	35 **11**	8	Green round concrete column; 23.	
13640 *P 4678*	-Yu Chiang, Entrance.	25° 09.1′ N 121° 45.8′ E	**F.G.**	24 **7**	9	Green round concrete column; 20.	Fishing light.
13656 *P 4683*	-Pachimen Log Basin.	25° 09.4′ N 121° 46.5′ E	**Iso.G.** period 4s	35 **11**	5	White round concrete column; 23.	
	PA-TOU:						
13658 *P 4684*	-W. breakwater, head.	25° 08.9′ N 121° 47.4′ E	**Fl.R.** period 4s	39 **12**	9	Red column; 23.	
13659 *P 4685*	-E. breakwater, head.	25° 08.9′ N 121° 47.5′ E	**Fl.G.** period 4s fl. 1s, ec. 3s	46 **14**	9	Green tower; 30.	
13660 *P 4686*	-Inner N. breakwater, head.	25° 08.8′ N 121° 47.5′ E	**Fl.G.** period 4s	26 **8**	3	Green column; 20.	
13661 *P 4687*	-Inner S. breakwater, head.	25° 08.8′ N 121° 47.4′ E	**Fl.R.** period 4s	30 **9**	3	Red column; 20.	
13662 *P 4688*	-Quay.	25° 08.7′ N 121° 47.5′ E	**Fl.R.** period 4s	26 **8**	3	Red column; 20.	Fishing light.
	SHEN AO OIL HARBOR:						
13664 *P 4692.4*	-Shen-ao, bay, SE. side.	25° 07.6′ N 121° 49.7′ E	**Oc.G.** period 11s	43 **13**	3	White beacon; 26.	
13668 *P 4692.2*	-Entrance Range, front.	25° 07.5′ N 121° 49.2′ E	**F.G.**	59 **18**	3	White column.	
13672 *P 4692.21*	--Rear, 228° from front.	25° 07.4′ N 121° 49.2′ E	**F.G.**	70 **21**	3	White column; 75.	
13676 *P 4693*	**Pi-tou Chiao.**	25° 07.7′ N 121° 55.4′ E	**Oc.W.** period 11s lt. 6s, ec. 5s	214 **65**	**17**	White round concrete tower; 39.	Visible 090°-325°.
13677.2 *P 4693.4*	-Beacon 1.	25° 05.8′ N 121° 55.1′ E	**Fl.W.** period 4s			Pole.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			TAIWAN				
13678 *P 4693.1*	Observation platform.	25° 06.9′ N 122° 02.5′ E	**Fl.W.** period 5s	10 **3**		Platform.	
13680 *P 4694*	**San-tiao Chiao.**	25° 00.5′ N 122° 00.1′ E	**Fl.(2)W.R.** period 28s	331 **101**	W. **24** R. **20**	White round concrete tower; 52.	R. 011°-021°, W.-011°.
13682 *P 4697*	Kui-shan Tao.	24° 50.6′ N 121° 56.4′ E	**Q.(3)W.** period 10s fl. 0.5s, ec. 0.5s fl. 0.5s, ec. 0.5s fl. 0.5s, ec. 7.5s	39 **12**	9		
	SU-AO CHIANG:						
13684 *P 4700*	**-Pei Chiao.**	24° 36.0′ N 121° 53.1′ E	**Fl.W.R.** period 7s fl. 1s, ec. 6s	185 **56**	W. **16** R. 12	White square concrete tower; 26.	W. 164°-210°, R.-240°, W.-268°, R.-303°, W.-073°.
	-RACON		**G(– – •)**		**15**		(3 & 10cm).
13688 *P 4700.5*	-N. outer breakwater, head.	24° 35.7′ N 121° 52.9′ E	**Q.(2)R.** period 5s	70 **21**	10	Red round concrete tower; 59.	
13692 *P 4700.6*	-S. outer breakwater, head.	24° 35.6′ N 121° 52.8′ E	**Fl.(2)G.** period 5s fl. 0.5s, ec. 0.5s fl. 0.5s, ec. 3.5s	66 **20**	11	Green round concrete tower; 59.	
13696 *P 4701*	-On heights about 2.8 kilometers W. of Pei Chiao.	24° 36.3′ N 121° 51.4′ E	**Oc.W.R.G.** period 3s lt. 2s, ec. 1s	240 **73**	W. 12 R. 9 G. 9	White metal framework tower; 20.	R. 284°-292°, W.-295°, G.-309°.
13700 *P 4701.2*	-Breakwater, N. head.	24° 35.8′ N 121° 52.1′ E	**Fl.G.** period 5s fl. 1s, ec. 4s	44 **13**	11	Green concrete column; 33.	
13704 *P 4701.22*	-Breakwater, S. head.	24° 35.4′ N 121° 52.1′ E	**Fl.R.** period 4s	13 **4**	8	Red pile; 7.	
13712 *P 4701.25*	-Training Wall, head.	24° 35.9′ N 121° 51.6′ E	**Fl.R.** period 4s				
13716 *P 4701.15*	-Suao Kang, N. inner breakwater.	24° 35.8′ N 121° 52.4′ E	**Fl.R.** period 2.5s	69 **21**	8	Red octagonal concrete column; 62.	Q.R. lights mark entrance to Pei-fang Wan, close NW.
13718 *P 4701.7*	-Nan-fang Wan, Pier 13.	24° 35.2′ N 121° 52.1′ E	**Fl.R.** period 4s	75 **23**	1	Beacon, triangular daymark point up; 75.	
13719	--S2.	24° 35.2′ N 121° 52.0′ E	**F.G.**				
13721 *P 4702*	Nan-fang-ao, breakwater, W.	24° 35.1′ N 121° 52.1′ E	**F.R.**	16 **5**	7	Red concrete column; 16.	
13722 *P 4703*	-E.	24° 35.1′ N 121° 52.2′ E	**F.G.**	16 **5**	7	Green concrete column; 16.	
13725 *P 4704*	**Ho-p'ing Hsi,** front.	24° 18.4′ N 121° 45.8′ E	**W.R.G.**	69 **21**	**16**	Red and white beacon; 46.	F.R. 005°-007°30′, Al.R.G.-009°30′, F.G.-010°30′, Al.W.G.-012°30′, F.W.-015°. Range 2M by day.
13725.5 *P 4704.1*	-Rear, 010° from front.	24° 19.2′ N 121° 45.9′ E	**Q.G.**	167 **51**	**17**	Red and white metal column; 197.	
13726 *P 4704.2*	-W. Breakwater, head.	24° 17.6′ N 121° 45.5′ E	**Fl.(2)G.** period 8s fl. 0.5s, ec. 1s fl. 0.5s, ec. 6s	69 **21**	10	Green beacon; 43.	Fl.(2)R. 8s 25m 13M light on E. Breakwater.
13728 *P 4705*	**Chi-lai Pi.**	24° 00.9′ N 121° 38.6′ E	**Iso.W.** period 6s	102 **31**	**17**	White pentagonal concrete tower; 43.	Visible 150°-024°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			TAIWAN				
	HUA-LIEN ANCHORAGE:						
13732 *P 4706*	-Hua-Lien.	23° 58.5′ N 121° 36.8′ E	**Fl.(3)G.** period 12s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 7s		10	White square metal framework tower; 92.	Visible 232°-019°.
13736 *P 4708*	-Hua-lien Range, front.	23° 59.7′ N 121° 38.3′ E	**F.G.**	39 **12**	8	White concrete column, red triangular daymark point up; 39.	
13740 *P 4708.1*	--Rear, 600 meters 023°30′ from front.	24° 00.0′ N 121° 38.4′ E	**F.R.**	79 **24**	8	Red square concrete column, white triangular daymark point down; 69.	
13746 *P 4709.5*	-Mei-Lun.	23° 59.6′ N 121° 38.2′ E	**F.G.**	7 **2**	2		
13747.5 *P 4710*	Mei-Lun boat basin.	23° 59.9′ N 121° 38.3′ E	**Fl.R.** period 4s	3 **1**	2	Red metal pole; 7.	
13748 *P 4709*	-E. breakwater, S. head.	23° 58.3′ N 121° 37.8′ E	**Fl.R.** period 3s fl. 0.5s, ec. 2.5s	43 **13**	8	Red round concrete column; 36.	
13749 *P 4709.1*	-E. breakwater, head.	23° 58.2′ N 121° 37.7′ E	**Fl.R.** period 4s fl. 1s, ec. 3s	72 **22**	11	Red round concrete tower; 75.	
13750 *P 4709.3*	-W. breakwater, head.	23° 58.4′ N 121° 37.6′ E	**Fl.G.** period 3s fl. 0.5s, ec. 2.5s	59 **18**	12	Green round concrete column; 36.	
	-RACON		**D(– • •)**		**15**		(3 &10cm).
13752 *P 4714*	San-hsien-t'ai.	23° 07.6′ N 121° 25.3′ E	**Fl.W.** period 6s fl. 0.6s, ec. 5.4s	194 **59**	9	White square concrete tower; 23.	Visible 137°-039°.
13756 *P 4716*	Ch'eng-kung Anchorage, E. breakwater.	23° 05.8′ N 121° 22.8′ E	**Fl.(2)W.** period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	33 **10**	12	Red round concrete tower; 33.	
13760 *P 4724*	**Huo-shao Tao.**	22° 40.6′ N 121° 28.0′ E	**Fl.(2)W.** period 20s	151 **46**	**26**	White round concrete tower; 108.	
13764 *P 4725*	**Lan Yu.**	22° 04.9′ N 121° 30.2′ E	**Fl.(4)W.** period 24s fl. 0.3s, ec. 3.7s fl. 0.3s, ec. 3.7s fl. 0.3s, ec. 3.7s fl. 0.3s, ec. 11.7s	702 **214**	**26**	White round concrete tower; 49.	Obscured by high land of island.
13768 *P 4602*	**O-luan Pi.**	21° 54.1′ N 120° 51.3′ E	**Fl.W.** period 10s fl. 1s, ec. 9s	177 **54**	**27**	White round metal tower, gallery; 69.	Visible 234°-099°. Fl.G. 4s 13m marks small harbor 4.5 miles N. Signal station.
13769 *P 4603.04*	Hou-Pi Hu Fishing Harbor.	21° 56.6′ N 120° 44.7′ E	**Fl.(3)G.** period 10s			White concrete post.	
13769.5 *P 4603.06*	-N. side.	21° 56.6′ N 120° 44.8′ E	**Fl.R.** period 4s			White concrete post.	
13770 *P 4606*	Fang-liao Fishing Harbor.	22° 21.8′ N 120° 35.4′ E	**F.W.**	52 **16**	10	Red concrete tower; 46.	
13776 *P 4612*	Liu-ch'iu Hsu.	22° 19.7′ N 120° 22.0′ E	**L.Fl.W.** period 8s fl. 2s, ec. 6s	285 **87**	14	White round concrete tower; 39.	Visible 226°-217°.
13780 *P 4610*	-Breakwater, head.	22° 21.2′ N 120° 23.0′ E	**Fl.R.** period 3s	13 **4**	9	Red pile; 7.	Fishing light.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			TAIWAN				
13784	*Ta-Lin-Pu Terminal Buoy No 1.*	22° 30.2′ N 120° 18.4′ E	**Fl.(2)W.** period 15s fl. 1s, ec. 2s fl. 1s, ec. 11s			SBM.	**Horn:** 1 bl. ev. 20s.
13784.2	*-No 2.*	22° 29.7′ N 120° 17.2′ E	**Fl.(4)W.** period 15s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 8s			SBM.	**Horn:** 1 bl. ev. 20s. **Radar reflector.**
13784.4	*-No 3.*	22° 28.3′ N 120° 17.4′ E	**Mo.(A)W.** period 15s			SBM.	**Radar reflector.**
13784.6	*-No 4.*	22° 28.8′ N 120° 18.6′ E	**Fl.(2)W.** period 15s fl. 1s, ec. 1s fl. 2s, ec. 11s			SBM.	
13786	Ta-lin p'u, N. breakwater, head.	22° 31.8′ N 120° 19.5′ E	**Fl.W.** period 3s	39 **12**	6	Steel post; 3.	
13786.1	-S. breakwater.	22° 31.8′ N 120° 19.5′ E	**Fl.R.** period 3s	39 **12**	4	Steel post; 3.	
	KAO-HSUING CHIANG:						
13788 *P 4624.4*	-S. entrance, N. breakwater, head.	22° 33.1′ N 120° 18.0′ E	**Fl.(3)G.** period 10s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 5s	52 **16**	**15**	Green square concrete tower; 43.	N. mole marked by three 2 F.G. (vert.) 6M lights.
	-RACON		**Y(– • – –)**		**15**		(3 & 10cm).
13792 *P 4624.42*	-S. breakwater, head.	22° 32.9′ N 120° 17.9′ E	**Fl.R.** period 4s fl. 0.5s, ec. 3.5s	52 **16**	14	Red square concrete tower; 43.	S. mole marked by three 2 F.R. (vert.) 6M lights. **Radar reflector.**
13793 *P 4624.5*	-Range, front.	22° 33.3′ N 120° 19.8′ E	**F.R.G.** (vert.)	125 **38**	5	Beacon, triangular daymark point up; 121.	
13793.1 *P 4624.51*	--Rear, 490 meters 079°30′ from front.	22° 33.3′ N 120° 20.1′ E	**F.R.G.** (vert.)	157 **48**	5	Beacon, triangular daymark point down; 121.	
13794 *P 4621.52*	-Container Terminal No 1.	22° 36.6′ N 120° 17.0′ E	**Q.R.**	89 **27**	3	White column; 82.	
13794.1 *P 4621.5*	-Dock No 142 Range, front.	22° 36.8′ N 120° 16.4′ E	**Q.R.**		3		
13794.2 *P 4621.51*	--Rear.	22° 36.7′ N 120° 16.5′ E	**Fl.R.** period 4s	13 **4**	3	Black beacon, red band, black double ball topmark; 3.	
13796 *P 4618*	**-Ch'i-hou Shan.**	22° 36.9′ N 120° 15.9′ E	**Fl.(4)W.** period 30s fl. 0.4s, ec. 4.6s fl. 0.4s, ec. 4.6s fl. 0.4s, ec. 4.6s fl. 0.4s, ec. 14.6s	184 **56**	**25**	White octagonal brick tower; 49.	Visible 320°-158°. Traffic signals.
13800 *P 4620*	-N. entrance, N. breakwater, head.	22° 37.3′ N 120° 15.4′ E	**Iso.G.** period 4s	43 **13**	**16**	Green round concrete column; 45.	
	-RACON		**G(– – •)**		**15**		(3 & 10cm).
13804 *P 4621*	-S. breakwater, head.	22° 37.1′ N 120° 15.4′ E	**Fl.R.** period 6s fl. 0.8s, ec. 5.2s	43 **13**	12	Red round concrete column; 46.	**Radar reflector.**
13806 *P 4622*	-Narrows, N. side.	22° 37.0′ N 120° 16.0′ E	**F.G.**	36 **11**	5	Black beacon, red band, black double ball topmark; 16.	2 F.G. (vert.) shown from W. end of N. side.
13806.2 *P 4622.2*	---No 2.	22° 37.0′ N 120° 16.0′ E	**F.G.**	23 **7**	5	ISOLATED DANGER BRB, beacon, topmark; 16.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			TAIWAN				
13807 *P 4623.4*	--S. side.	22° 37.0′ N 120° 15.9′ E	**F.R.G.**	23 **7**	5	Black beacon, red band, black double ball topmark; 16.	F.R. shown from W. end of S. side. 2 F.R. (vert.) shown from E. end of S. side.
13808 *P 4625*	Tso-ying.	22° 41.8′ N 120° 15.3′ E	**Fl.W.** period 6s	61 **19**	9		**Aero Radiobeacon** 5.5 miles NNE.
13812 *P 4625.2*	-S. breakwater, head.	22° 41.8′ N 120° 15.1′ E	**Fl.R.** period 4s	59 **18**	6		
13816 *P 4625.4*	-Spur, head.	22° 42.0′ N 120° 15.0′ E	**Fl.R.** period 5s	46 **14**	5		
	TSO-YING:						
13820 *P 4626*	-Entrance Range, front.	22° 41.4′ N 120° 16.5′ E	**F.R.**	61 **19**	8		
13824 *P 4626.1*	--Rear, 570 meters 103°48′ from front.	22° 41.3′ N 120° 16.8′ E	**F.G.**	106 **32**	3		
13824.5 *P 4626.2*	-N. breakwater, head.	22° 43.5′ N 120° 15.0′ E	**Fl.G.** period 5s	33 **10**	3	Green four-sided concrete post; 33.	
13824.6 *P 4626.25*	-S. breakwater, head.	22° 43.5′ N 120° 14.9′ E	**Fl.R.** period 4s	33 **10**	3	Red column; 33.	
13825 *P 4626.3*	-Tug berth.	22° 48.4′ N 120° 12.3′ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	74 **23**	**17**	White round concrete tower; 65.	
13825.1 *P 4626.4*	-Breakwater, head.	22° 49.2′ N 120° 11.4′ E	**Fl.R.** period 4s fl. 0.5s, ec. 3.5s	92 **28**	9	Red octagonal concrete tower; 69.	
13825.12 *P 4626.43*	-N. breakwater, head.	22° 49.1′ N 120° 11.8′ E	**Fl.G.** period 4s	82 **25**	9	Green octagonal concrete tower; 69.	
13826 *P 4626.5*	-Unloading platform.	22° 48.6′ N 120° 11.8′ E	**Mo.(U)W.** period 12s	39 **12**	8	Metal pole, control tower.	Mo.(U)W. 12s mark dolphins 220 meters N. and 280 meters S. **Horn:** 1 bl. ev. 20s (bl. 4s, si. 16s).
	AN-P'ING-CHIANG:						
13828 *P 4628*	-N. of N. entrance.	22° 59.5′ N 120° 08.8′ E	**Fl.(3)W.** period 20s	69 **21**	**15**	White metal framework tower; 72.	Visible 305°-145°.
13828.1 *P 4628.1*	-N. entrance, N. breakwater, head.	22° 59.1′ N 120° 08.7′ E	**Fl.G.** period 4s	46 **14**	12	Concrete column; 33.	
13828.2 *P 4628.15*	--S. breakwater, head.	22° 59.0′ N 120° 08.7′ E	**Fl.R.** period 4s	39 **12**	12	Concrete column; 33.	
13828.5 *P 4628.2*	-Harbor, NE.	22° 59.0′ N 120° 08.9′ E	**Fl.Y.** period 4s fl. 0.5s, ec. 3.5s			Gray concrete column.	
13829 *P 4629.24*	-**Anping Harbor**, N. outer breakwater, head.	22° 57.8′ N 120° 08.8′ E	**Iso.G.** period 3s	72 **22**	**17**	Green round concrete column; 75.	
13832 *P 4629*	--N. breakwater.	22° 58.0′ N 120° 09.3′ E	**Fl.W.** period 4s fl. 1.5s, ec. 2.5s	46 **14**	8	White metal post; 43.	
13834 *P 4629.23*	--S. outer breakwater, head.	22° 57.6′ N 120° 08.9′ E	**Iso.R.** period 3s	77 **24**	13	Red octagonal concrete tower; 75.	
13836 *P 4629.2*	--S. breakwater.	22° 57.9′ N 120° 09.4′ E	**Fl.R.** period 6s fl. 1.5s, ec. 4.5s	52 **16**	8	Red metal post; 42.	
13837 *P 4629.3*	--S. wharf, W. end.	22° 58.2′ N 120° 09.8′ E	**F.R.**	52 **16**	6	Red and white metal post; 33.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			TAIWAN				
13837.2 *P 4629.35*	---Middle.	22° 58.2′ N 120° 09.9′ E	**F.R.**	52 **16**	6	Red and white metal post; 33.	
13837.4 *P 4629.355*	---E. end.	22° 58.2′ N 120° 10.0′ E	**F.R.**	52 **16**	6	Red and white metal post; 33.	
13838 *P 4629.25*	--N. wharf, W. end.	22° 58.2′ N 120° 09.8′ E	**F.G.**	52 **16**	6	Green and white metal post; 33.	
13838.2 *P 4629.26*	---Middle.	22° 58.3′ N 120° 09.9′ E	**F.G.**	52 **16**	6	Green and white metal post; 33.	
13838.4 *P 4629.27*	---W. end.	22° 58.3′ N 120° 09.9′ E	**F.G.**	52 **16**	6	Green and white metal post; 33.	
13839	--N. Channel.	22° 58.5′ N 120° 09.9′ E	**Fl.G.** period 4s				Fl.G. 4s lights mark channel.
13839.5 *P 4629.21*	-Harbor, SE.	22° 57.2′ N 120° 10.3′ E	**Fl.Y.** period 4s fl. 0.5s, ec. 3.5s			Gray concrete column.	
13840 *P 4630*	**Kuo-sheng Kang.**	23° 06.0′ N 120° 02.2′ E	**Fl.(2)W.** period 15s fl. 1.5s, ec. 3s fl. 1.5s, ec. 9s	105 **32**	**17**	White metal framework tower, black bands; 108.	Fl.W. 4s, Fl.R. 4s marks end of peninsula 1.3 miles NNE.
13844 *P 4658.4*	Wengangdui.	23° 26.0′ N 120° 02.0′ E	**Fl.W.** period 4s fl. 0.6s, ec. 3.4s	191 **58**	11	White four-sided metal framework tower, red bands; 197.	
13852 *P 4659.5*	**Fong-Yuan.**	23° 58.3′ N 120° 19.4′ E	**Iso.W.** period 10s	112 **34**	**17**	White octagonal tower, black stripes; 121.	
	RACON		**Q(– – • –)**		**15**		(3 & 10cm).
13853 *P 4659.45*	-Wang-Kung, observation tower.	24° 00.1′ N 120° 16.4′ E	**Mo.(U)W.** period 15s	302 **92**	10	Red and white metal conical tower; 304.	
13854 *P 4659.415*	Mai-liao Kang, S. breakwater.	23° 46.8′ N 120° 09.7′ E	**Fl.R.** period 3s fl. 1s, ec. 2s	72 **22**	13	Red octagonal concrete tower; 75.	F.R. 12m 10M light marks breakwater SE.
	RACON		**N(– •)**		**15**		(3 & 10cm).
13855 *P 4659.412*	-W. breakwater.	23° 46.8′ N 120° 09.1′ E	**Fl.G.** period 3s fl. 1s, ec. 2s	75 **23**	**16**	Green round concrete column: 72.	
	RACON		**X(– • • –)**		**15**		(3 & 10cm).
13855.1 *P 4659.428*	-W. inner breakwater.	23° 47.2′ N 120° 09.6′ E	**Oc.G.** period 5s lt. 3s, ec. 2s	46 **14**	12	Green metal column; 43.	
			Q.G.				
	P'ENG-HU-LIEH-TAO:						
13856 *P 4658*	**-Mu-t'ou Hsu.**	23° 47.2′ N 119° 36.0′ E	**Fl.W.** period 20s fl. 1.2s, ec. 18.8s	160 **49**	**27**	White round metal tower, black bands; 131.	
13858	-Hsiao ch'ih-chiao Range, front.	23° 35.6′ N 119° 30.8′ E	**F.G.**	66 **20**	3		
13858.1	--Rear, 371 meters 317° from front.	23° 35.8′ N 119° 30.6′ E	**F.R.**	85 **26**	3		
13860 *P 4654*	-Hai-kan Yen.	23° 34.8′ N 119° 32.5′ E	**Fl.W.** period 6s fl. 0.6s, ec. 5.4s	29 **9**	6	White metal framework tower; 25.	
13872 *P 4652*	**-Yu-weng Tao.**	23° 33.8′ N 119° 28.1′ E	**L.Fl.(2)W.** period 30s	199 **61**	**25**	White round metal tower; 36.	**Horn:** 1 bl. ev. 30s (bl. 3s, si. 27s).

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			TAIWAN				
13878	-Chu-mu-shui Range, front.	23° 31.5′ N 119° 34.9′ E	**F.G.**	30 **9**	3		
13878.1	--Rear, 561 meters 137° from front.	23° 31.3′ N 119° 35.2′ E	**F.R.**	59 **18**	3		
13880 *P 4650*	-Ch'a-mou Hsu.	23° 32.1′ N 119° 43.5′ E	**Fl.W.** period 6s fl. 0.4s, ec. 5.6s	81 **25**	9	White octagonal brick tower, black stripes; 43.	**Radar reflector**
13884 *P 4640*	**-Ch'u-t'ou Hsu.**	23° 15.6′ N 119° 40.2′ E	**L.Fl.W.** period 12s fl. 2s, ec. 10s	220 **67**	**21**	White round concrete structure, black bands; 79.	
13888 *P 4642*	-Chi-mei Yu on, Ta Hsu, S. head.	23° 11.4′ N 119° 25.7′ E	**Fl.(2)W.** period 10s fl. 0.5s, ec. 1s fl. 0.5s, ec. 8s	134 **41**	11	White round concrete tower; 26.	Visible 228°-158°.
13892 *P 4646*	-Hua Hsu, island, W. side.	23° 24.2′ N 119° 19.0′ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	212 **65**	10	White round concrete tower; 39.	
13892.3	Mai Liao Refinery.	23° 47.5′ N 120° 09.8′ E	**Fl.R.** period 4s				Fl.R. 4s marks S. breakwater 1.3 miles SSE.
13892.5	Chang Sheng.	24° 11.0′ N 120° 25.5′ E	**Fl.R.** period 4s				Marks wreck Chang Sheng. Lights on bow and stern.
13893 *P 4659.7*	Taichung Power Plant, S. training wall, head.	24° 12.9′ N 120° 27.7′ E	**Fl.R.** period 4s	36 **11**		Red concrete tower; 10.	Fl.R. 4s marks center of S. wall and head of N. training wall.
13896 *P 4660.15*	**Taichung Kan.**	24° 17.3′ N 120° 31.4′ E	**Fl.(3)W.** period 30s	197 **60**	**27**	White concrete silo; 207.	
13900 *P 4660.4*	**Taichung Harbor.**	24° 18.0′ N 120° 29.2′ E	**Fl.G.** period 4s fl. 0.8s, ec. 3.2s	66 **20**	**17**	Green round concrete tower; 59.	
	RACON		**M(– –)**		**15**		(3 & 10cm).
13901 *P 4660.48*	-Entry Channel Range, front.	24° 17.7′ N 120° 29.9′ E	**W.R.G.**	36 **11**	W. 14 R. 11 G. 11	Yellow hexagonal concrete tower; 52.	F.R. 057°30′-062°30′, F.W.-067°30′, F.G.-072°30′.
			F.Y.		11		
13901.1 *P 4660.481*	--Rear, 500 meters 065° from front.	24° 17.8′ N 120° 30.2′ E	**F.Y.**	121 **37**	11	Yellow metal tower; 98.	
13902 *P 4660.5*	-N. breakwater, jetty.	24° 17.9′ N 120° 30.3′ E	**Fl.R.** period 5s fl. 0.5s, ec. 4.5s	10 **3**	6	Red round concrete tower; 26.	
13904 *P 4660.6*	-S. breakwater.	24° 17.4′ N 120° 30.0′ E	**Fl.R.** period 2s	62 **19**	14	Red round concrete tower; 66.	
	-RACON		**F(• • – •)**		**15**		(3 & 10cm).
13906 *P 4660.94*	-Main Channel Range, front.	24° 17.0′ N 120° 31.4′ E	**W.R.G.**	141 **43**	**17**	Red and white square metal tower, yellow triangular daymark point up; 138.	F.R. 103°-112°, F.W.-116°30′, F.G.-121°.
13907 *P 4660.941*	--Rear, 800 meters 114°15′ from front.	24° 16.8′ N 120° 31.9′ E	**F.W.**	223 **68**	10	Red and white four-sided metal tower, yellow triangular daymark point down; 220.	Strobe.
13908 *P 4660.64*	-Fishing harbor, outer breakwater, head.	24° 17.5′ N 120° 30.6′ E	**Fl.G.** period 6s fl. 0.6s, ec. 5.4s	29 **9**	8	Green round concrete column; 23.	
13909 *P 4660.66*	--Inner breakwater.	24° 17.5′ N 120° 30.7′ E	**Fl.G.** period 4s fl. 0.5s, ec. 3.5s	26 **8**	8	Green round concrete column; 23.	
13909.5 *P 4660.67*	--E. inner breakwater.	24° 17.5′ N 120° 30.8′ E	**F.W.**	56 **17**		Yellow tower; 26.	Fishing light.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			TAIWAN				
13912 *P 4660.7*	-N. inner breakwater.	24° 17.3′ N 120° 30.8′ E	**Fl.G.** period 3s fl. 0.5s, ec. 2.5s	36 **11**	10	Red round concrete column; 33.	
13916 *P 4660.8*	-S. inner breakwater.	24° 17.1′ N 120° 30.7′ E	**Fl.R.** period 3s fl. 0.5s, ec. 2.5s	39 **12**	10	Red round concrete tower; 36.	
13918 *P 4660.92*	-W. basin, E. arm.	24° 17.3′ N 120° 30.9′ E	**Fl.R.** period 5s fl. 0.5s, ec. 4.5s	20 **6**	8	Red round concrete column; 23.	
13919 *P 4660.9*	--W. arm.	24° 17.3′ N 120° 30.9′ E	**Fl.G.** period 4s	43 **13**	8	Green concrete tower; 23.	
13920 *P 4660.93*	-Taichung Harbor Craft Basin, W. breakwater.	24° 17.2′ N 120° 31.0′ E	**Fl.G.** period 4s fl. 1s, ec. 3s	20 **6**	8	Green round concrete column; 23.	
13920.1 *P 4660.932*	--E. breakwater.	24° 17.2′ N 120° 31.1′ E	**F.R.**	43 **13**	8	Red concrete column; 23.	
13921.1 *P 4660.675*	-Collier Channel N. Range, front.	24° 17.4′ N 120° 31.1′ E	**F.G.**	69 **21**	9	Orange metal tower, green triangular daymark point up; 59.	
13921.11 *P 4660.676*	--Rear, 601 meters 021°32′ from front.	24° 17.7′ N 120° 31.3′ E	**F.G.**	135 **41**	9	Orange metal tower, red triangular daymark point down; 92.	
13921.2 *P 4660.617*	-Collier Channel S. Range, front.	24° 14.2′ N 120° 29.8′ E	**F.G.**	125 **38**	9	Orange metal tower, green triangular daymark point up; 92.	
13921.21 *P 4660.618*	--Rear, 864 meters 201°32′ from front.	24° 13.8′ N 120° 29.6′ E	**F.G.**	236 **72**	10	Orange metal chimney; 223.	
13921.3 *P 4660.614*	-Coal Wharf Range, front.	24° 14.1′ N 120° 29.0′ E	**F.G.**	43 **13**	3	Orange metal pillar, green triangular daymark point up; 33.	
13921.31 *P 4660.615*	--Rear, 100 meters 231°30′ from front.	24° 14.2′ N 120° 29.0′ E	**F.G.**	59 **18**	3	Orange metal pillar, red triangular daymark point up; 46.	
13921.4 *P 4660.62*	-S. Pier Range, front.	24° 15.2′ N 120° 30.5′ E	**F.G.**	43 **13**	3	Orange metal pillar, green triangular daymark point up; 33.	
13921.41 *P 4660.621*	--Rear, 100 meters 051°30′ from front.	24° 15.3′ N 120° 30.5′ E	**F.G.**	59 **18**	3	Orange metal pillar, red triangular daymark point down; 46.	
13921.5 *P 4660.61*	-W. Pier Range, front.	24° 15.1′ N 120° 29.6′ E	**F.G.**	43 **13**	9	Orange metal tower, green triangular daymark point up; 33.	
13921.51 *P 4660.611*	--Rear, 116 meters 021°30′ from front.	24° 15.1′ N 120° 29.6′ E	**F.G.**	79 **24**	9	Orange metal tower, red triangular daymark point down; 46.	
13922 *P 4660.63*	China American Petrochemical Co. Ltd. E. AVIATION LIGHT.	24° 15.9′ N 120° 29.8′ E	**Fl.W.** period 1.5s	328 **100**	6	Round column; 312.	
13922.1 *P 4660.635*	-W. AVIATION LIGHT.	24° 15.9′ N 120° 29.9′ E	**Fl.W.** period 1.5s	246 **75**		Round column; 230.	
13940 *P 4660.2*	Taichung Harbor, N. jetty.	24° 18.8′ N 120° 31.2′ E	**Fl.(3)W.** period 10s fl. 0.4s, ec. 0.9s fl. 0.4s, ec. 0.9s fl. 0.4s, ec. 7s	43 **13**	7	White round concrete tower, red bands; 39.	
13942	Tung-shiao, power plant, prohibited area.	24° 30.0′ N 120° 39.3′ E	**2 Fl.R.** (vert.) period 5s	36 **11**	3		Five 2 Fl.R. 5s (vert.) lights mark pipelines.
13944 *P 4661*	Pai-sha-t'un.	24° 33.3′ N 120° 43.9′ E	**F.R.**				

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			TAIWAN				
13946 *P 4661.4*	Observation Tower.	24° 42.4′ N 120° 49.9′ E	**Fl.W.** period 1.7s	49 **15**	4	Red and white metal beacon tower; 288.	
13948 *P 4661.5*	AVIATION LIGHT (Hsinchu).	24° 48.9′ N 120° 56.5′ E	**Al.Fl.W.G.** period 9.5s W. fl. 1s, ec. 4s G. fl. 0.5s, ec. 4s		**15**		
13949 *P 4661.6*	Hsinchu, S. breakwater.	24° 51.1′ N 120° 54.8′ E	**Fl.R.** period 4s fl. 0.5s, ec. 3.5s	45 **14**	4	Red round concrete tower; 16.	
13950 *P 4661.7*	-N. breakwater.	24° 51.2′ N 120° 54.8′ E	**Fl.W.** period 4s fl. 0.5s, ec. 3.5s	45 **14**	4	White round concrete tower; 20.	
13952 *P 4662*	**Pai-sha-Chia (Hakusha Ko).**	25° 02.5′ N 121° 04.6′ E	**Al.Fl.W.R.** period 20s W. fl. 0.2s, ec. 9.8s R. fl. 0.2s, ec. 9.8s	122 **37**	W. **26** R. **23**	White round brick tower; 92.	Visible 055°-235°. Partially obscured 075°-078°.
13960 *P 4664*	**Tan-Shui Kang.**	25° 10.6′ N 121° 25.2′ E	**L.Fl.W.** period 8s fl. 2s, ec. 6s	115 **35**	**17**	White square metal tower; 108.	
13960.05 *P 4663.2*	-Shoal Warning LT7.	25° 08.8′ N 121° 19.8′ E	**Q.(2)W.** period 5s	59 **18**	10	Black metal post.	
13960.1 *P 4663.4*	-N. outer breakwater, head.	25° 09.3′ N 121° 21.5′ E	**Fl.G.** period 5s fl. 1s, ec. 4s	56 **17**	12	Green round concrete tower; 52.	
	-RACON		**T(–)**				
13960.13 *P 4663.5*	--SW. corner.	25° 09.4′ N 121° 22.3′ E	**Fl.G.** period 4s			Green metal post; 23.	
			Fl.G. period 5s	33 **10**	10		
13960.17 *P 4663.25*	-Hsia-ku-tzu.	25° 08.1′ N 121° 22.0′ E	**Iso.W.** period 3s			White column; 141.	
13960.18 *P 4663.26*	-S. breakwater, SW. side.	25° 08.3′ N 121° 22.0′ E	**Fl.G.** period 4s	13 **4**			
13960.19 *P 4663.27*	--W. side.	25° 08.5′ N 121° 21.8′ E	**Fl.Y.** period 4s	16 **5**			
13960.2 *P 4663.3*	--Head.	25° 09.0′ N 121° 21.7′ E	**Fl.R.** period 5s			Red round concrete tower; 55.	
			Fl.R. period 4s	61 **19**	**15**		
13960.62 *P 4663.65*	-S. inner breakwater, NW. head.	25° 09.3′ N 121° 23.0′ E	**Fl.R.** period 4s	13 **4**			
13961.9 *P 4664.5*	**-Pa-li Ocean,** Outfall pipeline.	25° 09.8′ N 121° 24.6′ E	**F.R.**		**19**	White metal column; 62.	Visible 135°-145°.
13962 *P 4665.2*	-Fishing harbor, N. side.	25° 11.0′ N 121° 24.3′ E	**Fl.G.** period 4s		8	Green tower; 20.	
13962.5 *P 4665*	--S. side.	25° 11.0′ N 121° 24.3′ E	**Fl.R.** period 4s		8	Red column; 20.	
13962.8 *F 4665.5*	--Inner entrance, N. side.	25° 11.0′ N 121° 24.5′ E	**Fl.G.** period 4s		8	White column; 20.	
13962.9 *P 4665.4*	---S. side.	25° 11.0′ N 121° 24.5′ E	**Fl.R.** period 4s		8	Red column; 20.	
13964 *P 4666.5*	-N. side.	25° 10.2′ N 121° 26.3′ E	**F.R.**	48 **15**	9	Red square metal framework structure; 43.	

Section 9

Philippines and Pacific Coast of Russia

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			PHILIPPINES				
13985 *F 2819*	Balintang Island.	19° 57.6′ N 122° 08.5′ E	**Fl.W.** period 5s		12	Concrete structure.	
13988 *F 2822*	Batan Island.	20° 22.0′ N 121° 58.3′ E	**F.R.**		10		
13990 *F 2822.5*	Basco.	20° 26.9′ N 121° 57.9′ E	**Fl.W.** period 5s		7	White concrete structure, stone dwelling.	
13991 *F 2820*	Sabtang Island.	20° 20.4′ N 121° 52.3′ E	**Fl.W.** period 5s		7	Concrete structure.	
13991.5 *F 2819.5*	-Chavayan.	20° 17.2′ N 121° 53.0′ E	**Fl.W.** period 5s		12		
13992 *F 2823*	**Amianan Island.**	21° 07.1′ N 121° 56.8′ E	**Fl.W.** period 5s	65 **20**	**15**	Concrete tower.	Visible 200°-310°.
13996 *F 2720*	**Arboledan Point.**	18° 01.0′ N 120° 28.9′ E	**Fl.R.** period 5s	161 **49**	**18**	White concrete tower; 33.	
14000 *F 2722*	**Cape Bojeador.**	18° 30.8′ N 120° 35.8′ E	**Fl.(3)W.** period 5s	386 **118**	**20**	White octagonal tower, dwelling; 66.	Visible 014°-236°.
14002 *F 2723*	Dialao Point.	18° 37.7′ N 120° 47.3′ E	**Fl.(4)W.** period 20s			Fiberglass structure.	
14004 *F 2724*	**Pata Point.**	18° 37.4′ N 121° 09.3′ E	**Fl.W.** period 5s fl. 0.4s, ec. 4.6s	202 **62**	**15**	Small white concrete dwelling; 20.	Visible 098°-299°.
14006 *F 2737*	Palanan Point.	17° 08.4′ N 122° 30.5′ E	**Fl.W.** period 5s			Fiberglass structure.	
14007 *F 2735*	Maconacon.	17° 23.0′ N 122° 14.3′ E	**Fl.W.** period 5s			Fiberglass structure.	
14008 *F 2728*	Linao Point.	18° 22.3′ N 121° 35.8′ E	**Fl.W.** period 5s	36 **11**	9	White round metal tower, dwelling; 30.	Visible 104°-287°.
14009 *F 2728.5*	Aparri.	18° 21.7′ N 121° 37.7′ E	**Fl.W.** period 5s			Fiberglass structure.	
14012 *F 2729*	Port Irene.	18° 23.8′ N 122° 07.6′ E	**Fl.G.** period 5s		10	Concrete structure.	
14014 *F 2730.5*	Palawig.	18° 28.2′ N 122° 08.4′ E	**Fl.W.** period 5s		7	White concrete structure.	
14016 *F 2730*	Port San Vicente.	18° 30.6′ N 122° 08.3′ E	**Fl.R.** period 5s	31 **9**	7	White concrete column; 30.	
14020 *F 2732*	**Cape Engano.**	18° 34.9′ N 122° 08.1′ E	**Fl.W.** period 5s	327 **100**	**18**	Gray granite tower, white lantern, dwelling, red roof; 46.	Visible 061°-272°.
14024 *F 2742*	Baler, on beach.	15° 45.4′ N 121° 34.4′ E	**Fl.R.** period 5s		7	White concrete tower; 30.	
14024.6 *F 2743*	**Maligaya.**	14° 57.8′ N 121° 34.0′ E	**Fl.W.** period 5s		**15**		
14025 *F 2747.6*	Babaon River.	15° 01.7′ N 121° 52.1′ E	**Fl.W.** period 5s				
14026 *F 2747.5*	Polillo Island, Hook Bay.	14° 55.8′ N 121° 48.6′ E	**Fl.(3)W.** period 5s			Fiberglass structure.	

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			PHILIPPINES				
14028 *F 2746*	Polillo Harbor Range, front, on beach.	14° 43.0′ N 121° 56.2′ E	**F.R.**	30 **9**	7	Mast, white triangular daymark point up; 26.	
14032 *F 2746.1*	-Rear, 365 meters 145° from front.	14° 42.8′ N 121° 56.2′ E	**F.R.**	57 **17**	7	Church tower; 52.	Visible 110°-154°.
14036 *F 2747*	Burdeos, Polillo Island, E. side.	14° 51.1′ N 121° 58.7′ E	**Fl.W.** period 5s		7	Concrete structure.	
14036.4 *F 2747.65*	Bonifacio.	15° 02.7′ N 121° 58.4′ E	**Fl.G.** period 5s				
14036.5 *F 2747.67*	Bongliw.	15° 03.5′ N 121° 56.6′ E	**Fl.W.** period 5s	20 **6**	10	Concrete structure; 20.	
14037 *F 2747.7*	Buguitay.	14° 57.0′ N 122° 03.8′ E	**Fl.W.** period 5s			Concrete structure.	
14038 *F 2747.8*	Patnanongan Island.	14° 45.1′ N 122° 13.8′ E	**Fl.G.** period 5s			Concrete structure.	
14040 *F 2748*	Jamalig Island, NW side.	14° 42.2′ N 122° 19.9′ E	**F.R.**		6		Private.
14040.5 *F 2747.9*	-SW. point.	14° 41.8′ N 122° 18.9′ E	**Fl.W.** period 5s			Concrete structure.	
14040.7 *F 2748.5*	-S. side.	14° 41.1′ N 122° 23.0′ E	**Fl.W.** period 10s			Concrete structure.	
14044 *F 2749*	Dinahican Point.	14° 41.6′ N 121° 43.9′ E	**Fl.W.** period 5s		7	Concrete tower.	
14044.5 *F 2749.2*	Balobo.	14° 41.7′ N 121° 40.3′ E	**Fl.W.** period 7s		7	Concrete tower; 33.	
14045 *F 2749.5*	Puerto Real.	14° 40.3′ N 121° 36.6′ E	**F.R.**			Concrete tower; 33.	
14048 *F 2766*	**Tailon Island.**	14° 24.6′ N 122° 40.0′ E	**Fl.(2)W.** period 10s	60 **18**	**18**	White concrete column; 30.	
14050 *F 2767*	Panganiban.	14° 18.6′ N 122° 39.2′ E	**Fl.W.** period 5s			Fiberglass structure.	
14051 *F 2769*	Paracale.	14° 17.1′ N 122° 48.2′ E	**Fl.W.** period 5s			Fiberglass structure.	
14052 *F 2764*	**Capalonga.**	14° 19.8′ N 122° 30.8′ E	**Fl.R.** period 5s	32 **10**	**18**	White concrete tower; 26.	Visible 113°-152°.
14056 *F 2750*	Balliscan Island.	14° 14.6′ N 121° 54.0′ E	**Fl.W.** period 5s	55 **17**	12	White concrete column; 30.	
14060 *F 2757*	Mauban, on Malazor Point.	14° 12.1′ N 121° 45.1′ E	**Fl.R.** period 5s		10	Concrete structure.	
	ALABAT ISLAND:						
14063 *F 2755*	-Villa Norte.	14° 08.2′ N 122° 02.8′ E	**Fl.W.**			Concrete structure.	
14064 *F 2754*	-On beach at Alabat.	14° 06.1′ N 122° 00.6′ E	**Fl.R.** period 5s	35 **11**	7	White concrete tower; 30.	Visible 346°-095°.
14068 *F 2756*	-Perez.	14° 11.5′ N 121° 55.5′ E	**Fl.R.** period 5s	33 **10**	5	White concrete tower; 30.	Visible 331°-057°.
14070 *F 2756.5*	Sangirin Point. Tawig.	14° 11.3′ N 121° 54.6′ E	**Fl.W.** period 5s		12	Concrete structure.	
14072 *F 2758*	Atimonan, E. side of river entrance.	14° 00.1′ N 121° 55.8′ E	**Fl.W.** period 3s	13 **4**		White metal pipe.	A F.R. light is shown about 19 miles ESE., near Hondagua.

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			PHILIPPINES				
14074 *F 2759*	Gamau Point.	13° 57.4′ N 122° 01.5′ E	**Fl.(2)W.** period 5s		7	Concrete structure.	
14076 *F 2760*	**Silangan Pass.**	13° 59.9′ N 122° 10.9′ E	**Fl.(2)W.** period 5s	31 **9**	**18**	White concrete tower.	Visible 205°-271° and 038°-100°.
14080 *F 2762*	Hondaqua.	13° 56.8′ N 122° 14.4′ E	**F.R.**	148 **45**		Concrete beacon; 10.	
14084 *F 2772*	Canimo Island.	14° 07.7′ N 123° 03.1′ E	**Fl.W.** period 10s	138 **42**	12	White concrete tower; 26.	Visible 341°-264°.
14088 *F 2774*	Cabusao.	13° 44.0′ N 123° 06.9′ E	**Fl.(2)W.** period 5s	33 **10**	7	White metal framework tower; 26.	
14089 *F 2775*	Tarallo.	13° 43.7′ N 123° 12.9′ E	**Fl.W.** period 3s	39 **12**		Concrete structure.	
14090 *F 2775.5*	Tinambac.	13° 49.0′ N 123° 19.4′ E	**F.R.**			Green concrete tower.	
14092 *F 2778*	Ocata.	13° 59.0′ N 123° 49.5′ E	**Fl.W.** period 5s fl. 0.2s, ec. 4.8s	125 **38**	12	White cocrete tower; 33.	Visible 052°-296°.
14092.3 *F 2776*	Basot Island, N. point.	13° 57.5′ N 123° 51.4′ E	**Fl.W.** period 5s			Fiberglass structure.	
14093 *F 2778.5*	Gata.	13° 54.7′ N 123° 48.9′ E	**Fl.(4)W.** period 20s			Fiberglass structure.	
14095 *F 2779*	Colongcogong.	13° 43.4′ N 123° 58.7′ E	**Fl.W.** period 5s			Fiberglass structure.	
14096 *F 2784*	**Sialat Point.**	13° 39.8′ N 124° 01.6′ E	**Fl.W.** period 4s	355 **108**	**15**	White framework tower; 33.	Visible 323°-224°.
14100 *F 2786*	Calolbon.	13° 35.9′ N 124° 05.8′ E	**Fl.R.** period 10s	36 **11**	7	White concrete tower; 30.	Visible 318°-087°.
14104 *F 2788*	Virac, about 435 meters W. of Pandamon Point.	13° 35.0′ N 124° 14.1′ E	**Fl.R.** period 5s	38 **12**	10	White concrete tower; 23.	Visible 292°-018°.
14106 *F 2789*	**Bote**, Locot Bay.	13° 33.6′ N 124° 19.5′ E	**Fl.(2)W.** period 10s	39 **12**	**18**		
14108 *F 2790*	Baras.	13° 39.3′ N 124° 22.6′ E	**Fl.R.** period 5s	70 **21**	7	White concrete tower; 30.	
14112 *F 2794*	**Lolong Point.**	13° 56.8′ N 124° 21.3′ E	**Fl.W.** period 5s fl. 0.2s, ec. 4.8s	184 **56**	**22**	Metal tower, concrete platform; 98.	Visible 192°-321°.
14114 *F 2782*	Tabugoc Cove.	14° 03.2′ N 124° 14.1′ E	**Fl.W.** period 5s			Fiberglass structure.	
14116 *F 2780*	Pandan, on beach.	14° 03.1′ N 124° 10.2′ E	**Fl.R.** period 5s	35 **11**	12	White concrete tower; 30.	Visible 115°-196°.
14120 *F 2798*	Sabang, Lagonoy Gulf.	13° 43.2′ N 123° 34.5′ E	**Fl.W.** period 5s	52 **16**	10	White concrete tower; 30.	
14122 *F 2798.5*	Patitinan.	13° 33.5′ N 123° 32.4′ E	**Fl.(2)W.** period 5s				
14124 *F 2802*	Malinao Range, front.	13° 24.2′ N 123° 42.9′ E	**F.R.**	36 **11**	7	White concrete column; 23.	Visible 155°-275°.
14128 *F 2802.1*	-Rear, 1207 meters 238°55′ from front.	13° 23.9′ N 123° 42.4′ E	**Fl.W.** period 5s	60 **18**	7	Wooden framework tower.	
14129 *F 2800*	San Miguel Island.	13° 24.2′ N 123° 45.8′ E	**Fl.(2)G.** period 4s			Fiberglass structure.	

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			PHILIPPINES				
14129.4 *F 2813*	Bacacay.	13° 17.8′ N 123° 47.7′ E	**Fl.W.** period 5s	16 **5**			
14130 *F 2809.5*	Labcan Point, Batan Island.	13° 17.4′ N 123° 58.8′ E	**Iso.W.** period 4s			Fiberglass structure.	
14132 *F 2810*	Port Sula.	13° 13.4′ N 123° 52.3′ E	**Fl.R.** period 5s	53 **16**	7	White concrete post; 7.	
14133 *F 2504.2*	Siramag Bay.	13° 19.7′ N 123° 13.7′ E	**Fl.W.** period 3s	16 **5**	6	White metal tower; 16.	
14134 *F 2504*	Ragay Gulf, Laganac.	13° 20.5′ N 123° 12.9′ E	**Fl.(3)W.** period 10s			Fiberglass structure.	
14134.5 *F 2504.5*	-Salingogon.	13° 27.4′ N 123° 09.0′ E	**Fl.W.** period 5s			Fiberglass structure.	
14135 *F 2505*	-Pasacao.	13° 30.2′ N 123° 02.2′ E	**Fl.W.** period 5s			Fiberglass structure.	
14135.3 *F 2505.3*	-Guinayangan.	13° 53.8′ N 122° 27.1′ E	**Fl.(2)G.** period 5s			Fiberglass structure.	
14135.5 *F 2503.7*	-Bondoc Point.	13° 09.9′ N 122° 35.8′ E	**Fl.(2)W.** period 15s			Fiberglass structure.	
14136 *F 2808*	**Ungay Point.**	13° 10.7′ N 124° 12.9′ E	**Fl.W.** period 5s	307 **94**	**17**	White round metal tower; 33.	Visible 175°-047°.
14138 *F 2809*	Prieto Diaz.	13° 02.4′ N 124° 11.8′ E	**Fl.W.** period 15s			Fiberglass structure.	
14140 *F 2814*	Legaspi, Albay Gulf, N. of town.	13° 09.4′ N 123° 45.3′ E	**Fl.R.** period 5s	59 **18**	13	White fiberglass tower; 52.	Visible 190°-345°.
14144 *F 2818*	Port Gubat.	12° 55.5′ N 124° 07.6′ E	**Fl.W.** period 5s	39 **12**	10	White metal tower; 33.	Visible 246°-323°.
14145 *F 2818.4*	Barcelona.	12° 52.0′ N 124° 08.7′ E	**Fl.W.** period 10s			Fiberglass structure.	
14146 *F 2818.8*	Calayan Island, S. point.	19° 14.7′ N 121° 30.7′ E	**Fl.W.** period 5s			Fiberglass structure.	
14148 *F 2488*	**San Bernardino Island.**	12° 45.1′ N 124° 17.1′ E	**Fl.W.** period 10s fl. 0.2s, ec. 9.8s	207 **63**	**17**	White concrete tower; 39.	
14150 *F 2547*	Balusingan Bay.	12° 38.2′ N 124° 05.7′ E	**Fl.(2)W.** period 10s			Fiberglass structure.	
14152 *F 2492*	**Capul Island.**	12° 28.9′ N 124° 08.5′ E	**Fl.W.** period 5s	142 **43**	**17**	White concrete tower; 39.	Visible 026°-319°.
14156 *F 2494*	Calantas Rock.	12° 30.6′ N 124° 04.6′ E	**Fl.R.** period 5s	33 **10**	10	White concrete tower; 26.	Visible 201°-209° and 232°-111°.
14160 *F 2546*	Bulan.	12° 39.9′ N 123° 52.4′ E	**Fl.R.** period 5s	32 **10**	7	White concrete tower; 26.	Visible 355°-149°.
14164 *F 2536*	**Bagatao Island.**	12° 49.9′ N 123° 47.5′ E	**Fl.W.** period 5s	135 **41**	**17**	White round metal tower, dwelling; 30.	Visible seaward over an arc of 130°.
14168 *F 2538*	Sorsogon, Bagatao Island, W. head.	12° 50.1′ N 123° 47.5′ E	**Fl.R.** period 5s	43 **13**	10	Concrete tower; 23.	
14169 *F 2535.5*	Macalaya.	12° 52.8′ N 123° 46.3′ E	**Fl.(2)W.** period 10s			Fiberglass structure.	
14170 *F 2535*	-Pilar.	12° 53.3′ N 123° 39.8′ E	**Fl.(3)G.** period 3s			Fiberglass structure; 33.	
14172 *F 2544*	Casiguran.	12° 52.5′ N 124° 00.5′ E	**Fl.W.** period 5s	69 **21**	10	White metal tower; 33.	Visible 097°-248°.

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			PHILIPPINES				
14176 *F 2540*	Castilla, Dolagnan River entrance, N. side.	12° 56.8′ N 123° 52.9′ E	**Fl.W.** period 5s	49 **15**	7	White concrete tower; 33.	Visible 203°-358°.
14180 *F 2534*	Donsol, on E. bank of river, W. head.	12° 54.3′ N 123° 35.5′ E	**Fl.R.** period 5s	37 **11**	10	White wooden framework tower; 33.	Visible 332°-118°.
14182 *F 2503.8*	Cabarian Point.	13° 00.5′ N 123° 19.2′ E	**Fl.W.** period 10s	151 **46**	10	White metal tower; 16.	
14184 *F 2580*	**Baltasar Island.**	13° 13.1′ N 121° 48.3′ E	**Fl.W.** period 6s	417 **127**	**23**	White round metal tower; 62.	
14188 *F 2584*	Gasan, Tiguion River, S. side.	13° 19.6′ N 121° 50.7′ E	**Fl.W.** period 10s	37 **11**	8	White concrete tower; 33.	Visible 347°-130°.
14192 *F 2586*	Boac, on beach at Laylay River.	13° 26.2′ N 121° 49.2′ E	**Fl.R.** period 5s	28 **9**	8	White concrete tower; 23.	
14196 *F 2602*	Tayabas River Entrance.	13° 53.8′ N 121° 36.1′ E	**Fl.(2)W.** period 5s		10	White concrete tower; 30.	Visible 294°-027°.
14200 *F 2588*	Balanacan.	13° 32.0′ N 121° 51.9′ E	**Fl.(2)W.** period 15s	45 **14**	12	White concrete tower; 26.	Partially obscured by shore.
14204 *F 2590*	Santa Cruz Harbor, W. side.	13° 30.0′ N 122° 03.1′ E	**Fl.W.** period 5s	24 **7**	7	White concrete tower; 23.	Visible through both channels from seaward.
14208 *F 2594*	**Catanauan.**	13° 35.4′ N 122° 19.3′ E	**Fl.R.** period 5s	36 **11**	**18**	White concrete tower; 33.	Visible 346°-071°.
14210 *F 2596*	General Luna.	13° 41.1′ N 122° 10.3′ E	**Fl.W.** period 5s	49 **15**	7	Concrete structure.	
14212 *F 2598*	Macalelon River, entrance, N. side.	13° 44.8′ N 122° 08.0′ E	**Fl.(2)R.** period 5s	48 **15**	8	White concrete tower; 30.	Visible seaward over an arc of 93°.
14216 *F 2600*	**Pitogo.**	13° 46.9′ N 122° 05.3′ E	**Fl.(2)W.** period 5s	79 **24**	**15**	White concrete tower; 33.	Visible 328°-075°.
14218 *F 2603*	Locoloco Point.	13° 39.3′ N 121° 25.2′ E	**Fl.W.** period 3s			Fiberglass beacon.	
14220 *F 2604*	**Malabrigo Point.**	13° 35.9′ N 121° 15.7′ E	**Fl.(3)W.** period 15s	184 **56**	**20**	White round tower, white dwelling; 56.	Visible 274°-134°.
14221 *F 2604.2*	Verde Island, NE. point.	13° 34.3′ N 121° 05.1′ E	**Fl.W.** period 3s		10	Concrete structure.	
14222 *F 2604.6*	Arenas Point.	13° 37.3′ N 121° 04.9′ E	**Fl.W.** period 5s		10	Concrete beacon.	
14224 *F 2607*	Malajibomanoc Islet.	13° 37.6′ N 120° 57.9′ E	**Fl.(3)W.** period 15s	44 **13**	10	White concrete tower; 33.	Visible 133°-088°.
14226 *F 2604.8*	Matoca Point.	13° 38.0′ N 121° 02.2′ E	**Fl.W.** period 5s		10	Aluminum structure.	
14227 *F 2605*	-Shell Refinery Wharf Range, front.	13° 43.4′ N 121° 03.4′ E	**Q.R.**			Red tower, yellow bands.	
14227.1 *F 2605.1*	-Rear, 350 meters 141° from front.	13° 43.2′ N 121° 03.5′ E	**F.R.**			Red tower, yellow bands.	
14228 *F 2605.4*	Batangas, on wide portion of pier.	13° 45.4′ N 121° 02.5′ E	**Fl.(3)W.** period 10s	30 **9**	7	Concrete beacon; 10.	
14229 *F 2604.9*	-Building.	13° 45.4′ N 121° 02.6′ E	**Fl.W.** period 3s	39 **12**	10	Beacon.	
14232 *F 2606.6*	Mainaga.	13° 45.7′ N 120° 57.3′ E	**Fl.G.** period 5s	83 **25**	7	Concrete beacon; 10.	
14234 *F 2607.5*	Mabini.	13° 45.6′ N 120° 55.6′ E	**Fl.W.** period 5s				

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			PHILIPPINES				
14236 *F 2608*	Lemery (Taal), 27 meters from beach.	13° 52.7′ N 120° 54.7′ E	**Fl.R.** period 5s	29 **9**	7	White concrete column; 23.	
14240 *F 2610*	Balayan, on beach.	13° 56.3′ N 120° 44.3′ E	**F.R.**	36 **11**	7	White frame tower; 33.	
14244 *F 2614*	Cape Santiago.	13° 46.3′ N 120° 39.2′ E	**Fl.W.** period 5s	89 **27**	11	White round metal tower; 52.	Visible 252°-150°.
14248 *F 2616*	**Golo Island.**	13° 37.6′ N 120° 25.2′ E	**Fl.W.** period 7s	186 **57**	**18**	Concrete tower; 36.	Visible 185°-096°.
14252 *F 2618*	Tilic.	13° 49.1′ N 120° 12.1′ E	**Fl.R.** period 5s		7	Concrete tower; 33.	Visible 164°54′-237°06′.
14256 *F 2620*	**Cabra Island.**	13° 53.3′ N 120° 01.4′ E	**Fl.(2)W.** period 10s	216 **66**	**22**	White square brick tower, white dwelling; 66.	Visible 320°-253°.
14260 *F 2624*	Fortune Island, summit.	14° 03.3′ N 120° 29.5′ E	**Fl.W.** period 10s	415 **126**	10	White concrete tower; 30.	
14261 *F 2615*	Balatoc, on reef.	13° 50.4′ N 120° 36.3′ E	**Fl.W.** period 5s			Concrete structure.	
14262 *F 2626*	Nasugbu.	14° 05.0′ N 120° 37.3′ E	**Fl.G.** period 5s		7	Concrete structure.	
14264 *F 2632*	La Monja Island.	14° 22.5′ N 120° 31.3′ E	**Fl.W.** period 5s	128 **39**	9	Concrete-wooden platform.	
	MANILA BAY:						
14268 *F 2630*	-Mariveles, at foot of pier.	14° 25.9′ N 120° 29.1′ E	**Fl.(2)G.** period 10s	40 **12**	7	Concrete tower; 36.	
14270 *F 2631*	-Sisiman, on Gorda Point.	14° 25.4′ N 120° 31.2′ E	**Fl.W.** period 5s		7	White concrete tower.	
14272 *F 2634*	**-Corregidor Island.**	14° 22.8′ N 120° 34.6′ E	**Fl.(3)W.** period 20s	633 **193**	**23**	White round tower, white dwelling; 49.	Visible 192°-110°.
14274 *F 2634.5*	-Calungpang Point.	14° 16.3′ N 120° 37.9′ E	**Fl.G.** period 5s			Concrete structure.	
14276 *F 2635*	--El Fraile.	14° 18.3′ N 120° 37.8′ E	**Fl.W.** period 5s		10	Metal tower, fort.	
14280 *F 2635.5*	-Puerto Azul.	14° 17.0′ N 120° 41.0′ E	**Fl.G.** period 5s			Concrete structure.	
14282 *F 2644*	-Cavite.	14° 19.1′ N 120° 45.0′ E	**Fl.(2)W.** period 5s	49 **15**	**15**		
14284 *F 2643*	San Nicolas Shoals.	14° 26.2′ N 120° 45.9′ E	**Fl.R.** period 5s	36 **11**	7	White round metal tower.	
14286 *F 2645*	Cavite City.	14° 28.7′ N 120° 53.4′ E	**Fl.G.** period 5s			Metal structure.	
14286.2 *F 2645.9*	-Canacao Bay, Fort San Felipe.	14° 28.8′ N 120° 55.4′ E	**Fl.(2)R.** period 5s	16 **5**	3	Concrete pile beacon.	
14287 *F 2645.5*	--CBB Wharf.	14° 29.8′ N 120° 55.0′ E	**Fl.R.** period 5s			Metal structure.	
14287.3 *F 2645.8*	--San Antonio.	14° 29.3′ N 120° 54.5′ E	**Fl.(2)R.** period 3s	36 **11**			
14288 *F 2647*	--**Sangley Point** AVIATION LIGHT.	14° 29.8′ N 120° 55.0′ E	**Al.W.G.** period 10s	120 **37**	**15**	Tower; 108.	Oc.R. 2s 47m on radio mast 0.8 mile SW.
14288.1 *F 2647.2*	--Heracleo Alano Naval Base.	14° 29.8′ N 120° 55.3′ E	**Fl.(2)R.** period 5s	16 **5**	3	Concrete pile beacon.	

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			PHILIPPINES				
14292 *F 2648*	-AVIATION LIGHT Manila International Airport.	14° 31.3′ N 121° 01.2′ E	**Al.W.G.** period 10s	180 **55**	10	Concrete water tank; 112.	
	-Manila Harbor:						
14296 *F 2662*	--Yacht basin entrance, jetty spur, head.	14° 33.8′ N 120° 58.8′ E	**Fl.R.** period 5s	35 **11**	7	White concrete column; 26.	
14300 *F 2663*	--Detached jetty, SW. head.	14° 33.8′ N 120° 58.9′ E	**Fl.G.** period 5s	23 **7**	7	Gray concrete pyramid; 13.	
14304 *F 2650*	--Napindan, outlet of Pasig River from Laguna de Bay.	14° 31.3′ N 121° 06.9′ E	**Fl.R.** period 5s	30 **9**	7	White concrete column; 30.	
14308 *F 2660*	S. breakwater, S. head.	14° 33.9′ N 120° 57.7′ E	**Fl.G.** period 5s	24 **7**	7	White concrete column, triangular daymark point up; 16.	
14312 *F 2660.2*	-N. head.	14° 34.3′ N 120° 57.4′ E	**Fl.R.** period 5s	36 **11**	7	White concrete column; 36.	
14316 *F 2654*	W. breakwater, S. head.	14° 34.4′ N 120° 57.3′ E	**Fl.G.** period 3s		7	Metal tower; 26.	
14320 *F 2653*	--Custom House.	14° 35.2′ N 120° 58.1′ E	**Fl.R.** period 5s	198 **60**	10	Tower, building.	Visible 322°-130°.
14321 *F 2653.5*	HPCG Wharf.	14° 34.9′ N 120° 58.3′ E	**Fl.W.** period 10s	105 **32**			
14324 *F 2669*	**--Pasig River.**	14° 35.8′ N 120° 57.6′ E	**Fl.W.** period 5s	49 **15**	**15**	White round tower, dwelling; 46.	
14328 *F 2670*	--Entrance, N. side of International Port Basin.	14° 36.4′ N 120° 56.0′ E	**Fl.G.** period 5s	39 **12**	7	Beacon, triangular daymark point up.	
14332 *F 2670.5*	--Entrance, S. side of International Port Basin.	14° 36.2′ N 120° 56.0′ E	**Fl.R.** period 5s	36 **11**	7	Beacon, square daymark.	
14334 *F 2670.8*	--N. breakwater, head.	14° 37.1′ N 120° 56.6′ E	**Fl.R.** period 5s		6	Beacon, square daymark.	
	MANILA BAY:						
	-Manila Harbor:						
14334.8 *F 2642.6*	--Bulacan River.	14° 42.0′ N 120° 52.1′ E	**Fl.W.** period 5s			White metal tower; 33.	
14335 *F 2642.4*	--Pamarauan.	14° 45.4′ N 120° 48.9′ E	**Fl.(2)W.** period 8s	33 **10**		Metal structure; 33.	
14336.2	--Hagonoy River.	14° 46.2′ N 120° 41.1′ E	**Fl.W.** period 5s				
14340 *F 2640*	-Luzon Point, pier, head.	14° 32.0′ N 120° 36.5′ E	**F.R.**				
14344 *F 2636*	-Lokanin Point, dolphin No 1.	14° 28.1′ N 120° 36.4′ E	**F.W.**	19 **6**		Dolphin, black square daymark.	Occasional. **Radar reflector.**
14352 *F 2639*	--No 2B Range, front.	14° 28.9′ N 120° 36.5′ E	**F.G.**	63 **19**		Oil tank.	Occasional.
14356 *F 2639.1*	---Rear, No 2A, about 105 meters 285°12′ from front.	14° 28.9′ N 120° 36.4′ E	**F.G.**	85 **26**		Oil tank.	Occasional.
14360 *F 2672.8*	Cabayoc Point.	14° 37.1′ N 120° 22.3′ E	**Oc.R.** period 2s lt. 1.5s, ec. 0.5s **F.R.** (vert.)			Framework tower.	

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			PHILIPPINES				
	SUBIC BAY:						
14364 *F 2673*	**-Sueste Point.**	14° 45.1′ N 120° 11.3′ E	**Fl.W.** period 5s	207 **63**	**20**	White round metal tower, dwelling, red roof; 30.	Visible 216°-048°.
14365	-Morong.	14° 41.8′ N 120° 15.0′ E	**Fl.W.** period 5s				
14366 *F 2675.8*	-Grande Island.	14° 46.5′ N 120° 13.4′ E	**Fl.(2)W.** period 10s		12	White metal tower.	
14368 *F 2673.4*	-Ilanin Bay.	14° 45.9′ N 120° 15.2′ E	**Iso.W.** period 6s	50 **15**	8	Pile structure, red and white checkered diamond daymark.	Intensified bearing 141°.
14372 *F 2674*	-Cubi point AVIATION LIGHT.	14° 47.9′ N 120° 16.0′ E	**Al.Fl.W.G.**				
14372.5 *F 2675.4*	-POL Pier.	14° 48.5′ N 120° 17.6′ E	**Fl.R.** period 5s				
14372.8 *F 2675.3*	-Rivera Wharf.	14° 48.8′ N 120° 17.3′ E	**Fl.R.** period 5s				
14374 *F 2675.45*	-Marine Terminal Approach, SE.	14° 49.0′ N 120° 17.6′ E	**Fl.R.** period 5s				
14374.1 *F 2675.46*	--NW.	14° 49.0′ N 120° 17.6′ E	**Fl.R.** period 5s				
14374.7 *F 2675.5*	-Yacht Club, West.	14° 49.2′ N 120° 17.4′ E	**Fl.G.** period 4s				
14374.8 *F 2675.52*	--East.	14° 49.2′ N 120° 17.5′ E	**Fl.R.** period 4s				
14376 *F 2675*	-Kalaklan Point.	14° 49.4′ N 120° 16.1′ E	**F.W.R.G.**	77 **23**	4	White concrete tower; 33.	R. 042°44′-044°44′, W.-050°44′, G.-052°44′.
14377 *F 2676*	-Mayagna Island.	14° 49.9′ N 120° 14.1′ E	**Fl.G.** period 6s			Concrete structure.	
14380 *F 2680*	**Capones.**	14° 54.9′ N 120° 00.5′ E	**Fl.(3)W.** period 15s	243 **74**	**22**	White concrete tower, dwelling; 56.	Visible 303°-243°.
14381 *F 2677*	Botolan.	15° 14.0′ N 120° 00.7′ E	**Fl.(3)W.** period 15s			Fiberglass structure.	
14384 *F 2682*	**Palauig Point.**	15° 25.8′ N 119° 54.1′ E	**Fl.(2)W.** period 10s	89 **27**	**15**	White metal framework tower; 30.	Visible 330°-180°.
14388 *F 2684*	**Hermana Mayor Island.**	15° 47.5′ N 119° 47.8′ E	**Fl.W.** period 5s	157 **48**	**20**	White concrete tower, dwelling; 30.	Visible 340°-165°.
14390 *F 2686*	Cabaongan.	16° 00.4′ N 119° 45.7′ E	**Fl.(3)W.** period 15s			Fiberglass structure.	
14391 *F 2686.6*	Sabangan Point.	16° 07.9′ N 119° 46.6′ E	**Fl.G.** period 5s		10	Concrete structure.	
14392 *F 2688*	**Cape Bolinao.**	16° 18.3′ N 119° 47.1′ E	**Fl.(2)W.** period 10s	292 **89**	**22**	White tower; 89.	Visible 017°-215°.
14396 *F 2690*	**Bolinao Harbor.**	16° 22.7′ N 119° 54.9′ E	**Fl.W.** period 5s	85 **26**	**15**	Concrete column, white square daymark; 43.	
14396.2 *F 2690.5*	Anda.	16° 18.8′ N 120° 00.8′ E	**Fl.G.** period 5s			Fiberglass structure.	
14397 *F 2689*	Silaqui Island.	16° 26.7′ N 119° 55.3′ E	**Fl.(2)W.** period 10s			Fiberglass structure.	
14398 *F 2691*	Lucap.	16° 11.6′ N 120° 00.2′ E	**Fl.G.** period 5s		10	Concrete structure.	

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			PHILIPPINES				
14399 *F 2692*	Portuguese Point.	16° 04.6′ N 120° 06.7′ E	**Fl.R.** period 5s		12	Concrete mast; 33.	
14400 *F 2694*	**Dagupan.**	16° 04.6′ N 120° 20.5′ E	**Fl.W.** period 5s	47 **14**	**15**	White concrete house; 16.	
14404	AVIATION LIGHT, about 914 meters E. of Dagupan.	16° 04.5′ N 120° 21.0′ E	**F.R.**				
14405 *F 2696*	Damortis.	16° 14.4′ N 120° 24.2′ E	**Fl.R.** period 5s	39 **12**	7	Concrete tower; 33.	
14406 *F 2697*	Santa Rita.	16° 21.3′ N 120° 20.4′ E	**Fl.R.** period 5s		7	Concrete structure.	
14408 *F 2698*	**San Fernando Point.**	16° 36.9′ N 120° 16.9′ E	**Fl.(2)W.** period 10s	107 **33**	**20**	White round metal tower, dwelling; 26.	
14412 *F 2702*	San Fernando Range, front.	16° 37.0′ N 120° 18.7′ E	**F.G.**	21 **6**	7	Orange mast, orange triangular daymark point up, black stripe; 10.	Difficult to distinguish when unlit.
14416 *F 2702.1*	-Rear, about 640 meters 144°36′ from front.	16° 36.7′ N 120° 18.9′ E	**F.G.**	110 **34**	7	Orange mast, triangular daymark point down.	Difficult to distinguish when unlit.
14424 *F 2705*	Darigayos Point.	16° 49.2′ N 120° 20.2′ E	**Fl.G.** period 5s	33 **10**	12	Concrete structure.	
14428 *F 2708*	Tagudin NW. of town.	16° 57.3′ N 120° 26.2′ E	**Fl.(2)R.** period 5s	26 **8**	7	White concrete column; 23.	
14432 *F 2712*	Candon, on beach.	17° 11.3′ N 120° 25.3′ E	**Fl.R.** period 5s	48 **15**	7	White concrete tower; 33.	Visible 350°-123°.
14434 *F 2713*	Apatot.	17° 19.9′ N 120° 27.6′ E	**Iso.R.** period 5s			Fiberglass structure.	
14436 *F 2714*	Pandan, on beach near town.	17° 32.0′ N 120° 22.1′ E	**Fl.G.** period 5s	41 **12**	9	White concrete tower; 26.	Visible 325°-120°.
14438 *F 2715*	Puropingit.	17° 41.4′ N 120° 21.4′ E	**Fl.W.** period 10s			Fiberglass structure.	
14440 *F 2716*	**Salomangue.**	17° 46.3′ N 120° 25.6′ E	**Fl.R.** period 5s	33 **10**	**15**	White framework tower; 30.	Visible 058°-114°.
14442 *F 2718*	Cabangtalan.	17° 51.3′ N 120° 26.7′ E	**Fl.W.** period 5s			Fiberglass structure.	
14448 *F 2568*	**Cape Calavite.**	13° 26.8′ N 120° 18.0′ E	**Fl.W.** period 5s	137 **42**	**18**	White round metal tower; 62.	Visible 349°-203°.
14450 *F 2569*	Tubili Point.	13° 13.6′ N 120° 31.6′ E	**Fl.(4)W.** period 20s			Fiberglass structure.	
14452 *F 2560*	**Escarceo Point.**	13° 31.3′ N 120° 59.5′ E	**Fl.W.** period 10s	136 **41**	**18**	White concrete house; 46.	Visible 112°-020°.
14456 *F 2562*	Port Galera.	13° 30.8′ N 120° 57.7′ E	**Fl.R.** period 3s	60 **18**	7	White triangular beacon, black stripe; 10.	
14460 *F 2564*	Varadero Bay.	13° 30.1′ N 120° 57.3′ E	**Fl.G.** period 5s	85 **26**	7	White concrete column; 26.	
14462 *F 2555*	Herrera.	13° 14.2′ N 121° 25.2′ E	**Fl.W.** period 5s	151 **46**	6	Metal pipe, platform; 26.	
14464 *F 2558*	Calapan, Government Dock, end.	13° 25.8′ N 121° 11.7′ E	**Fl.W.** period 5s	36 **11**	10	White concrete column; 24.	Visible 071°-198°.
14465 *F 2566*	Wawa.	13° 27.7′ N 120° 44.9′ E	**Fl.W.** period 5s		12	Concrete structure.	
14466 *F 2556*	Sta Cruz.	13° 18.6′ N 121° 20.1′ E	**Fl.R.** period 10s			Fiberglass structure.	

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14467 *F 2554.5*	Tuntung Point.	13° 09.2′ N 121° 26.4′ E	**Fl.(2)W.** period 5s	10 **3**		Metal pipe, white platform; 10.	
14468 *F 2554*	**Dumali Point.**	13° 07.2′ N 121° 33.4′ E	**Fl.(2)W.** period 10s	173 **53**	**20**	White round metal tower, dwelling, red roof; 62.	Visible 132°-357°.
14469 *F 2553*	Bugol Point.	13° 04.0′ N 121° 31.2′ E	**Fl.W.** period 5s		3		
14470 *F 2551*	Dayugan Point.	12° 36.4′ N 121° 33.3′ E	**Fl.W.** period 10s			Fiberglass structure.	
14472 *F 2550*	Bongabong.	12° 44.9′ N 121° 29.3′ E	**Fl.W.** period 10s fl. 0.7s, ec. 9.3s	42 **13**	9	White fiberglass tower; 33.	Visible 182°-309°.
14472.5 *F 2549.5*	Bansud, on Bonsod Point.	12° 51.5′ N 121° 29.4′ E	**Fl.W.** period 5s			Concrete structure.	
	MAESTER DE CAMPO ISLAND:						
14473 *F 2532*	-Tunggo Point.	12° 54.2′ N 121° 43.3′ E	**Fl.W.** period 5s			Concrete structure.	
14474 *F 2531*	-Port Concepcion.	12° 54.1′ N 121° 43.5′ E	**Fl.R.** period 5s		12	Concrete structure.	
14475 *F 2533*	-Mahaba Point.	12° 55.8′ N 121° 41.0′ E	**Fl.W.** period 7s	33 **10**	12	White metal and fiberglass tower; 33.	
14475.4 *F 2549.3*	Balete.	12° 54.5′ N 121° 28.9′ E	**Fl.R.** period 5s			Metal structure.	
14476 *F 2552*	Pinamalayan, on beach at town.	13° 02.3′ N 121° 29.7′ E	**Fl.R.** period 5s		7	White metal and fiberglass tower; 33.	Visible 231°-357°.
14477 *F 2287.75*	Sibolo Island.	12° 05.8′ N 121° 34.6′ E	**Fl.W.** period 10s	184 **56**	10	White metal tower; 33.	
14478 *F 2287.7*	Alegria.	12° 00.9′ N 121° 24.1′ E	**Fl.W.** period 5s	361 **110**	10	White metal tower; 33.	
14480 *F 2576*	**Ambulong Island.**	12° 12.5′ N 121° 00.6′ E	**Fl.W.** period 5s	446 **136**	**21**	White metal framework tower; 53.	Visible 292°-160°. Structure obscured by trees.
14484 *F 2575*	Caminawit Point.	12° 19.8′ N 121° 05.3′ E	**Fl.W.** period 5s	33 **10**	7	White concrete tower.	F.R. 34m light shown from tower about 1.6 miles NW.
14486 *F 2574.5*	Bantac Island.	12° 13.3′ N 120° 23.5′ E	**Fl.W.** period 5s			Fiberglass structure.	
14488 *F 2570*	Sablayan Point.	12° 49.8′ N 120° 46.0′ E	**Fl.(3)W.** period 10s	157 **48**	9	Concrete tower; 38.	Visible 344°-175°.
14492 *F 2574*	**Apo Island.**	12° 39.7′ N 120° 24.9′ E	**Fl.W.** period 10s	115 **35**	**17**	White tower.	
14494 *F 2173*	Decabaito Island.	11° 37.8′ N 119° 58.2′ E	**Fl.(2)W.** period 5s			Fiberglass tower.	
14496 *F 2174*	Culion Island, fort at N. point of entrance to Culion.	11° 53.5′ N 120° 01.5′ E	**Fl.R.** period 5s	115 **35**	7	Fort, post; 10.	Visible 154°-293°.
14497 *F 2176*	Delian Island.	11° 49.7′ N 120° 18.7′ E	**Fl.W.** period 6s			Fiberglass structure.	
14497.2 *F 2179.2*	Coron Harbor, Coron Point.	11° 59.0′ N 120° 13.5′ E	**Fl.W.** period 5s			Fiberglass structure.	
14497.4 *F 2180*	-On reef.	11° 59.5′ N 120° 12.7′ E	**F.R.**	30 **9**			
14498 *F 2287.5*	Caluya Island.	11° 54.5′ N 121° 34.8′ E	**Fl.(2)W.** period 15s			Fiberglass structure.	

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14498.5 *F 2287.4*	Dinago Point.	11° 50.3′ N 121° 25.0′ E	**Fl.W.** period 5s			Metal and fiberglass structure.	
14499 *F 2287.2*	Malaqui Island.	11° 51.7′ N 121° 17.6′ E	**Fl.W.** period 10s		10	White metal and fiberglass tower; 33.	
14500 *F 2288*	**Maniguin Island.**	11° 36.5′ N 121° 41.2′ E	**Fl.(2)W.** period 10s	191 **58**	**20**	White round masonry tower; 98.	
14504 *F 2287*	Manamoc Island, W. side.	11° 18.5′ N 120° 40.4′ E	**Fl.(2)W.** period 10s	200 **61**	10	Concrete tower; 39.	
14506 *F 2286.5*	Agutaya Island.	11° 08.8′ N 120° 56.4′ E	**Fl.W.** period 5s		8	Concrete pole.	
14508 *F 2286*	Cuyo Island, pier on W. side.	10° 51.2′ N 121° 00.3′ E	**Fl.(2)W.** period 10s	42 **13**	7	Concrete tower; 26.	
14512 *F 2338*	Manucan Islet.	9° 38.5′ N 121° 20.0′ E	**Fl.W.** period 5s	70 **21**	14	Octagonal concrete column.	
14512.1 *F 2339*	Cagayancillo.	9° 34.7′ N 121° 11.4′ E	**Fl.(2)W.** period 5s				
14513 *F 2172*	Palawan, Tarumpitao.	9° 02.6′ N 117° 37.9′ E	**Fl.(2)W.** period 10s			Red mast, white bands; 121.	
14514 *F 2171*	Malanut Bay, Quezon.	9° 14.4′ N 117° 59.7′ E	**Fl.W.** period 5s fl. 0.7s, ec. 4.3s	50 **15**	9	White fiberglass tower; 29.	
14514.7 *F 2169*	Taytay.	10° 49.7′ N 119° 30.7′ E	**Fl.W.** period 5s	30 **9**	9	Fiberglass structure.	
14515 *F 2170*	Cagnipa Island.	10° 30.6′ N 119° 04.5′ E	**Fl.(2)W.** period 10s			Fiberglass structure.	
14516 *F 2168*	**Langoy Island.**	10° 29.6′ N 119° 59.8′ E	**Fl.W.** period 5s	364 **111**	**16**	White round metal tower; 36.	
14516.8 *F 2169.25*	Lalutaya.	11° 21.8′ N 119° 24.9′ E	**Fl.W.** period 5s			Fiberglass structure.	
14517 *F 2169.5*	Barbacan Point.	10° 18.9′ N 119° 21.8′ E	**Fl.W.** period 5s		9	Fiberglass structure; 30.	
14518 *F 2166*	Bold Point.	10° 01.6′ N 119° 08.5′ E	**Fl.(2)W.** period 10s			Fiberglass structure.	
14518.5 *F 2165*	Honda Bay.	9° 50.6′ N 118° 44.7′ E	**Fl.W.** period 5s		7	Tower; 39.	
14519 *F 2167*	**Camungyan Island.**	10° 09.3′ N 118° 45.9′ E	**Fl.(3)W.** period 15s	171 **52**	**17**	Fiberglass structure; 16.	
14520 *F 2164*	Puerto Princesa, Tidepole Point.	9° 43.8′ N 118° 44.0′ E	**Fl.R.** period 5s	43 **13**	10	White tower; 25.	Visible 285°-326°. 2 F.R. (vert.) on radio mast 550 meters NE. R. Lts. on water tank 0.8 mile NW.
14524 *F 2163*	**-Bancaobancaon Point.**	9° 43.4′ N 118° 46.1′ E	**Fl.(3)W.** period 5s	35 **11**	**15**	White concrete tower; 35.	Visible 225°-080° except where obscured by vegetation.
14526 *F 2162*	Calver Point.	9° 21.5′ N 118° 32.2′ E	**Fl.W.** period 5s			Metal structure.	
14527 *F 2161*	Panacan.	9° 14.8′ N 118° 24.4′ E	**Fl.G.** period 5s			White fiberglass tower; 30.	
14527.5 *F 2160.5*	Pescado Point.	8° 57.1′ N 118° 02.6′ E	**Fl.W.** period 5s				
14528 *F 2340*	**Tubbataha Reefs.**	8° 44.9′ N 119° 49.2′ E	**Fl.W.** period 5s		**15**	White round stone structure, white square building.	

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			PHILIPPINES				
14532 *F 2160*	**Sir J. Brooke Point.**	8° 46.1′ N 117° 50.2′ E	**Fl.W.** period 5s	35 **11**	**15**	Pole on SE. corner of block house; 15.	Visible seaward over arc of 180°.
14534 *F 2158*	Comiran Island.	7° 55.0′ N 117° 13.2′ E	**Fl.W.** period 5s		7	Metal structure.	
14536 *F 2156*	**Espina Point.**	7° 59.5′ N 117° 04.4′ E	**Fl.W.** period 5s	131 **40**	**15**	White concrete tower, dwelling; 33.	Visible 063°-336°.
14540 *F 2152*	**Cape Melville.**	7° 49.0′ N 117° 00.1′ E	**Fl.W.** period 5s	296 **90**	**20**	Yellow octagonal masonry tower, dwelling, white lantern; 89.	Visible 245°-150°.
14542 *F 2159*	South Mangsee Island.	7° 30.6′ N 117° 18.6′ E	**Fl.W.** period 5s			Metal structure.	
14544 *F 2142*	Tandotao Point, on Cagayan Sulu Island.	6° 58.1′ N 118° 31.5′ E	**Fl.W.** period 5s	387 **118**	12	White concrete tower; 32.	
14548 *F 2520*	**Apunan Point.**	12° 28.7′ N 122° 17.2′ E	**Fl.W.** period 10s	97 **30**	**17**	Metal framework tower, white dwelling; 62.	Visible 264°-133°.
14550 *F 2519*	Calabago Point.	12° 33.2′ N 122° 19.3′ E	**Fl.W.** period 7s				
	ROMBLON HARBOR:						
14552 *F 2516*	-Binagon Point, reef, head.	12° 34.8′ N 122° 15.8′ E	**Fl.G.** period 5s	15 **5**	7	Post, square concrete beacon; 16.	
14556 *F 2517*	-Agbatan Point, reef, head.	12° 34.7′ N 122° 16.0′ E	**Fl.R.** period 5s		7		Shown until 2200.
14560 *F 2514*	-Sabang Point, 274 meters from extremity.	12° 35.6′ N 122° 16.0′ E	**Fl.W.** period 5s	116 **35**	5	White concrete tower, dwelling; 16.	Visible in approaching Romblon through all three channels. Obscured on E. side of N. channel at 197°.
14564 *F 2527.8*	Nalumsan Point.	12° 34.1′ N 122° 08.2′ E	**Fl.W.** period 5s		7	Concrete tower.	
14566 *F 2528.5*	Biaringan Island.	12° 37.6′ N 122° 09.9′ E	**Fl.(2)W.** period 10s			Fiberglass structure.	
14568 *F 2529*	**Gorda Point.**	12° 39.6′ N 122° 09.2′ E	**Fl.(3)W.** period 15s	212 **65**	**22**	White metal framework tower; 62.	Visible 110°-333°, except where obscured by Guindauahan Island.
14572 *F 2530*	**Simara Island.**	12° 47.9′ N 122° 01.2′ E	**Fl.W.** period 5s	66 **20**	**16**	White concrete tower; 32.	Visible 309°-215°.
14576 *F 2528*	Carmen Bay.	12° 37.1′ N 122° 07.3′ E	**Fl.W.** period 3s	36 **11**	7	Concrete tower.	Visible 262°-317°.
14578 *F 2523*	Bantiano Point.	12° 25.2′ N 121° 59.4′ E	**F.R.**			Concrete tower; 33.	
14580 *F 2524*	Tablas Island, on beach at Odiongan.	12° 24.2′ N 121° 58.9′ E	**Fl.R.** period 5s	32 **10**	7	White concrete tower; 30.	Visible 096°-194°.
14582 *F 2525*	Guinawayan.	12° 17.6′ N 121° 55.5′ E	**Fl.W.** period 7s				
14584 *F 2526*	**Looc Reef.**	12° 14.8′ N 121° 58.8′ E	**Fl.G.** period 5s	46 **14**	**18**	White concrete tower; 46.	Visible 062°-127°.
14588 *F 2527*	Port Malbog.	12° 13.6′ N 122° 00.2′ E	**Fl.R.** period 5s		6	Concrete tower; 16.	
14592 *F 2527.6*	Cabalian Point.	12° 06.1′ N 122° 01.0′ E	**Fl.W.** period 5s	122 **37**	9	Concrete mast; 30.	Visible 238°-144°.
14593 *F 2527.7*	Calaton Point.	12° 10.8′ N 122° 04.1′ E	**Fl.W.** period 10s			Fiberglass structure.	

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			PHILIPPINES				
14594 *F 2511*	Magdiwang.	12° 29.5′ N 122° 29.5′ E	**Fl.W.** period 5s		12	Concrete beacon.	
14596 *F 2512*	**Cauit Point.**	12° 16.1′ N 122° 38.0′ E	**Fl.W.** period 5s	33 **10**	**16**	White concrete tower; 33.	
14596.5 *F 2512.5*	Cresta de Gallo Island.	12° 11.1′ N 122° 41.8′ E	**Fl.W.** period 5s			Metal structure.	
14597 *F 2513*	Cajidiocan Point.	12° 21.7′ N 122° 41.1′ E	**Fl.(2)W.** period 5s			Fiberglass structure.	
14598 *F 2292.5*	Pagbulungan Point.	12° 13.0′ N 123° 13.7′ E	**Fl.G.** period 5s			Fiberglass structure.	
14600 *F 2510*	**Bugui Point.**	12° 36.0′ N 123° 14.3′ E	**Fl.W.** period 10s	218 **66**	**20**	White round masonry tower, gray dwelling; 49.	Visible 008°-277°.
14602 *F 2503*	Aguja Point.	12° 41.7′ N 123° 23.1′ E	**Fl.(3)W.** period 10s			White fiberglass tower.	
14602.5 *F 2503.2*	Bagasiong Point.	12° 50.6′ N 123° 12.1′ E	**Fl.(3)W.** period 10s			Fiberglass structure.	
14603 *F 2503.5*	San Pascual.	13° 08.7′ N 122° 59.2′ E	**Fl.W.** period 10s			Fiberglass structure.	
14604 *F 2508*	**Colorada Point.**	12° 32.5′ N 123° 22.7′ E	**Fl.(2)R.** period 5s	109 **33**	**16**	White concrete tower, dwelling; 16.	Visible 130°-085°.
14607 *F 2506*	Masbate Harbor, NW. Point.	12° 22.7′ N 123° 36.6′ E	**Fl.R.** period 5s	52 **16**	7	White fiberglass tower; 33.	
14612 *F 2502*	San Miguel Island.	12° 43.0′ N 123° 35.4′ E	**Fl.(3)W.** period 5s	222 **68**	12	Concrete tower; 36.	Visible 006°-288°.
14616 *F 2498*	Matabao Island.	12° 18.6′ N 123° 48.6′ E	**Fl.W.** period 5s	106 **32**	10	White metal round tower; 33.	
14620 *F 2500*	**Port San Jacinto.**	12° 34.2′ N 123° 44.1′ E	**Fl.R.** period 5s	55 **17**	**15**	White concrete tower; 26.	Visible 177°-334°.
14622 *F 2293*	Pulanduta Pt.	11° 54.3′ N 123° 09.9′ E	**Fl.(2)W.** period 4s			Fiberglass structure.	
14623 *F 2293.5*	Milagros.	12° 13.0′ N 123° 31.9′ E	**Fl.(2)R.** period 4s			Fiberglass structure.	
14623.5 *F 2293.8*	Cawayan.	11° 55.2′ N 123° 45.1′ E	**Fl.G.** period 5s				
14623.55 *F 2293.85*	Guinauayan Island.	11° 48.7′ N 123° 54.5′ E	**Fl.(2)W.** period 10s				
14624 *F 2292*	**Jintotolo Island.**	11° 50.4′ N 123° 07.3′ E	**Fl.(3)W.** period 10s	187 **57**	**20**	Gray square stone tower, dwelling, base; 51.	
14626 *F 2301*	-Apga Point.	11° 47.7′ N 122° 15.4′ E	**Fl.(2)W.** period 5s			Fiberglass structure.	
14628 *F 2302*	Batan Point.	11° 35.6′ N 122° 30.2′ E	**Fl.(3)W.** period 10s	39 **12**	12	Round metal tower; 36.	
14629 *F 2303*	**Sonculan.**	11° 33.3′ N 122° 33.5′ E	**Fl.W.** period 5s	33 **10**	**15**	White metal and fiberglass tower.	
14632 *F 2304*	**Culasi Point.**	11° 36.5′ N 122° 42.3′ E	**Fl.W.** period 7s	157 **48**	**18**	Concrete structure; 16.	Visible 345°-254°.
14636 *F 2305*	Capiz Bay, Libas Cove, S. breakwater, W. head.	11° 36.1′ N 122° 42.4′ E	**Fl.R.** period 5s	13 **4**	11	Concrete tower.	
14640 *F 2306*	--N. breakwater, S. head.	11° 36.2′ N 122° 42.4′ E	**Fl.G.** period 3s	20 **6**	7	White concrete tower; 16.	

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			PHILIPPINES				
14641 *F 2306.5*	-Olutaya Island.	11° 38.6′ N 122° 50.5′ E	**Fl.W.** period 5s				
14642 *F 2307*	Zapato Menor Island.	11° 42.7′ N 122° 59.1′ E	**Fl.(2)W.** period 10s			Fiberglass structure.	
14644 *F 2308*	**Manigonigo Island.**	11° 36.2′ N 123° 10.7′ E	**Fl.W.** period 7s	68 **21**	**16**	White round tower, dwelling; 29.	
14648 *F 2294*	**North Gigante Island.**	11° 38.2′ N 123° 21.5′ E	**Fl.W.** period 10s	77 **23**	**17**	White metal round tower, dwelling; 39.	Visible 076°-343°, obscured by Uaidajun Island 267°-275°.
14652 *F 2296*	**Tanguingui Island.**	11° 29.2′ N 123° 43.5′ E	**Fl.W.** period 5s	128 **39**	**17**	Black metal tower, dwelling, white lantern; 112.	
14656 *F 2310*	Estancia.	11° 27.0′ N 123° 09.1′ E	**Fl.R.** period 7s fl. 0.7s, ec. 6.3s	49 **15**	9	White fiberglass tower; 32.	Partly obscured by islands.
	BANTAYAN ISLAND:						
14660 *F 2298*	-Bantayan, on beach off the town.	11° 11.0′ N 123° 42.7′ E	**Fl.(2)W.** period 5s	39 **12**	10	White metal tower; 33.	Visible 355°-150°.
14664 *F 2300*	-Buntay Point.	11° 18.0′ N 123° 43.8′ E	**Fl.W.** period 5s	33 **10**	10	White concrete tower.	
14665 *F 2297*	**Guintacan Island.**	11° 17.9′ N 123° 53.5′ E	**Fl.W.** period 10s fl. 0.3s, ec. 9.7s	213 **65**	**17**	White metal octagonal tower; 66.	Visible 225°-135°.
14668 *F 2314*	Baliguian Island.	11° 12.2′ N 123° 20.3′ E	**Fl.W.** period 7s fl. 0.2s, ec. 6.8s	75 **23**	14	White metal octagonal tower; 66.	
14672	*Carmen Shoals Buoy,* S. side of shoal.	11° 02.0′ N 123° 20.0′ E	**Fl.W.** period 5s			Red buoy.	
14676 *F 2357.4*	**Cadiz.**	10° 57.5′ N 123° 19.2′ E	**Fl.W.** period 5s		**18**	Wooden post.	
14680 *F 2357.6*	Victorias.	10° 54.8′ N 123° 04.4′ E	**F.G.**				
14681 *F 2357.7*	Tomonton Point.	10° 53.7′ N 122° 56.9′ E	**Fl.(2)W.** period 6s	39 **12**	7		
14684 *F 2357*	Himugann River Entrance.	10° 57.5′ N 123° 24.6′ E	**Fl.W.** period 5s				In range with Sagay Water Tower 170°. Private light.
14686 *F 2358.2*	Bacolod City.	10° 42.2′ N 122° 57.0′ E	**Fl.R.** period 5s				
14686.2 *F 2358.5*	Bredco.	10° 41.1′ N 122° 56.3′ E	**Fl.W.** period 5s		7	Tower.	
14686.7 *F 2359*	Pulupandan.	10° 31.4′ N 122° 47.7′ E	**Fl.(2)W.** period 5s			Fiberglass structure.	
14687 *F 2318*	San Juan Point.	10° 59.9′ N 122° 50.0′ E	**F.W.**				
14688 *F 2316*	**Calabazas Island.**	11° 04.5′ N 123° 01.4′ E	**Fl.W.** period 5s	131 **40**	**17**	White metal octagonal tower; 66.	
	ILOILO:						
14692 *F 2320*	-Siete Pecados.	10° 46.0′ N 122° 40.7′ E	**Fl.W.** period 5s fl. 0.7s, ec. 4.3s	89 **27**	9	White tower; 32.	

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			PHILIPPINES				
14694 *F 2319*	-Navalas Point.	10° 43.0′ N 122° 42.8′ E	**Fl.(3)W.** period 6.5s			Fiberglass structure.	
14695 *F 2319.5*	**-San Enrique.**	10° 36.9′ N 122° 43.5′ E	**Fl.W.** period 5s	33 **10**	**15**	White metal and fiberglass tower.	
14696 *F 2326.2*	-River entrance, N. side.	10° 41.6′ N 122° 35.1′ E	**Fl.R.** period 4s fl. 0.7s, ec. 3.3s	30 **9**	6	White fiberglass tower; 20.	
14700 *F 2326*	--S. side.	10° 41.5′ N 122° 35.0′ E	**Fl.G.** period 5s fl. 0.7s, ec. 4.3s	26 **8**	7	White fiberglass tower; 20.	Visible 047°-038°.
14702 *F 2327*	Bundolan Point.	10° 39.9′ N 122° 34.1′ E	**Fl.W.** period 5s			White metal and fiberglass tower; 33.	
14704	*-Morubuan Point Buoy 4.*	10° 39.0′ N 122° 32.0′ E	**Fl.W.** period 4s			Red buoy.	
14706 *F 2329*	Sinapsapan Point.	10° 35.3′ N 122° 30.8′ E	**Fl.W.** period 5s	33 **10**		White metal and fiberglass tower.	
14708 *F 2328*	**Lusaran Point.**	10° 28.8′ N 122° 28.5′ E	**Fl.(2)W.** period 10s	111 **34**	**20**	White round metal tower, white dwelling; 39.	Visible 339°-184°.
14716 *F 2359.5*	S. side of Himamaylan River.	10° 05.6′ N 122° 51.1′ E	**Fl.R.** period 5s	23 **7**	7	Concrete tower; 23.	Visible 070°-175°.
14717 *F 2359.7*	Sojoton Point.	9° 58.5′ N 122° 27.1′ E	**Fl.(2)W.** period 10s			Fiberglass structure.	
14718 *F 2359.82*	-Cansilan Point.	9° 23.0′ N 122° 40.5′ E	**Fl.W.** period 5s				
14720 *F 2332*	**Nogas Island.**	10° 25.1′ N 121° 55.2′ E	**Fl.G.** period 10s fl. 0.3s, ec. 9.7s	115 **35**	**17**	Masonry tower; 98.	Visible 271°-170°, except where obscured by Jurao Jurao Island 278°-285°.
14724 *F 2334*	Tubigan Point, San Jose de Buenavista.	10° 44.3′ N 121° 56.2′ E	**Fl.W.** period 5s	49 **15**	7	White fiberglass tower, old fort; 39.	
14724.3 *F 2335*	**Amparo.**	10° 55.5′ N 121° 58.9′ E	**Fl.W.** period 5s		**15**	White metal and fiberglass tower; 33.	
14725 *F 2336*	Tibiao Point.	11° 17.7′ N 122° 01.7′ E	**Fl.W.** period 10s			Metal tower.	
14727 *F 2336.5*	Libertad.	11° 46.1′ N 121° 55.0′ E	**Fl.W.** period 5s	49 **15**	7	Tower.	
14727.5 *F 2336.8*	Nasag Point.	11° 54.0′ N 121° 53.1′ E	**Fl.W.** period 5s				
14728 *F 2337*	Pucio Point.	11° 45.7′ N 121° 50.7′ E	**Fl.W.** period 7s			Metal tower.	
14729	Cansilan.	9° 23.0′ N 122° 40.5′ E	**Fl.W.** period 5s				
14730 *F 2345*	Antulang.	9° 02.5′ N 123° 01.0′ E	**Fl.(3)W.** period 15s	85 **26**	7	Fiberglass tower; 36.	
14732 *F 2346*	Dumaguete, middle corner of wharf.	9° 18.8′ N 123° 18.7′ E	**Fl.G.** period 5s	38 **12**	8	White concrete tower; 34.	Visible 198°-359°.
14736 *F 2347*	-Center of town.	9° 18.7′ N 123° 18.5′ E	**Oc.W.** period 5s lt. 3s, ec. 2s	97 **30**	10	Metal tower; 30.	
14740 *F 2356*	San Carlos.	10° 28.8′ N 123° 25.3′ E	**Fl.R.** period 5s	41 **12**	10	White round tower; 30.	Visible 008°-035° and 228°-268. F.W. shown from stack of San Carlos Milling Co.

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			PHILIPPINES				
14744 *F 2354*	**Refugio Island.**	10° 28.1′ N 123° 26.9′ E	**Fl.W.** period 7s	122 **37**	**15**	White metal tower; 66.	
14748 *F 2356.4*	Escalante, on ruins of wharf in Danao River.	10° 49.0′ N 123° 33.0′ E	**F.R.**	37 **11**	7	White concrete tower; 33.	Visible 250°-288°.
14750 *F 2356.6*	Matabas Island, Molocaboc.	10° 58.6′ N 123° 32.6′ E	**Fl.W.** period 5s	33 **10**	10	White metal and fiberglass tower; 33.	
14752 *F 2362*	Balamban.	10° 30.3′ N 123° 42.9′ E	**Fl.W.** period 5s	43 **13**	10	White metal tower; 28.	
14760 *F 2363*	Toledo.	10° 22.7′ N 123° 38.3′ E	**F.R.**		6	White concrete tower; 20.	
14764 *F 2352*	Guihulngan.	10° 07.2′ N 123° 16.2′ E	**Fl.(3)W.** period 10s	36 **11**	7	Fiberglass tower.	
14768 *F 2364*	Dumanjug, on beach at Tangil.	10° 04.2′ N 123° 26.8′ E	**Fl.R.** period 5s	33 **10**	12	White metal and fiberglass tower; 31.	
14772 *F 2366*	Pescador Island.	9° 55.4′ N 123° 20.5′ E	**Fl.W.** period 5s fl. 0.7s, ec. 4.3s	82 **25**	9	White concrete tower; 32.	
14774 *F 2359.85*	Looc Point.	9° 37.3′ N 123° 19.2′ E	**Fl.W.** period 7s	33 **10**		White metal and fiberglass tower; 33.	
14775 *F 2350.5*	Dacu.	9° 35.5′ N 123° 08.9′ E	**Fl.W.** period 5s				
14776 *F 2350*	South Bais Bay, jetty, E. head.	9° 33.3′ N 123° 08.8′ E	**F.R.**				
14780 *F 2348*	Amblan Point, SE. part Negros Island.	9° 27.9′ N 123° 13.6′ E	**Fl.W.** period 5s	36 **11**	10	White metal tower; 29.	Visible 140°-327°.
14781 *F 2344.5*	Sumilon.	9° 25.8′ N 123° 23.4′ E	**Fl.W.** period 5s	105 **32**		Concrete tower; 49.	
14783 *F 2367*	**Minarcahan Point.**	9° 18.0′ N 123° 37.3′ E	**Fl.(3)W.** period 10s	26 **8**	**15**	Fiberglass structure; 16.	
14784 *F 2368*	Port Canoan, Siquijor Island, front, near bridge, harbor, head.	9° 15.1′ N 123° 35.7′ E	**F.R.**		7	White triangular daymark point up, black stripe.	
14788 *F 2368.1*	-Rear, 777 meters 115° from front.	9° 14.9′ N 123° 36.1′ E	**F.R.**		7	White triangular daymark point down, black stripe.	
14791 *F 2371*	**Cambalaguio.**	9° 09.2′ N 123° 30.8′ E	**Fl.(3)W.** period 10s	89 **27**	**15**	Fiberglass tower; 15.	
14792 *F 2370*	Lazi, Siguijor Island.	9° 07.4′ N 123° 38.2′ E	**F.R.**		4	Concrete tower; 33.	
14793 *F 2369*	**Minalulan Point.**	9° 07.3′ N 123° 40.9′ E	**Fl.(2)W.** period 10s	184 **56**	**17**	White metal tower; 66.	
14796 *F 2344*	**Apo Island.**	9° 05.0′ N 123° 16.2′ E	**Fl.W.** period 5s	428 **130**	**21**	Round concrete tower; 36.	
14800 *F 2406*	**Capitancillo Island.**	10° 59.4′ N 124° 06.2′ E	**Fl.W.** period 10s	98 **30**	**15**	Black metal tower, stone dwelling, red roof, white lantern; 85.	
14804 *F 2408*	Bogo Harbor, on reef at N. side of entrance.	11° 05.1′ N 124° 01.7′ E	**Fl.R.** period 5s	13 **4**	9	White square concrete tower, red diamond daymarks; 23.	
14808 *F 2410*	**Chocolate Island,** center.	11° 18.3′ N 124° 03.8′ E	**Fl.R.** period 3s	170 **52**	**18**	White concrete tower; 32.	Visible 250°-288°.
14810 *F 2412.5*	Carnasa Island.	11° 30.9′ N 124° 06.0′ E	**Fl.(2)W.** period 5s			Fiberglass structure.	

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14812 *F 2412*	**Malapascua Island.**	11° 20.6′ N 124° 06.6′ E	**Fl.W.** period 5s	112 **34**	**18**	White metal framework tower; 36.	
	RACON		**N(– •)**				
14816 *F 2360*	N. side, entrance to Hagnaya Bay.	11° 07.1′ N 123° 56.4′ E	**Fl.R.** period 5s	46 **14**	7	Beacon.	Visible 036°-160° and 170°-181°.
14819 *F 2405*	Tabuelan.	10° 49.9′ N 123° 52.1′ E	**Fl.W.** period 5s	20 **6**	10	Metal tower; 20.	
14820 *F 2404*	Sogod Bay.	10° 45.0′ N 124° 00.3′ E	**F.G.**				Private light.
14824 *F 2402*	**Bagacay Point.**	10° 23.0′ N 124° 01.1′ E	**Fl.(3)W.** period 15s	144 **44**	**20**	White masonry tower; 72.	Visible 179°-043°. Reported obscured approaching from NE.
14826 *F 2401*	Tilhaon.	10° 21.3′ N 124° 00.1′ E	**F.W.**	66 **20**	7	Red, blue and white metal framework tower.	
	CEBU HARBOR:						
14828 *F 2400*	-Bantolinao Point, reef, edge.	10° 20.1′ N 123° 59.2′ E	**Fl.G.** period 5s	30 **9**	11	White concrete tower; 30.	Visible 060°-294°.
14832 *F 2399*	-AVIATION LIGHT.	10° 18.9′ N 123° 58.7′ E	**Al.Fl.W.G.** period 6s	194 **59**	**15**	Concrete tower.	
14845 *F 2393*	-Shell Island.	10° 17.1′ N 123° 54.1′ E	**Fl.(2)W.** period 4s	39 **12**	10	Fiberglass structure; 36.	
14845.4 *F 2398*	-Lapu Lapu City.	10° 18.8′ N 123° 56.9′ E	**Fl.R.** period 5s	33 **10**	6	White concrete tower.	
14846 *F 2390*	-Cauit Island.	10° 16.3′ N 123° 52.9′ E	**Fl.W.** period 5s		10	Fiberglass structure.	
14848 *F 2388*	-Lauis Ledge.	10° 14.1′ N 123° 53.5′ E	**Fl.W.** period 10s	53 **16**	13	White metal mast, concrete structure; 26.	Visible 304°-184°.
	BOHOL ISLAND:						
14852 *F 2376*	-Maribojoc.	9° 44.2′ N 123° 50.5′ E	**Fl.W.** period 5s fl. 0.2s, ec. 4.8s	43 **13**	9	White fiberglass tower; 32.	
14856 *F 2386*	-Jetafe, on wharf.	10° 09.3′ N 124° 09.5′ E	**Fl.R.** period 5s	35 **11**	3	Fiberglass mast.	Visible 081°-166°06′.
14860 *F 2387*	-Tubigon, pier, head.	9° 57.4′ N 123° 57.5′ E	**Fl.R.** period 5s		10	Concrete structure.	
14861 *F 2387.7*	-Inabanga.	10° 01.9′ N 124° 03.5′ E	**Fl.(2)R.** period 3s			Fiberglass tower.	
14862 *F 2387.5*	-Catagbacan.	9° 51.6′ N 123° 49.1′ E	**Fl.G.** period 5s		12	Concrete structure.	
14863 *F 2378*	-Tagbilaran, No 1.	9° 39.5′ N 123° 49.7′ E	**Fl.G.** period 7s	33 **10**	6	Green hexagonal metal tower; 16.	
14864.3 *F 2378.4*	--No 5.	9° 39.4′ N 123° 49.9′ E	**Fl.G.** period 5s	7 **2**	3	Metal beacon, green square daymark.	
14864.4 *F 2378.6*	--No 7.	9° 39.1′ N 123° 50.4′ E	**Fl.G.** period 5s	30 **9**	3		
14864.8 *F 2378.7*	--No 8.	9° 39.0′ N 123° 50.4′ E	**Fl.R.** period 5s	7 **2**	3	Metal beacon, red triangular daymark point up; 7.	

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			PHILIPPINES				
14864.9 *F 2378.8*	--Pier.	9° 39.0′ N 123° 50.7′ E	**Fl.R.** period 5s	49 **15**	10		
14866 *F 2374.5*	-Argao.	9° 52.5′ N 123° 36.4′ E	**Fl.(2)W.** period 5s			Fiberglass structure.	
14868 *F 2380*	-Baclayon.	9° 37.2′ N 123° 54.8′ E	**Fl.R.** period 5s	40 **12**	3	White concrete tower; 33.	Visible 288°-098°.
14872 *F 2382*	-Loay, river entrance, E. side.	9° 36.0′ N 124° 00.6′ E	**Fl.R.** period 5s	32 **10**	7	White concrete tower; 31.	Visible 322°42′-064°42′, 069°12′-070°48′.
14875 *F 2383.5*	-Gorda Point.	9° 36.0′ N 124° 15.6′ E	**Fl.(2)W.** period 4s			Fiberglass tower.	
14876 *F 2384*	-Jagna, inner end of wharf, S. coast of island.	9° 39.0′ N 124° 21.9′ E	**Fl.R.** period 5s	35 **11**	7	White concrete tower; 30.	Visible 268°54′-352°30′.
14876.5 *F 2384.3*	-Talisay.	9° 45.9′ N 124° 35.6′ E	**Fl.(3)W.** period 8s			Fiberglass tower.	
14877 *F 2384.6*	-Tugas Point.	10° 08.9′ N 124° 37.1′ E	**Fl.W.** period 5s			Fiberglass tower.	
14877.3 *F 2384.4*	-Ubay.	10° 02.9′ N 124° 28.0′ E	**Fl.G.** period 3s		10	Concrete structure.	
14877.6 *F 2385.7*	-Talbon Bohol.	10° 16.3′ N 124° 21.9′ E	**Fl.W.** period 3s			Concrete structure.	
14877.7 *F 2330*	Taklong Island.	10° 24.2′ N 122° 30.3′ E	**Fl.W.** period 5s	33 **10**	10	White metal and fiberglass tower.	
14877.8 *F 2385*	-Talibon.	10° 09.0′ N 124° 19.6′ E	**Fl.R.** period 5s		10	Concrete.	
14878 *F 2385.3*	-Tambo Island.	10° 11.5′ N 124° 17.2′ E	**Fl.(2)R.** period 5s			Fiberglass structure.	
14878.6 *F 2387.57*	-NW. Bank, No 1.	10° 03.5′ N 123° 59.1′ E	**Fl.G.** period 3s	7 **2**	3	Metal structure; 7.	
14878.8 *F 2387.58*	--No 2.	10° 00.5′ N 123° 56.9′ E	**Fl.R.** period 3s	7 **2**	3	Metal structure; 7.	
14879 *F 2387.6*	-Bagambanua.	10° 03.4′ N 123° 54.0′ E	**Fl.(3)W.** period 15s	7 **2**	3	Fiberglass structure.	
14879.6	-Pangangan Island.	9° 54.6′ N 123° 48.8′ E	**Fl.R.** period 5s				
14880 *F 2375*	-Cabilao Island.	9° 53.4′ N 123° 45.5′ E	**Fl.W.** period 5s	33 **10**	8	Concrete tower; 30.	
14884 *F 2374*	**Balicasag Island.**	9° 31.0′ N 123° 41.0′ E	**Fl.W.** period 7s fl. 0.2s, ec. 6.8s	121 **37**	**17**	White metal octagonal tower; 98.	
14885 *F 2383*	Pamilican Island.	9° 29.4′ N 123° 55.3′ E	**Fl.W.** period 5s			Fiberglass structure.	
14888 *F 2416*	Biliran Strait.	11° 27.3′ N 124° 28.7′ E	**Fl.W.** period 4s	35 **11**	8	White concrete tower; 30.	Visible 270°-294° and 078°-126°.
14892 *F 2418*	Carigara.	11° 18.2′ N 124° 41.2′ E	**Fl.G.** period 5s	29 **9**	2	White concrete tower; 25.	Visible 075°-225°.
14896 *F 2423.1*	San Juanico Bridge, N. head.	11° 18.0′ N 124° 58.3′ E	**Fl.G.** period 2.5s		10		Navigable span marked by lights.
14907 *F 2421*	-Ivantacut.	11° 26.9′ N 124° 52.6′ E	**Fl.R.** period 5s		3	Concrete structure.	

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14908 *F 2420*	Canauay Islet.	11° 26.4′ N 124° 51.2′ E	**Fl.(3)W.** period 15s	105 **32**	9	White octagonal metal tower; 66.	Visible 080°-265°. Channel is marked by lights and light buoys.
14912 *F 2423.5*	**-Santa Rita.**	11° 25.7′ N 124° 57.7′ E	**Fl.W.** period 5s		**15**		
14916 *F 2457*	**Tacloban.**	11° 15.1′ N 125° 00.3′ E	**Fl.R.** period 5s	52 **16**	**15**	White framework tower, concrete building.	Visible 031°-322°, obscured by Dio Island 309°-311°.
14920 *F 2458*	Jinamoc Island, W. side.	11° 15.5′ N 125° 04.6′ E	**Fl.W.** period 5s	78 **24**	12	White concrete tower; 30.	Partially obscured by land.
14924 *F 2456*	Mariquitdaquit Island.	11° 04.4′ N 125° 09.3′ E	**Fl.W.** period 4s	60 **18**	11	Black concrete tower; 32.	
14928 *F 2455*	Tolosa.	11° 04.1′ N 125° 02.3′ E	**Fl.R.** period 5s	416 **127**	12	Concrete tower.	
14932 *F 2454.7*	**Abuyog.**	10° 44.7′ N 125° 00.8′ E	**Fl.W.** period 5s fl. 0.7s, ec. 4.3s	77 **23**	**24**	White metal tower; 66.	
14932.5 *F 2425*	San Pedro.	10° 28.4′ N 125° 13.7′ E	**Fl.W.** period 5s	200 **61**	10	Fiberglass structure, white metal structure; 33.	
14933 *F 2252.7*	Kanhandon.	10° 27.6′ N 125° 27.9′ E	**Fl.W.** period 10s	46 **14**	10	White metal and fiberglass tower; 33.	
14935 *F 2253*	Capintac, on Dingat Island.	10° 26.5′ N 125° 36.8′ E	**Fl.(4)W.** period 12s				
14935.5 *F 2253.5*	-Loreto, Looc Bay.	10° 21.6′ N 125° 34.8′ E	**Fl.R.** period 5s				
14935.7 *F 2252.5*	Kahinaan Island.	10° 10.3′ N 125° 27.7′ E	**Fl.W.** period 7s	33 **10**	10	White metal and fiberglass structure.	
14936 *F 2426*	Liloan Harbor, on extreme N. point of Panaon Island.	10° 09.6′ N 125° 07.1′ E	**Fl.R.** period 5s	32 **10**	7	Concrete column; 30.	Visible 030°-340°.
14936.5 *F 2426.2*	Ilijan Island.	10° 04.0′ N 125° 08.5′ E	**Fl.W.** period 5s	118 **36**	10	White metal and fiberglass post; 33.	
14937 *F 2426.1*	Caligangan.	10° 07.5′ N 125° 12.8′ E	**Fl.W.** period 5s	692 **211**	10	White metal and fiberglass post; 33.	
14938 *F 2427*	Anahawan.	10° 15.4′ N 125° 15.0′ E	**Fl.W.** period 5s			Fiberglass structure.	
14938.5 *F 2427.2*	San Jose.	10° 15.9′ N 125° 10.6′ E	**Fl.R.** period 5s			Fiberglass structure.	
14938.6 *F 2426.6*	St. Bernard.	10° 16.7′ N 125° 08.3′ E	**Fl.W.** period 5s		7	Concrete structure.	
14939 *F 2427.5*	Sogod.	10° 22.9′ N 124° 58.7′ E	**Fl.W.** period 5s			Fiberglass structure.	
14940 *F 2428*	Malitbog, Sogod Bay, near root of wharf.	10° 09.5′ N 125° 00.1′ E	**Fl.R.** period 3s	35 **11**	7	White metal and fiberglass tower; 33.	
14944 *F 2429*	Limasawa Island, N. head.	9° 57.8′ N 125° 03.8′ E	**Fl.W.** period 8s	128 **39**	5	Fiberglass tower.	
14948 *F 2430*	Maasin, boat landing.	10° 08.0′ N 124° 50.4′ E	**Fl.R.** period 5s	35 **11**	10	White concrete tower; 30.	Visible 279°-061°.
14952 *F 2434*	Canigao Island.	10° 14.9′ N 124° 45.0′ E	**Fl.W.** period 5s fl. 0.7s, ec. 4.3s	78 **24**	10	White metal octagonal tower; 67.	
14953 *F 2435*	**Adam Reef.**	10° 14.6′ N 124° 42.2′ E	**Fl.W.** period 5s	36 **11**	**17**	White hexagonal tower; 16.	

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14954 *F 2435.5*	Tood Islets.	10° 15.6′ N 124° 39.3′ E	**Fl.(3)W.** period 15s	16 **5**	10	Metal structure.	
14956 *F 2436*	Hindang, fort, NW. corner.	10° 26.1′ N 124° 43.7′ E	**Fl.G.** period 5s	37 **11**	10	White metal and fiberglass tower; 33.	
14958 *F 2436.5*	Tulang.	10° 36.0′ N 124° 18.9′ E	**Fl.(3)W.** period 15s			Fiberglass structure.	
14958.2 *F 2436.7*	Pacijan.	10° 36.3′ N 124° 16.5′ E	**Fl.(2)W.** period 10s				
14960 *F 2438*	Baybay.	10° 40.5′ N 124° 47.9′ E	**Fl.W.** period 5s fl. 0.7s, ec. 4.3s	43 **13**	9	White fiberglass tower; 32.	Visible over an arc of 109°.
14964 *F 2437*	Poro Island.	10° 38.1′ N 124° 28.4′ E	**F.R.**	159 **48**	4	Concrete tower; 33.	Visible 265°-066°.
14968 *F 2442*	Ormoc.	11° 00.3′ N 124° 36.5′ E	**Fl.W.** period 5s fl. 0.7s, ec. 4.3s	43 **13**	9	White fiberglass tower; 30.	
14969 *F 2436.8*	Poro Island.	10° 37.7′ N 124° 24.5′ E	**Fl.W.** period 5s			White metal and fiberglass tower; 31.	
14970 *F 2442.5*	Calunangan.	10° 52.4′ N 124° 30.1′ E	**Fl.(2)W.** period 10s			Fiberglass structure.	
14971 *F 2442.2*	Pilar.	10° 48.2′ N 124° 34.1′ E	**Fl.(2)W.** period 10s			White metal and fiberglass tower; 33.	
14972 *F 2443*	Sacay Point.	10° 54.9′ N 124° 24.9′ E	**Fl.R.** period 5s		10	Metal and fiberglass tower.	Visible 008°-054°.
14976 *F 2440*	Albuera.	10° 54.9′ N 124° 41.7′ E	**Fl.W.** period 5s	39 **12**	10	Metal structure.	
14980 *F 2444*	Palompon, 229 meters N. of wharf.	11° 03.1′ N 124° 23.0′ E	**Fl.R.** period 5s	35 **11**	11	White concrete tower; 30.	Private light.
14984 *F 2484*	Catarman, on beach, N. coast of Samar.	12° 31.0′ N 124° 39.3′ E	**F.R.**	35 **11**	5	White concrete tower; 33.	Partially obscured by Hirapsan Island.
14988 *F 2474*	Allen, N. of entrance to Sabag River.	12° 30.1′ N 124° 16.9′ E	**Fl.W.** period 5s fl. 0.7s, ec. 4.3s	41 **12**	9	White fiberglass tower; 32.	Visible 043°-150°.
14992 *F 2482*	San Jose, Carangian.	12° 31.9′ N 124° 29.2′ E	**Fl.W.** period 5s	43 **13**	9	White fiberglass tower; 33.	
14996 *F 2446*	-Laoang Bay, Ipil Point.	12° 35.4′ N 125° 00.0′ E	**Fl.W.** period 5s				
14997 *F 2447*	-Port Laoang.	12° 34.2′ N 125° 00.3′ E	**Fl.R.** period 5s		6		
15000 *F 2480*	-Tinau.	12° 36.6′ N 124° 26.5′ E	**Fl.R.** period 5s	32 **10**	7	Concrete mast; 30.	
15004 *F 2448*	**Batag Island.**	12° 39.5′ N 125° 03.6′ E	**Fl.(3)W.** period 10s	313 **95**	**20**	White round concrete tower, dwelling, red and white lantern; 102.	
15005 *F 2448.5*	Sila Point.	12° 24.3′ N 125° 20.1′ E	**Fl.W.** period 10s			Fiberglass structure.	
15005.5 *F 2448.3*	Hiunatungan Island.	12° 17.4′ N 125° 24.0′ E	**Fl.R.** period 5s			Fiberglass structure.	
15006 *F 2449*	Linao Island.	12° 00.9′ N 125° 33.1′ E	**Fl.W.** period 5s		10		
15008 *F 2452*	Borongan.	11° 36.8′ N 125° 26.3′ E	**Fl.W.** period 5s	36 **11**	10	White metal tower; 23.	Partially obscured by Andis and Divinubo Islands.

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15012 *F 2450*	Divinubo Island, highest point.	11° 35.8′ N 125° 30.2′ E	**Fl.W.** period 10s	136 **41**	11	White framework tower, house; 46.	Visible 172°-335°.
15014 *F 2452.5*	Tugnung Point.	11° 20.9′ N 125° 37.9′ E	**Fl.W.** period 5s			Fiberglass structure.	
15016 *F 2453*	Guiuan, on church.	11° 01.9′ N 125° 43.4′ E	**Fl.W.** period 5s		7	Spire.	
15017 *F 2245.5*	Punta Alegria, on Siargao Island.	10° 03.7′ N 126° 04.0′ E	**Fl.(2)W.** period 10s				
15020 *F 2454*	**Suluan Island.**	10° 45.3′ N 125° 57.9′ E	**Fl.(3)W.** period 15s	452 **138**	**28**	Metal tower; 52.	Visible 162°-142°.
15022 *F 2465*	Daram, on Danaodanauan Island.	11° 44.1′ N 124° 42.8′ E	**Fl.W.** period 5s			Fiberglass structure.	
15024 *F 2462*	Uacuac Island, N. point, at entrance to Calbiga River.	11° 39.9′ N 124° 58.3′ E	**Fl.W.** period 5s	37 **11**	10	Concrete tower; 32.	Visible 009°-197°.
15028 *F 2464*	Catbalogan.	11° 46.7′ N 124° 52.8′ E	**Fl.R.** period 5s	100 **30**	10	White concrete tower; 24.	Visible 347°-104°, obscured by Darajuay and Cagdullon Islands.
15032 *F 2470*	Gandara River, entrance, S. side.	11° 58.8′ N 124° 41.5′ E	**Fl.W.** period 5s	33 **10**	12	White metal and fiberglass tower; 30.	Visible 103°-162°.
15034 *F 2468*	Santo Nino.	11° 53.4′ N 124° 27.9′ E	**Fl.W.** period 5s			Fiberglass structure.	
15036 *F 2466*	Cabilison Island.	11° 53.3′ N 124° 16.7′ E	**Fl.R.** period 5s	231 **70**		White hexagonal metal tower; 33.	Partially obscured by Alamargo, Maripipi and Tagapula Islands.
15037 *F 2473*	Malaga.	12° 14.1′ N 124° 22.5′ E	**Fl.W.** period 5s			White metal and fiberglass tower; 33.	
15039 *F 2415*	Kawayan, N. coast of Biliran Island.	11° 40.9′ N 124° 21.3′ E	**Fl.W.** period 5s			Fiberglass structure.	
15040 *F 2413*	**Mabini Light.**	11° 34.2′ N 124° 15.6′ E	**Fl.W.** period 5s		**18**	Metal structure.	
15044 *F 2472*	Calbayog, W. end of town at mouth of river.	12° 04.0′ N 124° 35.5′ E	**Fl.R.** period 5s	33 **10**	7	White concrete tower; 33.	Visible 296°-073°.
15048 *F 2284*	Pulauan.	8° 38.2′ N 123° 22.9′ E	**Fl.(2)W.** period 5s	146 **44**	4	Concrete tower; 32.	Visible 126°-311°.
15050 *F 2281.6*	Pinahon Island.	8° 39.4′ N 123° 30.6′ E	**Fl.(2)W.** period 10s				
15051 *F 2281.3*	Baliangao Point.	8° 39.9′ N 123° 37.3′ E	**Fl.W.** period 5s			White metal and fiberglass tower; 33.	
15051.8 *F 2281.8*	Silino Island.	8° 51.3′ N 123° 25.1′ E	**Fl.W.** period 5s				
15052 *F 2282*	**Tagolo Point.**	8° 43.6′ N 123° 22.8′ E	**Fl.W.** period 10s	109 **33**	**15**	White concrete house; 26.	Visible 002°-265°.
15056 *F 2281*	Plaridel.	8° 36.7′ N 123° 43.6′ E	**Fl.R.** period 5s	20 **6**	7		
15060 *F 2280.4*	Inamucan Bay, W. side on edge of reef.	8° 36.6′ N 123° 43.7′ E	**F.R.**				Private light.
15064 *F 2280*	**Polo Point.**	8° 35.9′ N 123° 45.4′ E	**Fl.W.** period 3s	60 **18**	**20**	White metal tower; 53.	Visible 121°-327°.
15066 *F 2278*	Oroquieta City.	8° 29.7′ N 123° 47.8′ E	**Fl.W.** period 4s				

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15068 *F 2276*	**Tabu Point.**	8° 19.5′ N 123° 51.8′ E	**Fl.W.** period 5s	32 **10**	**15**	White concrete tower; 30.	Visible 156°-357°.
15069 *F 2275.5*	Sinacaban.	8° 18.0′ N 123° 51.9′ E	**Fl.W.** period 5s				
15070 *F 2275*	Panguil Bay.	8° 02.6′ N 123° 47.3′ E	**Fl.G.** period 5s		7	White metal and fiberglass tower; 33.	
15080 *F 2274*	Ozamiz, Misamis Point.	8° 08.4′ N 123° 50.8′ E	**Fl.R.** period 10s	55 **17**	9	Concrete tower, fort; 30.	
15081 *F 2269*	Labuay.	8° 09.7′ N 123° 57.0′ E	**Fl.W.** period 5s				
15082 *F 2270*	Kolambugan Range, front.	8° 06.8′ N 123° 53.2′ E	**F.R.**	65 **20**	7		
15084 *F 2270.1*	-Rear, about 180 meters 193° from front.	8° 06.7′ N 123° 53.2′ E	**F.R.**	75 **23**	7	Beacon, triangular daymark point down; 30.	
15088 *F 2268*	Iligan, bank of river, at root of dock.	8° 13.9′ N 124° 13.9′ E	**Fl.R.** period 2s	37 **11**	7	White metal tower; 33.	
15092 *F 2266*	Macabalan Point.	8° 30.3′ N 124° 39.8′ E	**Fl.W.** period 5s	58 **18**	9	White metal and fiberglass tower; 53.	Visible 119°-300°.
15093 *F 2266.5*	Molugan Point.	8° 31.8′ N 124° 34.3′ E	**Fl.G.** period 5s	39 **12**	7	Gray tower; 36.	
15094 *F 2267*	Sulauan Point.	8° 36.8′ N 124° 28.6′ E	**Fl.W.** period 10s			White metal and fiberglass tower; 33.	
15095 *F 2267.5*	Salimbal.	8° 20.2′ N 124° 15.6′ E	**Fl.W.** period 10s				
15096	Bugo.	8° 30.3′ N 124° 45.2′ E	**F.W., F.G.**	135 **41**	W. 11	Metal water tank.	
15097 *F 2265.5*	Tagoloan.	8° 31.6′ N 124° 45.0′ E	**Fl.W.** period 4s	142 **43**	11	White beacon, control tower.	
15098 *F 2265*	Villanueva.	8° 34.6′ N 124° 45.6′ E	**F.R.**			Red and white tower.	
15098.5 *F 2264.8*	Alutaya Reef.	8° 40.3′ N 124° 41.3′ E	**Fl.R.** period 5s				
15099 *F 2264.5*	Balingasag.	8° 42.2′ N 124° 44.8′ E	**Fl.W.** period 5s			White metal and fiberglass tower; 33.	
15100 *F 2264*	Balinguan, pier, root.	9° 00.4′ N 124° 50.8′ E	**F.R.**	25 **8**		Gray tower.	Private light.
15101 *F 2264.3*	**Binuangan.**	8° 57.8′ N 124° 46.3′ E	**Fl.W.** period 5s	33 **10**	**15**	White metal and fiberglass tower.	
15104 *F 2262*	Mambajao, angle of pier, Camiguin Island.	9° 15.3′ N 124° 42.9′ E	**Fl.(2)W.** period 6s	42 **13**	7	White concrete tower; 38.	
15104.3 *F 2261.9*	Catarman.	9° 12.0′ N 124° 38.2′ E	**Fl.(3)W.** period 10s				
15105 *F 2263.5*	Farol Point.	9° 04.8′ N 124° 46.2′ E	**Fl.W.** period 5s	33 **10**		White metal and fiberglass tower; 31.	
15106 *F 2263*	-E. side of island.	9° 08.3′ N 124° 47.6′ E	**Fl.G** period 5s		7		
15108 *F 2261.4*	Gingoog Bay, on pier.	8° 50.6′ N 125° 04.2′ E	**Fl.R.** period 5s	36 **11**		Structure, red and white diamond daymark.	
15110 *F 2261.5*	-NW.	8° 51.3′ N 125° 04.0′ E	**Fl.G.** period 5s		7		

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15112 *F 2261.7*	Medina.	8° 54.5′ N 125° 01.4′ E	**Fl.G.** period 5s		7		
15116 *F 2258*	Nasipit Harbor.	8° 59.0′ N 125° 19.9′ E	**Fl.W.** period 5s	94 **29**	7	White concrete tower; 30.	
15120 *F 2256*	Agusan River, entrance.	9° 00.9′ N 125° 31.4′ E	**Fl.R.** period 5s	36 **11**	7	Concrete beacon; 36.	
15121	Magsaysay.	9° 00.7′ N 125° 10.3′ E	**Fl.(2)W.** period 10s				
15124 *F 2254*	**Cabadbaran.**	9° 07.2′ N 125° 31.4′ E	**Fl.W.** period 7s	33 **10**	**16**	White metal and fiberglass tower; 66.	
15124.5 *F 2253.9*	Diuata Point.	9° 05.5′ N 125° 12.5′ E	**Fl.W.** period 10s	66 **20**	10	White metal post, fiberglass tower; 33.	
15125 *F 2426.5*	Panaon Island, Benit Point.	9° 54.8′ N 125° 17.0′ E	**Fl.W.** period 5s			White concrete tower; 66.	
15125.5 *F 2253.8*	Punta Beach.	9° 34.0′ N 125° 25.1′ E	**Fl.W.** period 10s			White metal and fiberglass tower; 33.	
15126 *F 2252*	Sumilon Island.	9° 54.9′ N 125° 26.6′ E	**Fl.(3)W.** period 15s				
15128 *F 2250*	Surigao.	9° 47.0′ N 125° 30.1′ E	**Fl.(2)R.** period 5s	23 **7**	8	White pyramid tower, black spiral staircase.	Visible 139°-029°.
15130 *F 2247.5*	Hinatuan Island, E.	9° 46.9′ N 125° 44.3′ E	**Fl.W.** period 7s	46 **14**	10	White metal and fiberglass structure; 33.	
15131 *F 2247.6*	-North.	9° 48.6′ N 125° 43.0′ E	**Fl.W.** period 5s	36 **11**	10	White metal and fiberglass tower; 31.	
15132 *F 2248*	Rasa Island, S. end.	9° 47.5′ N 125° 35.1′ E	**Fl.(3)W.** period 10s	10 **3**	7	Square concrete tower; 10.	Visible 235°-146°.
15134 *F 2247*	-S. side.	9° 44.6′ N 126° 01.9′ E	**Fl.W.** period 5s	33 **10**	6		
15134.4 *F 2247.2*	Dapa.	9° 44.7′ N 126° 02.6′ E	**Fl.W.** period 5s	32 **10**	6	Concrete tower; 29.	
15135 *F 2246.4*	-Socorro.	9° 37.2′ N 125° 58.0′ E	**Fl.W.** period 5s				
15136 *F 2246*	Dahakit Point.	9° 33.8′ N 125° 56.0′ E	**Fl.W.** period 5s fl. 0.7s, ec. 4.3s	141 **43**	9	White fiberglass tower; 33.	
15138 *F 2245*	Auqui.	9° 23.4′ N 126° 03.0′ E	**Fl.W.** period 10s			Fiberglass structure.	
15140 *F 2244*	Cauit Point.	9° 18.4′ N 126° 12.3′ E	**Fl.(3)W.** period 8s	36 **11**	9	White concrete tower; 32.	Visible 157°-001°.
15142 *F 2243.5*	Maboa.	9° 05.2′ N 126° 11.9′ E	**Fl.(2)W.** period 15s			Fiberglass structure.	
15144 *F 2242*	**Arangasa Island.**	8° 52.7′ N 126° 20.5′ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	36 **11**	**15**	White concrete tower; 36.	Visible 176°-350°.
15145 *F 2243*	-Bitanogan Bay.	8° 53.6′ N 126° 19.6′ E	**Fl.W.** period 10s				
15146 *F 2240*	**Sanco Point.**	8° 14.8′ N 126° 27.2′ E	**Fl.W.** period 5s		**15**	Concrete structure.	
15147 *F 2239.5*	Baculin Point.	7° 27.0′ N 126° 35.6′ E	**Fl.(2)W.** period 10s			Fiberglass tower	

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			PHILIPPINES				
15147.5 *F 2239.3*	Pusan Point.	7° 17.6′ N 126° 36.1′ E	**Fl.W.** period 5s			Concrete structure.	
15148 *F 2238*	Mati, Pujada Bay, E. of pier, on beach.	6° 57.1′ N 126° 13.2′ E	**Fl.R.** period 5s	36 **11**	4	White framework tower; 33.	Visible seaward over an arc of 180°.
15150 *F 2237*	Pujada Island.	6° 46.8′ N 126° 16.6′ E	**Fl.R.** period 5s		12		
15151 *F 2239*	Lamigan Point.	6° 47.9′ N 126° 20.3′ E	**Fl.W.** period 5s	33 **10**	12	Concrete tower; 32.	
15152 *F 2236*	**Cape San Augustin.**	6° 16.3′ N 126° 11.7′ E	**Fl.W.** period 5s	112 **34**	**15**	Concrete tower; 32.	
15156 *F 2138*	**Palmas Island.**	5° 33.8′ N 126° 34.8′ E	**Fl.(3)W.** period 20s fl. 0.5s, ec. 3.5s fl. 0.5s, ec. 3.5s fl. 0.5s, ec. 11.5s	426 **130**	**23**	White framework structure; 98.	
	RACON		**M(– –)**				(3 & 10cm).
15160 *F 2232*	Talikud Island.	6° 54.5′ N 125° 41.4′ E	**Fl.W.** period 5s		10	Round concrete tower; 33.	Visible 313°-151°.
15160.1 *F 2233*	Paet Point.	6° 54.3′ N 125° 46.3′ E	**Fl.W.** period 5s				
15161 *F 2235.3*	Mapanga.	7° 03.0′ N 125° 57.0′ E	**Fl.(2)W.** period 10s				
15161.5 *F 2226.8*	Kiambing.	6° 01.8′ N 124° 30.5′ E	**Fl.W.** period 5s	328 **100**	12	Metal tower; 20.	
15162 *F 2226.7*	Buca Point.	5° 57.5′ N 124° 40.3′ E	**Fl.W.** period 10s			Fiberglass structure.	
15163 *F 2235*	Panacan.	7° 09.2′ N 125° 39.6′ E	**Fl.G.** period 5s		8	Concrete structure.	
15164 *F 2234*	Davao, on beach, S. of wharf.	7° 04.6′ N 125° 37.5′ E	**Fl.G.** period 5s	37 **11**	10	White metal and fiberglass tower; 33.	Visible 226°-033°.
15165 *F 2231.7*	Pasig point.	6° 49.4′ N 125° 24.6′ E	**Fl.W.** period 5s				
15166 *F 2234.5*	Lanang Point.	7° 07.3′ N 125° 39.7′ E	**Fl.R.** period 5s		11	Concrete structure.	
15167 *F 2235.5*	-Bitaugan.	6° 46.4′ N 126° 04.6′ E	**Fl.W.** period 10s			Fiberglass structure.	
15167.3 *F 2235.7*	-Sigaboy Island.	6° 37.7′ N 126° 04.1′ E	**Fl.W.** period 5s			Fiberglass structure.	
15168 *F 2230*	**Colapsin Point.**	6° 37.9′ N 125° 25.7′ E	**Fl.W.** period 5s	244 **74**	**15**	Concrete structure.	Visible 047°-313°.
15172 *F 2231*	**Malalag Bay**, NE. side of bay.	6° 36.8′ N 125° 25.6′ E	**Fl.R.** period 5s	444 **135**	**15**	Concrete structure.	Visible 306°-170°.
15176 *F 2231.2*	**Port Malalag.**	6° 35.9′ N 125° 24.7′ E	**Fl.W.** period 5s	102 **31**	**15**	Concrete structure.	Visible 108°-354°.
15178 *F 2231.3*	-Malalag River.	6° 36.2′ N 125° 24.0′ E	**Fl.R.** period 5s		7	Concrete structure.	
15180 *F 2231.4*	-Bolton Reef.	6° 37.6′ N 125° 24.5′ E	**Fl.W.** period 5s	16 **5**	11	White concrete beacon.	
15181 *F 2229*	Tubalan Head.	6° 30.0′ N 125° 35.6′ E	**Fl.(2)G.** period 5s			Fiberglass structure.	

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			PHILIPPINES				
15181.3 *F 2228.9*	Tingulo Point.	6° 21.6′ N 125° 38.3′ E	**Fl.W.** period 10s				
15181.5 *F 2228.7*	Davao del Sur.	6° 14.9′ N 125° 41.4′ E	**Fl.(3)W.** period 15s			Fiberglass structure.	
15181.7 *F 2228.6*	Banos Point.	5° 55.3′ N 125° 39.6′ E	**Fl.W.** period 10s				
15181.8 *F 2227*	Makar.	6° 05.8′ N 125° 09.6′ E	**Fl.G.** period 5s				
15182 *F 2227.2*	Canalasan Cove.	5° 49.6′ N 125° 12.2′ E	**Fl.W.** period 5s	36 **11**	5	Concrete post; 25.	
15184 *F 2228*	Tinaca Point.	5° 33.3′ N 125° 20.0′ E	**Fl.W.** period 5s	140 **43**	11	White concrete tower; 35.	
15185 *F 2228.3*	Balut Island, on Manamil Point.	5° 22.2′ N 125° 21.1′ E	**Fl.W.** period 5s			Fiberglass structure.	
15185.5 *F 2228.5*	Olanivan Island.	5° 30.9′ N 125° 29.4′ E	**Fl.W.** period 8s			Fiberglass structure.	
15187 *F 2226.2*	Tapian Point.	7° 08.8′ N 124° 03.8′ E	**Fl.W.** period 7s			White concrete tower; 33.	
15188 *F 2226*	Cotabato, river entrance.	7° 15.3′ N 124° 11.7′ E	**Fl.G.** period 5s	34 **10**	10	Metal tower; 30.	
15189 *F 2226.1*	Bongo Island.	7° 17.8′ N 124° 01.7′ E	**Fl.W.** period 10s				
15190 *F 2225.5*	**Polloc Harbor.**	7° 21.1′ N 124° 13.2′ E	**Fl.R.** period 5s		**15**	Concrete structure.	
15191.5 *F 2225.3*	Sultan Naga Dimaporo.	7° 47.8′ N 123° 43.0′ E	**Fl.G.** period 5s		10		
15191.7 *F 2225.2*	Tukuran.	7° 50.8′ N 123° 34.5′ E	**Fl.W.** period 7s				
15192 *F 2225*	Pagadian Bay.	7° 49.3′ N 123° 26.2′ E	**Fl.R.** period 5s		12	Metal mast; 33.	
15194 *F 2224.7*	Dumagok Island.	7° 47.5′ N 123° 26.2′ E	**Fl.(2)W.** period 5s		12	Fiberglass structure.	
15195 *F 2224.5*	Tambatan Point.	7° 26.0′ N 123° 27.0′ E	**Fl.W.** period 10s				
15196 *F 2224*	Margosatubig, pier, head.	7° 34.5′ N 123° 10.0′ E	**Fl.(2)W.** period 5s		6	Fiberglass mast; 13.	
15197 *F 2224.2*	Malangas.	7° 37.5′ N 123° 02.4′ E	**Fl.(2)W.** period 10s			Fiberglass structure.	
15198 *F 2222.5*	Naga.	7° 47.0′ N 122° 41.6′ E	**Fl.(3)W.** period 15s			Fiberglass structure.	
15200 *F 2218*	**Little Santa Cruz Island.**	6° 53.1′ N 122° 02.5′ E	**Fl.(3)W.** period 15s	53 **16**	**20**	White framework structure; 53.	Partially obscured by Great Santa Cruz Island.
15204 *F 2220*	Zamboanga, outer extremity of Government Wharf.	6° 54.1′ N 122° 04.4′ E	**Fl.R.** period 5s	36 **11**	9	Beacon; 30.	
15212 *F 2219*	-Ruined pier, head.	6° 54.2′ N 122° 04.3′ E	**F.R.**			Wooden post, white triangular daymark point up; 10.	
15214 *F 2210*	Batorampon Point.	7° 06.4′ N 121° 53.9′ E	**Fl.(3)W.** period 8s				
15214.3 *F 2209*	Sirawai.	7° 35.2′ N 122° 08.3′ E	**Fl.(3)W.** period 6s	33 **10**		White steel and fiberglass tower; 33.	

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			PHILIPPINES				
15214.5 *F 2208*	Santa Maria.	7° 45.6′ N 122° 06.2′ E	**Q.(2)W.** period 2s				
15214.7 *F 2207.5*	**Murcielagos.**	8° 07.0′ N 122° 26.5′ E	**Fl.W.** period 7s	36 **11**	**15**	Metal and fiberglass tower; 33.	
15214.8 *F 2207.8*	Coronado Point.	7° 57.4′ N 122° 13.3′ E	**Fl.(2)W.** period 10s				
15215 *F 2207*	Sindangan.	8° 09.7′ N 122° 39.6′ E	**Fl.(4)W.** period 15s				
15216 *F 2214*	**Sibago Island.**	6° 44.5′ N 122° 24.1′ E	**Fl.W.** period 10s	705 **215**	**32**	Galvanized metal tower; 75.	
15220 *F 2216*	Malamaui Island.	6° 44.6′ N 121° 59.5′ E	**Fl.R.** period 5s	36 **11**	7	Concrete tower; 33.	Visible 190°-265° and in Isabela Channel.
15222 *F 2221*	Kulibato Point.	6° 40.3′ N 122° 09.6′ E	**Fl.W.** period 5s	236 **72**	7	Metal tower; 36.	
15224 *F 2206*	Mataja Island, S. point.	6° 33.9′ N 121° 41.9′ E	**Fl.W.** period 5s	62 **19**		Red framework structure; 49.	Visible 172°-090°.
15228 *F 2204*	Tatalan Islands, S. end.	6° 13.0′ N 121° 50.2′ E	**Fl.W.** period 5s	45 **14**	12	White concrete tower; 29.	Visible 260°-145°.
15232 *F 2196*	**Jolo Harbor.**	6° 03.4′ N 121° 00.0′ E	**Fl.R.** period 5s	58 **18**	**18**	White metal framework tower; 52.	Visible 071°-207°.
15236 *F 2192*	Siasi Island, Siasi Wharf.	5° 32.8′ N 120° 48.8′ E	**F.R.**			Mast; 16.	
15236.5 *F 2192.5*	-Busbus Pt.	5° 34.4′ N 120° 49.2′ E	**Fl.W.** period 5s	30 **9**	7	Concrete structure.	
15240 *F 2200*	**N. Ubian Island.**	6° 10.4′ N 120° 27.5′ E	**Fl.W.** period 5s	35 **11**	**18**	White concrete tower; 32.	Visible 086°-289°.
15244 *F 2194*	**Pearl Bank.**	5° 50.0′ N 119° 44.0′ E	**Fl.W.** period 5s	62 **19**	**15**	Red round steel tower; 57.	Partially obscured by trees 018°-020° and 031°-033°.
15246 *F 2189*	**Saluag Island.**	4° 35.4′ N 119° 28.1′ E	**Fl.W.** period 5s	95 **29**	**20**	Metal structure.	
15248 *F 2190*	Port Bongao, extremity of reef.	5° 02.1′ N 119° 46.5′ E	**Fl.W.** period 5s	30 **9**	12	Concrete tower; 32.	Visible 294°-339°.
15252 *F 2191*	New Batu Batu, on pier.	5° 04.1′ N 119° 53.0′ E	**Fl.G.** period 5s	14 **4**	1	Wooden tripod.	

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			RUSSIA				
	BERING STRAIT:						
15260 *M 8232*	-Pamyatnik Dezhneva.	66° 00.7′ N 169° 43.5′ W	**L.Fl.W.** period 6s fl. 2s, ec. 4s	295 **90**	14	White concrete tower, platform; 33.	Visible 215°-010°. Seasonal. Reserve light Fl.(3)W. 60s 18M 0.1 mile E.
15268 *M 8226*	-Ostrov Ratmanova (Big Diomede Island), N. shore.	65° 48.5′ N 169° 02.3′ W	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	138 **42**	11	White four-sided pyramid, platform; 13.	Shown Jul. 25 to Dec. 1.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			RUSSIA				
	ZALIV LAVRENTIYA:						
15272 *M 8220*	-Mys Nunyamo.	65° 37.1′ N 170° 38.4′ W	**L.Fl.W.** period 8s fl. 2s, ec. 6s	75 **23**	10	Four-sided truncated pyramid, orange trapezoidal daymark, white stripe; 16.	Shown Jul.25 to Dec.1.
15280 *M 8214*	-Mys Krigygun.	65° 28.1′ N 171° 03.3′ W	**Fl.W.** period 4s fl. 0.5s, ec. 3.5s	72 **22**	11	Pyramid structure, platform,white trapezoidal daymark, black stripe; 30.	Visible 250°-080°. Shown Jul. 25 to Dec. 1.
15281 *M 8216*	-Mys Khargilakh.	65° 35.3′ N 170° 58.9′ W	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	43 **13**	7	Metal post, platform, orange rectangular daymark, white stripe; 36.	Shown Jul. 25 to Dec.1. **Radar reflector.**
15281.1 *M 8217*	-Lavrentiya.	65° 35.6′ N 171° 02.0′ W	**Fl.R.** period 1.5s fl. 0.5s, ec. 1s	115 **35**	3	White four-sided truncated pyramid, black stripe; 23.	Shown Jul. 25 to Dec. 1. **Radar reflector.**
15282 *M 8212*	Lorino.	65° 30.5′ N 171° 38.9′ W	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	66 **20**	13	Orange metal post, platform, green rectangular daymark; 33.	Shown Jul.25 to Dec.1. **Radar reflector.**
15283 *M 8211*	Mechigmenskaya Guba.	65° 28.7′ N 172° 04.2′ W	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	26 **8**	10	White metal post, platform, green rectangular daymark; 20.	Shown Jul.25 to Dec.1. **Radar reflector.**
15284 *M 8208*	Mys Nygligan.	65° 04.1′ N 172° 05.7′ W	**Fl.W.** period 2.5s fl. 0.5s, ec. 2s	152 **46**	10	White square pyramid, black band, platform; 36.	Shown Jul. 25 to Dec.1.
15288 *G 7110*	Saint Lawrence Island, NW. end, AVIATION LIGHT.	63° 46.0′ N 171° 44.0′ W	**Al.Fl.W.G.**				
15289 *M 8210*	Ostrov Arakamchechen.	64° 45.4′ N 172° 03.9′ W	**L.Fl.W.** period 10s fl. 2s, ec. 8s	161 **49**	10	Metal post, platform, white rectangular daymark, black stripe; 36.	Shown Jul.25 to Dec.1.
15289.1 *M 8195*	Yanrakynnot.	64° 54.6′ N 172° 30.3′ W	**Fl.W.** period 10s fl. 1s, ec. 9s	118 **36**	9	Metal post, platform, white rectangular daymark, black stripe; 36.	Shown Jul.25 to Dec.1.
15289.3 *M 8194.2*	Ostrov Kynkay.	64° 40.6′ N 172° 43.4′ W	**Fl.W.** period 2.5s fl. 0.5s, ec. 2s	144 **44**	6	White square truncated pyramid, platform; 20.	Shown Jul. 25 to Dec.1.
15289.7 *M 8194.8*	Ostrov Nuneangan.	64° 36.7′ N 172° 20.5′ W	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	394 **120**	10	Orange wooden cabin, white stripe; 6.	Shown Jul. 25 to Dec. 1.
15300 *M 8196*	Mys Chaplina.	64° 24.3′ N 172° 14.2′ W	**L.Fl.W.** period 6s fl. 2s, ec. 4s	66 **20**	14	Brown four-sided metal framework pyramid, white rectangular daymark, black stripe; 49.	Reserve light Fl.W. 12s 11M. **Radar reflector.**
15302 *M 8194*	Mys Galechnyy.	64° 25.5′ N 172° 47.8′ W	**Fl.W.** period 5s fl. 1s, ec. 4s	16 **5**	10	Orange four-sided truncated pyramid; 23.	Shown Jul.25 to Dec.1.
15303 *M 8193*	Novoye Chapalino.	64° 29.8′ N 172° 51.3′ W	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	69 **21**	10	Mast, platform, orange rectangular daymark, white stripe; 30.	Shown Jul.25 to Dec.1.
15304 *M 8192*	Mys Ploskiy.	64° 18.6′ N 172° 50.9′ W	**L.Fl.W.** period 10s fl. 2s, ec. 8s	210 **64**	11	Metal post, platform, white rectangular daymark; 30.	Shown Jul.25 to Dec.1.
15308 *M 8190*	Kivak, about 4.7 kilometers SW. of Mys Ploskiy.	64° 16.1′ N 172° 56.8′ W	**Fl.W.** period 4s fl. 0.5s, ec. 3.5s	157 **48**	11	Metal mast with platform, white rectangular daymark, black stripe; 36.	Shown Jul.25 to Dec.1.
15312 *M 8188*	Gora Lysaya Golova.	64° 17.9′ N 173° 21.9′ W	**Fl.W.** period 6s fl. 0.5s, ec. 5.5s	240 **73**	14	Four-sided truncated pyramid, white trapezoidal daymark, black stripe; 20.	Shown Jul.25 to Dec.1.

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			RUSSIA				
	BUKHTA PROVIDENIYA:						
15316 *M 8186*	-Mys Gaydamak, W. side of entrance to Reyd Plover.	64° 22.6′ N 173° 21.8′ W	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	39 **12**	8	White square brick tower, red band; 26.	Shown Jul. 25 to Dec. 1. **Radar reflector.**
15317 *M 8183*	-Bukhta, Yasnaya Polyana, Range, front.	64° 26.6′ N 173° 10.8′ W	**Fl.G.** period 1.5s fl. 0.5s, ec. 1s	43 **13**	5	Black mast, platform, white rectangular daymark,black stripe; 26.	Visible on range line only. Shown Jul.25 to Dec.1.
15317.5 *M 8183.1*	---Rear, 366 meters 035°48′ from front.	64° 26.7′ N 173° 10.3′ W	**L.Fl.G.** period 6s fl. 2s, ec. 4s	46 **14**	5	Mast, platform,white rectangular daymark, black stripe; 26.	Visible on range line only. Shown Jul.25 to Dec.1.
15320 *M 8180*	-Komsomol′skiye, Range, front.	64° 25.6′ N 173° 11.5′ W	**Fl.R.** period 1.5s fl. 0.5s, ec. 1s	46 **14**	9	Orange concrete three-sided pyramid, white stripe, platform; 26.	Visible on range line only. Shown Jul.25 to Dec.1.
15324 *M 8182*	--Rear, 224 meters 070°36′ from front.	64° 25.6′ N 173° 10.7′ W	**L.Fl.R.** period 6s fl. 2s, ec. 4s	105 **32**	9	Orange concrete three-sided pyramid, white stripe, platform; 29.	Visible on range line only. Shown Jul. 25 to Dec. 1.
	-Bukhta Emma:						
15328 *M 8176*	--Approach Range, front, SW. extension of Mys Likhacheva.	64° 25.4′ N 173° 15.4′ W	**L.Fl.G.** period 6s fl. 2s, ec. 4s	121 **37**	8	White stone three-sided pyramid, red stripe; 30.	Reserve light Q.W. 8M. Shown Jul.25 to Dec.1.
15332 *M 8178*	---Rear, 567 meters 051°54′ from front.	64° 25.5′ N 173° 14.8′ W	**L.Fl.G.** period 6s fl. 2s, ec. 4s	167 **51**	8	White stone three-sided pyramid, red stripe; 36.	Reserve light Iso.W. 2s 8M. Shown Jul.25 to Dec.1.
15336 *M 8173*	-Zapadnyy.	64° 22.5′ N 173° 25.5′ W	**Fl.W.** period 5s fl. 1s, ec. 4s	30 **9**	2	White trapezoidal daymark, red stripe; 20.	Shown Jul. 25 to Dec. 1.
15340 *M 8172.5*	-Mys Severnyy.	64° 20.6′ N 173° 31.6′ W	**Fl.W.** period 3s fl. 1s, ec. 2s	108 **33**	8	Four-sided pyramid, platform, white trapezoidal daymark; 23.	Shown Jul.25 to Dec.1.
15344 *M 8172*	**-Mys Lesovskogo.**	64° 20.5′ N 173° 34.3′ W	**L.Fl.W.** period 10s fl. 2s, ec. 8s	167 **51**	**18**	Red mast, white rectangular daymark; 30.	Shown Jul.25 to Dec.1.
	ANADYRSKIY LIMAN:						
15345 *M 8169*	-Bukhta Melkaya Range, front.	64° 47.6′ N 177° 34.1′ E	**2 V.Q.R.**	187 **57**	11	Four-sided metal framework tower, black stripe, white rectangular daymark; 89.	Visible 069°30′-076°30′.
15345.01 *M 8169.1*	--Rear, 732 meters 073° from front.	64° 47.7′ N 177° 35.0′ E	**Iso.R.** period 3s	335 **102**	11	Four-sided metal framework tower, white stripe; 82.	Visible 069°30′-076°30′.
15348 *M 8150*	**Mys Navarin.**	62° 22.2′ N 179° 09.6′ E	**Fl.W.** period 8s fl. 1s, ec. 7s	246 **75**	**18**	Red octagonal concrete tower, white bands; 56.	Visible 223°-350°. **Radiobeacon.**
15352 *M 8153*	Mys Korobitsina.	62° 49.8′ N 179° 34.3′ E	**Fl.W.** period 6s fl. 1.5s, ec. 4.5s	180 **55**	8	White round struture, metal framework tower, red bands; 39.	Shown Jul. 20 to Nov. 1.
15353 *M 8157*	Beringovskiy Range, front.	63° 03.8′ N 179° 20.5′ E	**Oc.R.** period 4s	62 **19**	7	Black and white four-sided concrete tower; 43.	Shown Jul.20 to Nov.1.
15353.1 *M 8157.1*	-Rear, 1.2 miles 139° from front.	63° 04.5′ N 179° 18.4′ E	**Fl.R.** period 3s fl. 0.5s, ec. 2.5s	167 **51**	7	Black and white four-sided concrete tower; 33.	Visible 137°30′-140°30′.
15353.5 *M 8157.5*	-Pier.	63° 03.8′ N 179° 22.5′ E	**Oc.R.** period 3s	33 **10**	3	Red metal post; 20.	Shown Jul.20 to Nov.1.
15356 *M 8159*	Mys Barykova.	63° 05.8′ N 179° 26.8′ E	**Fl.W.** period 4s fl. 1s, ec. 3s	338 **103**	9	Red octagonal concrete tower; 26.	Shown Jul. 20 to Nov. 1.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			RUSSIA				
	ZALIV KORFA:						
15408 *M 8128*	-Skrtyy.	60° 26.6′ N 166° 09.5′ E	**Iso.W.** period 3s	203 **62**	9	White octagonal stone tower, black band; 26.	Visible 240°-070°. Shown May 15 to Dec. 15.
15410 *M 8129*	**-Smirnova.**	59° 54.3′ N 166° 23.9′ E	**Fl.W.** period 8s fl. 1s, ec. 7s	236 **72**	**18**	Octagonal stone tower, white and black bands; 56.	Visible 222°-013°. Shown Jun. 30 to Dec. 15.
15412 *M 8130*	-Mys Govena.	59° 48.5′ N 166° 06.2′ E	**L.Fl.W.** period 6s fl. 2s, ec. 4s	240 **73**	9	Metal framework pyramid, lantern, near concrete tower; 39.	Visible 302°-184°.
15416 *M 8126*	-Mys Oria.	59° 59.3′ N 165° 11.9′ E	**Fl.W.** period 5s fl. 1s, ec. 4s	305 **93**	9	Four-sided metal framework tower, platform, yellow daymark, black stripe; 36.	Shown Jun. 30 to Dec. 15.
15420 *M 8125*	Ostrov Verkhoturova.	59° 37.1′ N 164° 39.5′ E	**Fl.W.** period 4s fl. 1s, ec. 3s	246 **75**	8	Black four-sided concrete tower, white stripe; 39.	Visible 350°-232°. Shown Jun. 30 to Nov. 30.
15424 *M 8120*	**Mys Ozernoi.**	57° 43.5′ N 163° 19.0′ E	**Fl.W.** period 8s fl. 1s, ec. 7s	194 **59**	**18**	Black round concrete tower, black base, white stripes; 82.	
15428 *M 8108*	**Mys Afrika.**	56° 11.0′ N 163° 21.1′ E	**Fl.W.** period 6s fl. 1.5s, ec. 4.5s	125 **38**	**17**	Black concrete tower, white bands; 95.	Reserve light range 8M.
15432 *M 8102*	**Mys Kronotskiy.**	54° 45.3′ N 162° 08.2′ E	**Fl.(3)W.** period 10s fl. 0.2s, ec. 1.9s fl. 0.2s, ec. 1.9s fl. 0.2s, ec. 5.6s	174 **53**	**20**	Black octagonal concrete tower, white stripes; 43.	Visible 247°-043°. Reserve light Fl.W. 10s 8M.
15440 *M 8096*	**Mys Shipunskiy.**	53° 06.6′ N 160° 01.8′ E	**L.Fl.W.** period 6s fl. 2.5s, ec. 3.5s	817 **249**	**22**	Red four-sided stone tower, white bands; 26.	Visible 197°-100°. Obscured locally 038°-100°. Reserve light Fl.W. 6s 8M.
15440.5 *M 8076*	-On shore.	53° 04.5′ N 158° 58.5′ E	**Fl.W.** period 3s fl. 0.5s, ec. 2.5s	203 **62**	9	Four-sided metal framework tower, platform, red trapezoidal daymark, white band; 49.	
15441 *M 8069*	**Mys Mayachnyy.**	52° 53.9′ N 158° 42.4′ E	**Oc.W.** period 7s lt. 5s, ec. 2s	305 **93**	**25**	White metal tower, black bands; 45.	Visible 240°-048°. Reserve light range 9M.
15441.3 *M 8070.5*	**-Mys Bezymyannyy.**	52° 53.9′ N 158° 38.7′ E	**L.Fl.W.** period 12s fl. 4.5s, ec. 7.5s	341 **104**	**22**	White octagonal tower, base; 26.	Reserve light range 16M.
15441.6 *M 8068*	-Ostrov Starichkov.	52° 46.6′ N 158° 37.4′ E	**Fl.W.** period 4s fl. 1s, ec. 3s	528 **161**	9	Metal framework tower, black rectangular daymark; 20.	
15442 *M 8067*	Mys Opasnyy.	52° 41.6′ N 158° 35.5′ E	**Fl.W.** period 6s fl. 1s, ec. 5s	577 **176**	13	Metal framework tower, red trapezoidal daymark, white bands; 32.	Visible 142°-022°.
15442.5 *M 8066*	Russkiy.	52° 26.2′ N 158° 30.4′ E	**Fl.W.** period 4.5s fl. 1.5s, ec. 3s	200 **61**	9	White octagonal tower, black bands; 26.	Visible 069°-286°.
15442.7 *M 8065*	Mys Povorotnyy.	52° 18.0′ N 158° 32.5′ E	**Fl.W.** period 4s fl. 1s, ec. 3s	594 **181**	9	Metal framework tower, white rectangular daymark, red bands; 26.	Visible 195°-015°.
15516 *M 8064*	**Kruglyy.**	52° 04.1′ N 158° 19.2′ E	**Fl.(2)W.** period 10s fl. 0.2s, ec. 2.4s fl. 0.2s, ec. 7.2s	479 **146**	**29**	White octagonal tower, black bands; 52.	Visible 212°-015°30′. Reserve light Fl.W. 10s 10M.
15520 *M 8062*	Lopatka.	50° 56.2′ N 156° 46.5′ E	**Fl.W.** period 5s	190 **58**	9	Brown round metal tower, platform; 16.	
15522 *M 8041.5*	Poluostrov Vladimira.	50° 50.3′ N 155° 39.8′ E	**Fl.W.** period 3s fl. 0.5s, ec. 2.5s	43 **13**	9	White octagonal concrete tower, black bands; 26.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			RUSSIA				
15525 *M 8063*	**Mys Lopatka.**	50° 52.3′ N 156° 39.9′ E	**L.Fl.(2)W.** period 15s fl. 3s, ec. 4s fl. 3s, ec. 5s	226 **69**	**22**	Red round metal tower, white bands; 96.	Reserve light Fl.W. 7.5s 10M.
15526 *M 8063.5*	Mys Kambalnyy.	51° 06.2′ N 156° 42.3′ E	**L.Fl.W.** period 6s fl. 2s, ec. 4s	295 **90**	9	Black metal tower, white bands; 16.	
15528 *M 8038*	Ozernovskiy.	51° 29.1′ N 156° 29.5′ E	**Fl.R.** period 6s fl. 1.5s, ec. 4.5s	184 **56**	9	Four-sided metal tower, platform, lantern; 20.	Reserve light range 3M.
15530 *M 8037.5*	Vtoraya Yavinskaya.	51° 41.8′ N 156° 30.2′ E	**Fl.W.** period 5s	118 **36**	7	Four-sided metal tower, platform, lantern; 7.	**Radar reflector.**
15532 *M 8036*	**Oktyabr'skiy.**	52° 34.4′ N 156° 19.2′ E	**Fl.W.** period 6s	157 **48**	**18**	Round metal tower, black and white bands; 82.	Reserve light Fl.W. 6s 8M.
15538 *M 8043*	Mys Levashova.	50° 30.6′ N 156° 09.9′ E	**Fl.W.** period 5s	256 **78**	9	Octagonal concrete tower, black and white bands; 26.	Visible 180°-025°.
15552 *M 8030*	**Krutogorava.**	55° 06.0′ N 155° 36.4′ E	**Fl.(3)W.** period 15s fl. 0.4s, ec. 2.8s fl. 0.3s, ec. 2.7s fl. 0.4s, ec. 8.4s	262 **80**	**23**	White round metal tower, black top; 112.	Appears as F.W. at short range. Reserve light range 9M.
15553 *M 8028*	Mys Matugun.	61° 40.9′ N 160° 14.0′ E	**Fl.W.** period 5s fl. 1.5s, ec. 3.5s	203 **62**	8	Four-sided metal framework tower, black rectangular daymark; 20.	Visible 290°-236°.
15553.05 *M 8026*	Mys Nadezhda.	61° 30.2′ N 156° 41.5′ E	**Fl.W.** period 5s fl. 1.5s, ec. 3.5s	459 **140**	8	Four-sided metal framework tower, white rectangular daymark, black band; 20.	Visible 259°-013°.
15553.1 *M 8024*	Mys Viliginskiy.	61° 13.0′ N 156° 41.0′ E	**Fl.W.** period 3s fl. 1s, ec. 2s	486 **148**	4	Black four-sided metal framework tower, white cabin; 10.	Visible 200°-060°.
15553.15 *M 8022*	Mys Ostrovnoy.	60° 42.6′ N 155° 54.3′ E	**Fl.W.** period 4s fl. 1s, ec. 3s	171 **52**	5	Four-sided metal framework tower, white rectangular daymark, black stripe; 20.	
15560 *M 8021*	**Mys Alevina.**	58° 50.0′ N 151° 21.3′ E	**L.Fl.W.** period 7.5s fl. 3s, ec. 4.5s	190 **58**	**19**	White octagonal concrete tower, red bands; 62.	Visible 270°-152°. Reserve light Fl.W. 7.5s 9M.
15561 *M 8015*	**Mys Taran.**	59° 06.4′ N 151° 06.2′ E	**Fl.(3)W.** period 15s fl. 0.3s, ec. 2.7s fl. 0.3s, ec. 2.7s fl. 0.3s, ec. 8.7s	138 **42**	**18**	White octagonal concrete tower, red bands; 46.	Visible 355°-280°. Reserve light Fl.W. 7.5s 8M.
15561.1 *M 8010*	Mys Yuzhnyy.	59° 00.0′ N 150° 28.1′ E	**Fl.W.** period 3s fl. 1s, ec. 2s	712 **217**	8	White octagonal concrete tower; 20.	Visible 290°-202°.
15561.12 *M 8010.5*	-Bukhta Zavlova.	59° 05.5′ N 150° 37.1′ E	**Fl.W.** period 4s fl. 1s, ec. 3s	115 **35**	8	White octagonal concrete tower; 20.	Visible 063°-280°.
15561.4 *M 8013*	Ola.	59° 33.7′ N 151° 20.1′ E	**Fl.R.** period 3s fl. 1s, ec. 2s	46 **14**	4	Four-sided metal framework tower, white rectangular daymark, black bands; 39.	
15562 *M 8011*	**Mys Chirlkova.**	59° 29.1′ N 150° 30.1′ E	**Fl.W.** period 7.5s fl. 1.5s, ec. 6s	243 **74**	**19**	White octagonal concrete tower; 46.	Visible 306°-230°. Reserve light range 10M.
15562.2 *M 8012*	Bukhta Nosayeva Range, front.	59° 33.7′ N 150° 46.6′ E	**F.R.**	49 **15**	12	White octagonal concrete tower, black stripe, neon rectangular daymark; 49.	Visible 011°48′-131°48′. Shown 24 hours. Reserve light range 12M.
15562.21 *M 8012.1*	-Rear, 400 meters 071°48′ from front.	59° 33.8′ N 150° 47.0′ E	**F.R.**	141 **43**	12	White octagonal concrete tower, black stripe, neon rectangular daymark; 46.	Visible 011°48′-131°48′. Shown 24 hours. Reserve light range 12M.
15563 *M 8011.5*	Ostrov Nedorazumeniy.	59° 34.7′ N 150° 22.3′ E	**Fl.W.** period 3s fl. 0.5s, ec. 2.5s	226 **69**	4	Black metal framework tower; 7.	Visible 305°-180°. Shown Jun. 30 to Jan. 15.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			RUSSIA				
15564 *M 8009*	**Ostrov Spafar'yeva.**	59° 10.3′ N 149° 05.1′ E	**L.Fl.W.** period 9s fl. 3s, ec. 6s	285 **87**	**23**	Red round metal tower, white bands; 65.	Visible 263°-013°, 097°-156°. Reserve light Fl.W. 9s 8M.
15564.1 *M 8009.5*	-NW. point.	59° 12.3′ N 149° 03.1′ E	**Fl.W.** period 3s fl. 1s, ec. 2s	39 **12**	8	White octagonal concrete tower; 20.	Visible 027°-260°.
15566 *M 8008.2*	**Mys Duga Vostochnaya.**	59° 09.0′ N 146° 03.3′ E	**Fl.(2)W.** period 15s fl. 0.4s, ec. 3.5s fl. 0.4s, ec. 10.7s	269 **82**	**23**	Red round metal tower; 112.	Visible 250°-090°. Reserve light range 10M.
15566.2 *M 8008.1*	Mys Ushkalova.	59° 15.0′ N 145° 49.6′ E	**Fl.W.** period 4s fl. 1s, ec. 3s	161 **49**	8	Black round concrete tower, white band; 26.	Visible 322°-178°.
15566.55 *M 8008*	Inya.	59° 22.5′ N 144° 43.4′ E	**Fl.W.** period 5s fl. 1.5s, ec. 3.5s	69 **21**	9	Black four-sided metal framework tower; 56.	
15568 *M 8007*	**Mys Marekan.**	59° 19.4′ N 143° 27.5′ E	**L.Fl.W.** period 12s fl. 4.5s, ec. 7.5s	174 **53**	**20**	White round concrete tower, black bands; 112.	Reserve light Fl.W. 12s 10M.
15569 *M 8006*	Kukhtuy.	59° 21.4′ N 143° 10.4′ E	**Fl.W.** period 3s fl. 1s, ec. 2s	74 **23**	9	Black four-sided metal framework tower; 57.	
15582 *M 7986*	**Mys Litke.**	53° 57.3′ N 140° 19.3′ E	**Fl.W.** period 7.5s fl. 1.5s, ec. 6s	115 **35**	**17**	White stone building, white superstructure; 30.	Visible 125°-356°. Shown Jun. 15 to Dec. 1. Reserve light range 8M.
15584 *M 7985*	**Mys Men'shikova.**	53° 17.8′ N 141° 24.7′ E	**L.Fl.W.** period 7.5s fl. 3s, ec. 4.5s	331 **101**	**22**	White round tower, black bands; 62.	Shown Jun. 5 to Nov. 15. Reserve light range 8M.
15584.45 *M 7679.4*	Petunboppovskiye Range, front.	53° 21.1′ N 141° 46.2′ E	**Fl.W.** period 3s fl. 1s, ec. 2s	66 **20**	14	White octagonal stone tower, black stripe; 52.	Visible 119°36′-122°36′. Shown Jun. 5 to Nov. 10. Reserve light range 12M.
15584.46 *M 7679.41*	-Rear, 2,222 meters 121°06′ from front.	53° 20.5′ N 141° 48.0′ E	**F.W.**	112 **34**	14	Four-sided metal framework tower, white rectangular daymark, black stripe; 95.	Visible 119°36′-122°36′. Reserve light range 12M.
15585 *M 7910*	**Mys Moskalvo.**	53° 38.9′ N 142° 29.6′ E	**Iso.W.** period 3s	135 **41**	**18**	White round metal tower, black stripe; 115.	Reserve light range 10M.
15587 *M 7679*	**Mys Marii.**	54° 18.6′ N 142° 15.8′ E	**Fl.W.** period 6s fl. 1.5s, ec. 4.5s	151 **46**	**17**	White octagonal stone tower; 59.	Visible 030°-246°. Shown Apr. 15 to Dec. 1. Reserve light range 10M.
15588 *M 7902*	**Mys Yelizavety.**	54° 25.1′ N 142° 43.5′ E	**Fl.(2)W.** period 15s fl. 0.3s, ec. 3.5s fl. 0.3s, ec. 10.9s	240 **73**	**22**	White square stone tower, white dwelling; 39.	Visible 111°-338°. Shown Jun. 1 to Jan. 1. Reserve light Fl.W. 3s 8M.
15589 *M 7904*	Mys Vnutrenniy.	53° 34.5′ N 142° 28.3′ E	**Iso.W.** period 3s	30 **9**	7	Black round metal tower, platform, white bands; 16.	Shown Jun. 15 to Nov. 25. **Radar reflector.**
15590 *M 7903*	Platform.	52° 42.9′ N 143° 34.1′ E	**Mo.(U)W.** period 15s		**15**	Platform.	**Horn.**
			Mo.(U)R. period 15s		4		
	PORT UGLEGORSK						
15720 *M 7714*	-Mole, W. head.	49° 04.6′ N 142° 01.8′ E	**Fl.(2)R.** period 5s fl. 1s, ec. 1s fl. 1s, ec. 2s	33 **10**	2	Red metal post, white band; 23.	
15720.1 *M 7714.2*	-Mole, E. head.	49° 04.6′ N 142° 01.9′ E	**Fl.(2)G.** period 5s fl. 1s, ec. 1s fl. 1s, ec. 2s	26 **8**	1	Green four-sided metal framework pyramid, white band; 20.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			RUSSIA				
15740 *M 7703*	-Small spur, NW. head.	50° 53.8′ N 142° 07.8′ E	**Fl.(2)G.** period 5s	31 **9**	1	Green metal mast, white band; 30.	Shown Apr. 15 to Dec. 15.
15744 *M 7700*	**Mys Zhonkiyer.**	50° 53.3′ N 142° 07.1′ E	**L.Fl.W.** period 33s fl. 3s, ec. 30s	259 **79**	**22**	White octagonal tower, dwelling; 59.	Visible 029°-171°. Shown Apr. 15 to Dec. 15. Reserve light range 8M.
	AMURSIKY LIMAN:						
15744.2 *M 7679.5*	-Vereshchaginskiy Range, front.	53° 18.2′ N 141° 47.7′ E	**L.Fl.R.** period 5s fl. 2s, ec. 3s	49 **15**	10	White octagonal stone tower, black stripe; 39.	Visible 132°24′-135°24′. Shown Jun. 5 to Nov. 10.
15744.21 *M 7679.51*	--Rear, 556 meters 133°54′ from front.	53° 18.0′ N 141° 48.0′ E	**L.Fl.R.** period 5s	108 **33**	10	Four-sided metal framework tower, white rectangular daymark, black stripe; 98.	Visible 132°24′-135°24′.
15744.26 *M 7680*	-Mys Rybnovsk Range, front.	53° 14.5′ N 141° 48.1′ E	**Fl.R.** period 4s fl. 1s, ec. 3s	66 **20**	14	White four-sided stone tower, black stripe, building; 49.	Shown Jun. 5 to Nov. 10. Reserve light range 11M.
15744.27 *M 7680.1*	--Rear, 928 meters 028°54′ from front.	53° 15.0′ N 141° 48.5′ E	**F.R.**	108 **33**	14	Four-sided metal framework tower, white rectangular daymark, black stripe; 92.	Visible 027°24′-030°24′. Reserve light range 11M.
15744.36 *M 7982.2*	**-Mys Uarke.**	52° 30.9′ N 141° 12.5′ E	**Fl.W.** period 6s fl. 1.5s, ec. 4.5s	436 **133**	**22**	White round stone tower, platform, building; 30.	Reserve light range 17M.
15744.4 *M 7982.1*	-Mys Tkhadgou Range, front.	52° 15.5′ N 141° 20.2′ E	**Iso.W.** period 6s	82 **25**	13	White octagonal tower, black stripe; 52.	Visible 197°42′-200°42′. Shown May 25 to Nov. 15.
15744.41 *M 7982.11*	--Rear, 1,113 meters 199°12′ from front.	52° 15.0′ N 141° 20.0′ E	**Iso.W.** period 6s	157 **48**	13	Four-sided metal framework tower, white rectangular daymark, black stripe; 69.	Visible 197°42′-200°42′. Reserve light F.W.
15744.45 *M 7982*	**-Mys Lazareva.**	52° 12.0′ N 141° 30.7′ E	**Iso.W.** period 6s	827 **252**	**22**	White square tower, black bands; 43.	Shown 20 May to 20 Nov. Reserve light range 8M. **Radiobeacon.**
15744.51 *M 7685*	-Pogibi North Range, front, 1392 meters 114° to common rear.	52° 13.5′ N 141° 38.7′ E	**Iso.R.** period 3s	56 **17**	12	White octagonal stone tower, black stripe; 36.	Visible 112°30′-115°30′. Shown 20 May to 20 Nov. Reserve light range 7M.
15744.52 *M 7685.1*	--Common rear, 1296 meters 114° from front.	52° 13.2′ N 141° 39.8′ E	**F.R.**	128 **39**	12	Red four-sided metal framework tower, white rectangular daymark, black stripe; 85.	Visible 112°30′-115°30′. Reserve light range 7M. Front 15744.51.
	--Common rear, 778 meters 034°42′ from front.		**Fl.R.** period 3s fl. 1s, ec. 2s	128 **39**	12		Reserve light F.R. 7M. Front 15744.53.
15744.53 *M 7685.2*	-South Range.	52° 12.8′ N 141° 39.4′ E	**Fl.R.** period 3s fl. 1s, ec. 2s	62 **19**	12	White octagonal stone tower, black stripe; 36.	Visible 033°12′-036°12′. Shown 20 May to 20 Nov. Reserve light range 7M.
15744.6 *M 7686*	-Mys Uanga Range, front.	52° 06.5′ N 141° 38.9′ E	**Iso.W.** period 4s	49 **15**	12	White octagonal stone tower, black stripe; 36.	Visible 155°42′-158°42′. Shown 20 May to 20 Nov.
15744.61 *M 7686.1*	--Rear, 369 meters 157°12′ from front.	52° 06.3′ N 141° 39.1′ E	**Iso.W.** period 4s	95 **29**	11	Red metal framework tower, white rectangular daymark, black stripe; 69.	Visible 155°42′-158°42′. Synchronized with front.
	-Amur Reka:						
15745 *M 7982.4*	--Mys Khuzi Range, front.	52° 41.8′ N 141° 14.8′ E	**Iso.W.** period 3s	62 **19**	14	White octagonal stone tower, black stripe; 52.	Visible 228°48′-231°48′. Shown 25 May to 15 Nov. Reserve light range 9M.
15745.1 *M 7982.41*	---Rear, 1114 meters 230°18′ from front.	52° 41.5′ N 141° 14.0′ E	**Iso.W.** period 3s	125 **38**	**17**	Four-sided metal framework tower, white trapezoidal daymark, black stripe; 95.	Visible 228°48′-231°48′. Synchronized with front. Reserve light range 9M.
15745.15 *M 7982.3*	--Mys Dzhaore South Range, front.	52° 39.8′ N 141° 16.9′ E	**L.Fl.W.** period 7.5s fl. 3s, ec. 4.5s	69 **21**	14	Wooden pyramid, white trapezoidal daymark, black stripe; 26.	Visible 319°36′-322°36′. Shown 25 May to 15 Nov. Reserve light range 9M.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			RUSSIA				
15745.16 *M 7982.31*	---Rear, 334 meters 321°06′ from front.	52° 40.0′ N 141° 16.7′ E	**L.Fl.W.** period 7.5s fl. 3s, ec. 4.5s	115 **35**	**16**	Wooden pyramid, white trapezoidal daymark, black stripe; 56.	Visible 319°36′-322°36′. Reserve light F.W. 9M.
15745.2 *M 7982.35*	--Mys Dzhaore N. Range, front.	52° 40.0′ N 141° 16.7′ E	**L.Fl.G.** period 7.5s fl. 3s, ec. 4.5s	66 **20**	10	Wooden pyramid, white trapezoidal daymark, black stripe; 26.	Visible 171°-174°. Reserve light range 5M.
15745.21 *M 7982.351*	---Rear, 373 meters 172°30′ from front.	52° 39.8′ N 141° 16.8′ E	**L.Fl.G.** period 7.5s fl. 3s, ec. 4.5s	128 **39**	10	Wooden pyramid, white trapezoidal daymark, black stripe; 36.	Visible 171°-174°. Reserve light F.G. 5M.
15760 *M 7678*	**Mys Orlova.**	51° 25.4′ N 140° 52.9′ E	**L.Fl.(3)W.** period 20s fl. 2s, ec. 1s fl. 2s, ec. 1s fl. 2s, ec. 12s	277 **84**	**23**	White octagonal stone tower, dwelling; 52.	Visible 104°30′-013°30′. Reserve light range 8M. **Radiobeacon.**
	DE KASTRI:						
15761 *M 7677*	-Mys Klykova Range, front.	51° 28.0′ N 140° 45.8′ E	**Fl.R.** period 3s	75 **23**	14	White octagonal stone tower, black stripe; 33.	Visible 283°36′-289°36′.
15761.1 *M 7677.1*	--Rear, 0.5 mile 286°36′ from front.	51° 28.2′ N 140° 45.0′ E	**Fl.R.** period 3s	138 **42**	14	White octagonal stone tower, black stripe; 33.	Visible 283°36′-289°36′. Synchronized with front.
15761.2 *M 7677.5*	-Mys Innokentiya Range, front.	51° 27.3′ N 140° 46.9′ E	**Fl.G.** period 3s fl. 0.5s, ec. 2.5s	95 **29**	10	White octagonal stone tower, black stripe; 49.	Visible 250°30′-253°30′.
15761.21 *M 7677.51*	--Rear, 0.4 mile 252° from front.	51° 27.3′ N 140° 46.9′ E	**Fl.G.** period 3s fl. 0.5s, ec. 2.5s	138 **42**	10	White octagonal stone tower, black stripe; 30.	Visible 250°30′-253°30′.
15761.3 *M 7675*	-Mys Nepimentyy.	51° 29.4′ N 140° 52.5′ E	**L.Fl.W.** period 5s fl. 2s, ec. 3s	518 **158**	9	White round concrete tower; 26.	Visible 240°-068°.
15761.35 *M 7676.5*	-Ostrov Observatorii.	51° 27.9′ N 140° 49.0′ E	**Q.W.**	89 **27**	8	White octagonal stone tower, red bands; 26.	Visible 200°-040°.
15761.4 *M 7676*	-Jetty, head.	51° 27.9′ N 140° 47.0′ E	**Iso.G.** period 4s	30 **9**	2	White round metal tower, platform, red band; 16.	Visible 190°-120°. **Radar reflector.**
15768 *M 7674*	**Mys Syurkum.**	50° 05.8′ N 140° 40.6′ E	**Fl.W.** period 8s fl. 0.5s, ec. 7.5s	246 **75**	**17**	White fiberglass tower, red bands; 46.	Visible 110°-350°. Reserve light range 10M.
15776 *M 7670*	**Mys Datta.**	49° 17.8′ N 140° 25.3′ E	**L.Fl.W.** period 7.5s fl. 3s, ec. 4.5s	279 **85**	**20**	White round metal tower, black bands, concrete base, platform; 39.	Visible 197°30′-036°30′. Reserve light range 10M. **Radiobeacon.**
	SOVETSKAYA GAVAN:						
15784 *M 7643*	**-Mys Milyutina.**	49° 02.7′ N 140° 19.7′ E	**L.Fl.R.** period 7.5s fl. 3s, ec. 4.5s	79 **24**	**15**	White octagonal stone tower; 30.	Visible 190°-036°. Reserve light range 5M. **Horn:** 3 bl. ev. 30s (bl. 4s, si. 2s, bl. 6s, si. 4s, bl. 4s, si. 10s).
15786 *M 7650*	-Mys Burnyy.	49° 05.6′ N 140° 20.3′ E	**Fl.W.** period 6s fl. 1.5s, ec. 4.5s	95 **29**	9	White round metal tower, platform; 26.	Visible 272°-092°. **Radar reflector.**
15788 *M 7651*	-Mys Khoy.	49° 05.5′ N 140° 18.8′ E	**L.Fl.G.** period 7.5s fl. 3s, ec. 4.5s	46 **14**	5	White octagonal stone tower;16.	Visible 263°-071°.
15790 *M 7652*	-Mys Yuzhnyy.	49° 04.6′ N 140° 18.8′ E	**Fl.R.** period 5s	69 **21**	3	White octagonal stone tower; 16.	Visible 125°-030°. **Radar reflector.**
15792 *M 7653*	-Vanina Range, front.	49° 05.4′ N 140° 15.7′ E	**Oc.R.** period 3s	164 **50**	12	White octagonal stone tower, red stripe, white four-sided base, neon rectangular daymark; 46.	Visible 220°06′-340°06′.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			RUSSIA				
15792.2 *M 7653.1*	--Middle, 330 meters 280°06′ from front.	49° 05.4′ N 140° 15.5′ E	**F.R.**	223 **68**	12	White octagonal stone tower, red stripe, neon rectnagular daymark; 30.	Visible 220°06′-340°06′. Reserve light visible 276°51′-283°21′.
15792.4 *M 7653.2*	--Rear, 750 meters 280°06′ from front.	49° 05.4′ N 140° 15.2′ E	**F.R.**	299 **91**	12	Four story building, lantern, neon rectangular daymark.	Visible 220°06′-340°06′.
15794 *M 7654*	-Prichal No 3.	49° 05.3′ N 140° 18.0′ E	**Fl.G.** period 5s fl. 0.5s, ec. 4.5s	72 **22**	2		**Radar reflector.**
15796 *M 7660*	-Muchkye.	49° 06.1′ N 140° 20.5′ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	56 **17**	4	White octagonal stone tower; 16.	Visible 063°30′-316°.
15798 *M 7642*	-Mys Putyatina.	49° 01.5′ N 140° 20.9′ E	**Oc.W.** period 3s	69 **21**	10	White octagonal stone tower, red band; 23.	Visible 105°-345°. **Radar reflector.**
15812 *M 7640*	**-Mys Krasnyy Partizan.**	48° 58.6′ N 140° 23.2′ E	**Fl.(2)W.** period 30s fl. 0.7s, ec. 7.1s fl. 0.7s, ec. 21.5s	278 **85**	**23**	White octagonal stone tower, dwelling; 52.	Visible 138°-018°. Reserve light Fl.W. 6s 12M. **Horn:** Mo.(R) 30s (bl. 2s, si. 6s, bl. 5s, si. 6s, bl. 2s, si. 9s).
15820 *M 7636*	**Mys Peschanyy.**	48° 27.1′ N 140° 10.5′ E	**Iso.W.** period 3s	102 **31**	**15**	White round concrete tower; 95.	Visible 185°-053°. Reserve light range 10M.
15824 *M 7634*	Mys Krestovozhvizhenskiy.	47° 58.3′ N 139° 32.2′ E	**L.Fl.W.** period 7.5s fl. 3s, ec. 4.5s	90 **27**	10	White round metal tower, platform; 26.	Visible 122°-058°. **Radar reflector.**
15828 *M 7630*	**Bukhta Nel′ma.**	47° 39.6′ N 139° 11.8′ E	**L.Fl.W.** period 12s fl. 4.5s, ec. 7.5s	262 **80**	**17**	White round metal tower; 26.	Visible 198°-020°. Reserve light range 7M.
15832 *M 7626*	**Mys Zolotoy.**	47° 19.0′ N 138° 59.3′ E	**Iso.W.** period 6s	103 **31**	**16**	White octagonal stone tower, red stripes; 66.	Visible 155°-079°. Reserve light range 10M.
15836 *M 7622*	**Mys Sosunova.**	46° 32.2′ N 138° 20.3′ E	**Fl.W.** period 6s fl. 1.5s, ec. 4.5s	217 **66**	**17**	White octagonal stone tower, black bands, white building; 49.	Reserve light range 10M.
15840 *M 7618*	**Mys Belkina.**	45° 49.3′ N 137° 41.4′ E	**Iso.W.** period 20s	324 **99**	**25**	White octagonal stone tower; 46.	Visible 204°-000°. Reserve light L.Fl.W. 13.5s 8M.
15844 *M 7617*	**Mys Mayachnyy.**	45° 23.3′ N 137° 09.1′ E	**Fl.W.** period 6s fl. 1.5s, ec. 4.5s	266 **81**	**16**	White octagonal stone tower; 20.	Visible 218°-038°. Reserve light range 9M.
15848 *M 7616*	Mys Strashnyy.	45° 01.8′ N 136° 38.6′ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	305 **93**	8	Red square metal framework tower; 20.	Visible 249°-244°.
15852 *M 7614*	**Mys Yegorova.**	44° 46.3′ N 136° 27.0′ E	**L.Fl.W.** period 12s fl. 4.5s, ec. 7.5s	302 **92**	**22**	White round metal tower black bands, dwelling; 62.	Visible 202°-044°. Reserve light range 9M.
15854 *M 7613*	Yakubovskogo.	44° 43.6′ N 136° 20.4′ E	**Iso.R.** period 4s	318 **97**	6	White square stone tower, red band; 23.	Visible 060°-340°. Reserve light range 4M.
15856 *M 7612*	**Zaliv Oprichnik.**	44° 26.8′ N 136° 02.1′ E	**L.Fl.W.** period 7.5s fl. 3s, ec. 4.5s	702 **214**	**23**	White octagonal stone tower; 46.	Visible 242°-043°. Reserve light L.Fl.W. 12s 6M.
15860 *M 7610*	**Mys Brinera.**	44° 20.5′ N 135° 50.2′ E	**Fl.(2)W.** period 7s fl. 0.2s, ec. 1.8s fl. 0.2s, ec. 4.8s	220 **67**	**22**	White octagonal masonry tower; 50.	Visible 182°-172°. Reserve light Oc.W. 7.5s 9M.
15864 *M 7608*	Mys Yuzhnyy.	44° 02.2′ N 135° 37.9′ E	**Fl.W.** period 3s fl. 1s, ec. 2s	290 **88**	7	White round metal tower, red platform; 16.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			RUSSIA				
	ZALIV VLADIMIRA:						
15868 *M 7604*	**-Mys Balyuzek.**	43° 55.3′ N 135° 31.2′ E	**Fl.(3)W.** period 15s fl. 0.3s, ec. 2.8s fl. 0.3s, ec. 2.8s fl. 0.3s, ec. 8.5s	262 **80**	**23**	White square masonry tower, red cupola, white stone building; 46.	Reserve light L.Fl.W. 20s 8M. **Horn:** 3 bl. ev. 30s (bl. 2s, si. 3s, bl. 4s, si. 5s, bl. 6s, si. 10s).
15880 *M 7596*	-Mys Sobora.	43° 45.9′ N 135° 25.9′ E	**Fl.R.** period 4s fl. 1s, ec. 3s	420 **128**	4	Red square metal framework pyramid, platform, white four-sided concrete base; 23.	Visible 214°-047°.
15896 *M 7588*	**-Ostrov Chikhacheva.**	43° 40.6′ N 135° 16.6′ E	**L.Fl.W.** period 7.5s fl. 3s, ec. 4.5s	364 **111**	**23**	White square stone tower, hut; 39.	Reserve light range 9M.
15900 *M 7584*	**Mys Nizmennyy.**	43° 30.4′ N 135° 08.4′ E	**Fl.(3)W.** period 7.5s	206 **63**	**18**	White stone tower, hut; 59.	Visible 220°-053°.
15908 *M 7581*	**Mys Dal'niy.**	43° 18.7′ N 134° 46.5′ E	**Iso.W.** period 6s	608 **185**	**22**	Red octagonal stone tower, white house; 46.	Visible 228°-060°. Reserve light range 8M.
15909 *M 7579.5*	Mys Titova.	43° 05.9′ N 134° 18.5′ E	**Fl.W.** period 3s	344 **105**	10	Red four-sided framework pyramid beside white tower; 10.	
15909.5 *M 7579*	Ostrov Opasnyy.	43° 01.7′ N 134° 11.1′ E	**Fl.W.** period 4s fl. 1s, ec. 3s	180 **55**	7	Red metal framework tower; 16.	
15920 *M 7578*	Ostrov Orekhova, SW. part of island.	42° 53.6′ N 133° 53.0′ E	**Iso.R.** period 3s	200 **61**	13	White octagonal stone tower; 26.	Reserve light range 6M.
15924 *M 7576*	**Mys Ostrovnoy.**	42° 48.5′ N 133° 43.5′ E	**Iso.W.** period 3s	525 **160**	**19**	White metal framework tower, white building; 36.	Reserve light Fl.W. 3s 10M.
15926 *M 7574*	Mys Yakimova.	42° 49.0′ N 133° 31.0′ E	**Fl.R.** period 3s fl. 0.5s, ec. 2.5s	105 **32**	4	Red four sided metal framework pyramid, platform; 16.	
15934 *M 7573*	Bugristyy.	42° 42.5′ N 133° 12.1′ E	**Fl.(3)R.** period 10s fl. 0.1s, ec. 1.1s fl. 0.1s, ec. 1.1s fl. 0.1s, ec. 7.5s	387 **118**	14	Red round metal tower, platform; 26.	Visible 210°-075°. **Radar reflector.**
	ZALIV NAKHODKA:						
15936 *M 7572*	**-Mys Povorotnyy.**	42° 40.4′ N 133° 02.6′ E	**Oc.W.** period 8s lt. 6s, ec. 2s	219 **67**	**22**	White octagonal stone tower, lantern structure; 40.	Visible 262°30′-127°30′. Reserve light range 12M.
15940 *M 7569*	-Mys Kamenskogo.	42° 45.5′ N 133° 03.1′ E	**Fl.W.R.G.** period 3s fl. 1s, ec. 2s	30 **9**	7	White octagonal stone tower; 16.	W.-230°-048°, G.-063°, R-079°, W.-133°.
15942 *M 7570*	-Beregovoy.	42° 46.4′ N 133° 02.7′ E	**Fl.Y.** period 4s fl. 0.5s, ec. 3.5s	187 **57**	4	Red round metal tower; 26.	**Radar reflector.**
15944 *M 7563.2*	**-Mys Nepristupnyy.**	42° 47.8′ N 133° 00.4′ E	**Iso.W.** period 6s	100 **30**	**16**	White octagonal stone tower, red top, white building; 46.	Reserve light range 8M.
15948 *M 7562*	-Mys Erzhikovicha, Ostrov Lisiy, S. extremity.	42° 45.3′ N 132° 54.1′ E	**L.Fl.W.** period 6s fl. 2s, ec. 4s	286 **87**	7	White diamond framework tower; 10.	Visible 242°-169°.
15952 *M 7563*	**-Mys Shvedova.**	42° 48.3′ N 132° 54.7′ E	**Oc.W.** period 7.5s lt. 4.5s, ec. 3s	143 **44**	**18**	White octagonal stone tower; 23.	Reserve light range 9M.
15956 *M 7567*	-Mys Astaf'yeva.	42° 48.6′ N 132° 54.4′ E	**L.Fl.G.** period 7.5s fl. 3s, ec. 4.5s	68 **21**	8	White octagonal concrete tower, black bands; 62.	Visible 049°-324°. Reserve light range 2M.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			RUSSIA				
15958 *M 7567-7*	-Bukhta Kozmina, Mys Krylova.	42° 42.8′ N 133° 00.1′ E	**Fl.W.R.G.** period 3s fl. 1s, ec. 2s	289 **88**	7	Red square metal framework tower, red and white panels; 66.	W.-327°-141°, R.-153°, G.-173°, R.-191°30′, W.-244°30′.
15960 *M 7564*	-Nakhodka Approach Range, front.	42° 50.4′ N 132° 56.3′ E	**Iso.R.** period 6s	36 **11**	11	White four-sided pyramidal tower, white stone building, black stripe; 43.	Visible 357°-003°. Shown 24 hours.
15964 *M 7564.1*	--Rear, 1574 meters 000° from front.	42° 51.2′ N 132° 56.3′ E	**F.R.**	121 **37**	10	White square stone tower, black stripe; 52.	Visible 357°-003°..
15965 *M 7568.5*	Ozero Vtoroye entrance, N. side.	42° 43.0′ N 133° 01.4′ E	**Fl.(2)R.** period 5s fl. 1s, ec. 1s fl. 1s, ec. 2s	20 **6**	2	Red round metal tower, white band, platform; 13.	
15965.1 *M 7568.4*	-S. side.	42° 43.0′ N 133° 01.4′ E	**Fl.(2)G.** period 5s fl. 1s, ec. 1s fl. 1s, ec. 2s	23 **7**	1	Green round metal tower, white stripe, platform; 16.	
15968 *M 7566*	--Harbor entrance Range, front.	42° 48.7′ N 132° 53.1′ E	**F.R.**	118 **36**	6	White octagonal stone tower, black stripe, neon rectangular daymark; 52.	Visible 257°54′-277°54′. Shown 24 hours.
15972 *M 7566.1*	---Rear, 130 meters 267°54′ from front.	42° 48.7′ N 132° 53.1′ E	**F.R.**	154 **47**	6	White octagonal tower, black stripes, neon rectangular daymark; 23.	Visible 257°54′-277°54′.
15992 *M 7563.4*	-Bukhta Chadaudzha, entrance Range, front.	42° 46.3′ N 132° 53.0′ E	**Iso.G.** period 3s	364 **111**	6	White square brickwork tower, black stripe; 20.	Visible 251°48′-286°48′.
15996 *M 7563.41*	--Rear, 347 meters 269°18′ from front.	42° 46.3′ N 132° 52.7′ E	**Iso.G.** period 3s	489 **149**	6	White square brickwork tower, black stripe; 20.	Visible 251°48′-286°48′.
16000 *M 7563.6*	--Pier, head.	42° 46.3′ N 132° 53.6′ E	**Iso.R.** period 3s	35 **11**	2	Red metal framework tower; 23.	
16004 *M 7558*	-Mys Likhacheva.	42° 44.1′ N 132° 51.0′ E	**Fl.(2)W.** period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	201 **61**	9	White octagonal stone tower; 16.	
16008 *M 7538*	Ostrov Trambetskogo.	42° 50.4′ N 132° 32.3′ E	**Fl.W.** period 3s fl. 0.5s, ec. 2.5s	66 **20**	9	White octagonal stone tower; 20.	**Radar reflector.**
16052 *M 7502*	**Mys Yelagina.**	42° 43.8′ N 132° 20.4′ E	**Fl.W.** period 6s fl. 1.5s, ec. 4.5s	371 **113**	**22**	White octagonal stone tower, red lantern, white building; 26.	Visible 264°-126°. Reserve light range 9M.
16053 *M 7503*	-Mys Stupenchatyy.	42° 46.8′ N 132° 20.8′ E	**Fl.W.** period 8s	89 **27**	7	White four-sided stone tower; 16.	Visible 089°-285°.
16054 *M 7504*	Mys Ogorodnyy.	42° 48.8′ N 132° 21.7′ E	**Fl.W.** period 5s fl. 1.5s, ec. 3.5s	144 **44**	9	Red metal four-sided pyramid, white cabin; 16.	
16056 *M 7528*	**Mys Sysoyeva.**	42° 50.6′ N 132° 19.1′ E	**Iso.W.** period 3s	164 **50**	**19**	Red octagonal stone tower, lantern; 36.	Visible 277°-159°.
16160 *M 7498*	Ostrova Verkhovskogo, SE. island.	42° 53.0′ N 131° 48.6′ E	**Fl.(3)W.** period 10s fl. 0.1s, ec. 1.1s fl. 0.1s, ec. 1.1s fl. 0.1s, ec. 7.5s	124 **38**	11	White octagonal stone tower; 23.	
	VLADIVOSTOK:						
16166 *M 7470*	**-Ostrov Skrypleva.**	43° 01.7′ N 131° 57.2′ E	**Fl.R.** period 15s fl. 1s, ec. 14s	177 **54**	**20**	White octagonal stone tower, structure, lantern; 39.	Visible 128°-030°. Reserve light range 6M.
16167 *M 7471*	-Mys Basargina.	43° 03.5′ N 131° 57.8′ E	**Oc.G.** period 7.5s lt. 4s, ec. 3.5s	92 **28**	10	White octagonal stone tower, red bands; 26.	Visible 193°-092°. Reserve light range 6M.
16169 *M 7472*	**-Proliv Bosfor Vostochnyy** Range,front.	43° 05.0′ N 131° 51.4′ E	**F.R.**	105 **32**	**15**	Four-sided tower, white building, lantern; 49.	Visible 289°30′-309°30′. Reserve light range 8M.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			RUSSIA				
16169.1 *M 7472.01*	--Middle, 110 meters 299°30′ from front.	43° 05.1′ N 131° 51.3′ E	**Oc.R.** period 3s	164 **50**	**15**	White octagonal stone tower, black stripe, four-sided base; 49.	Visible 289°30′-309°30′. Reserve light range 12M.
16169.2 *M 7472.02*	--Rear, 450 meters 299°30′ from front.	43° 05.2′ N 131° 51.0′ E	**F.R.**	226 **69**	**15**	White octagonal stone tower, black stripe, four-sided base; 49.	Visible 289°30′-309°30′. Reserve light range 12M.
16169.3 *M 7473*	-Mys Balka.	43° 01.8′ N 131° 54.9′ E	**L.Fl.R.G.** period 5s	69 **21**	R. 3 G. 2	White four-sided metal framework pyramid; 10.	R. 357°-162°30′, G.-357°. Shown Apr. 15 to Dec. 30.
16169.7 *M 7474*	-Bukhty Uliss Range, front.	43° 04.8′ N 131° 55.5′ E	**F.G.**	59 **18**	2	Two white trapezoidal daymarks, red stripe; 16.	Visible 048°24′-068°24′.
16169.8 *M 7474.01*	--Rear, 77 meters 058°24′ from front.	43° 04.8′ N 131° 55.6′ E	**Iso.G.** period 3s	108 **33**	2	Two white trapezoidal daymarks, red stripe; 16.	Visible 048°24′-068°24′.
16169.91 *M 7478*	-Mys Rosetta.	43° 05.2′ N 131° 51.0′ E	**Oc.G.** period 15s	217 **66**	5	White stone building, lantern; 13.	Visible 045°-207°.
16169.92 *M 7479*	-Tokarevskogo.	43° 04.4′ N 131° 50.6′ E	**L.Fl.W.R.** period 7.5s fl. 3s, ec. 4.5s	39 **12**	12	White round stone tower, structure, lantern; 39.	W. 237°-126°, R.-165°.
16170 *M 7480*	-Mys Pospyelovskiy, W. approach Range, front.	43° 03.7′ N 131° 53.4′ E	**Oc.R.** period 3s	26 **8**	10	Metal framework tower, platform, white diamond daymark, black stripe; 33.	Visible 092°-112°. Reserve light F.R. 7M.
16170.1 *M 7480.01*	--Rear, 192 meters 103°30′ from front.	43° 03.7′ N 131° 53.5′ E	**Oc.R.** period 3s	52 **16**	10	Metal framework tower, platform, white diamond daymark, black stripe; 39.	Visible 092°-112°. Reserve light F.R. 7M.
16170.18 *M 7482*	-Torpedo Boat Canal Entrance, W. side.	43° 03.7′ N 131° 50.7′ E	**Fl.G.** period 5s fl. 0.5s, ec. 4.5s	20 **6**	1	Green round metal tower, white band, platform; 16.	Visible 202°-214°. **Radar reflector.**
16170.25 *M 7440*	-Prednozhnoye Range, front.	43° 02.8′ N 131° 49.3′ E	**Oc.W.** period 3s	16 **5**	3	Metal framework tower, white trapezoidal daymark, black stripe; 16.	Visible 164°30′-171°.
16170.26 *M 7440.1*	--Rear, 220 meters 167°48′ from front.	43° 02.6′ N 131° 49.3′ E	**F.W.**	43 **13**	3	Metal framework tower, white trapezoidal daymark, black stripe; 20.	Visible 157°-178°.
	AMURSUKY ZALIV:						
16170.3 *M 7435.5*	-Mys Vasileva.	43° 00.2′ N 131° 45.5′ E	**Fl.W.** period 3s fl. 1s, ec. 2s	141 **43**	6	White octagonal stone tower; 16.	Visible 024°-278°. Shown Apr. 15 to Dec. 01.
16170.35 *M 7438*	-Ostrov Ushi.	43° 03.8′ N 131° 48.2′ E	**Fl.R.** period 2s fl. 0.5s, ec. 1.5s	43 **13**	3	Red metal framework pyramid; 10.	Shown Apr. 15 to Dec. 01.
16170.4 *M 7436*	**-Mys Firsova.**	43° 10.4′ N 131° 53.9′ E	**Iso.W.R.** period 3s	85 **26**	W. **15** R. 8	White four-sided metal pyramid, white concrete base; 23.	R. 002°-050°, W.-205°.
16172 *M 7434*	**Mys Bryusa.**	42° 52.9′ N 131° 28.1′ E	**Iso.W.R.G.** period 12s	217 **66**	W. **21** R. **15** G. 10	White octagonal stone tower, white dwelling; 33.	G. 099°-216°, W.-234°, R.-306°, W.-342°, G.-046°. Reserve light Iso.R. 3s 6M.
16188 *M 7430*	Mys Klerka.	42° 45.9′ N 131° 21.8′ E	**Fl.R.** period 4s fl. 1s, ec. 3s	246 **75**	4	White octagonal stone tower; 13.	Visible 185°-150°.
16192 *M 7428*	Ostrova Rimskogo-Korsakova.	42° 39.9′ N 131° 28.0′ E	**Fl.W.** period 3s fl. 1s, ec. 2s	636 **194**	9	Red metal framework tower; 43.	
16196 *M 7422*	**Mys Gamova.**	42° 33.2′ N 131° 13.1′ E	**Fl.(2)W.** period 15s fl. 0.3s, ec. 3.6s fl. 0.3s, ec. 10.8s	223 **68**	**22**	White octagonal stone tower, dwelling; 62.	Visible 197°-070°. Reserve light Fl.W. 3s 10M.
16198 *M 7420*	Russia, N. Korea Maritime Border Range, front.	42° 19.1′ N 130° 40.0′ E	**Oc.W.R.G.** period 4s lt. 3s, ec. 1s	128 **39**	W. **18** R. **15** G. 10	Metal framework tower, red rectangular daymark, white stripe; 125.	W. 230°-300°48′, G.-310°48′, W.-320°48′, R.-330°48′, W.-050°. Reserve light Oc.W. 4s 18M.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			RUSSIA				
16198.1 *M 7420.01*	-Rear, 2778 meters 315° 48′ from front.	42° 20.2′ N 130° 38.6′ E	**F.W.**	259 **79**	**19**	Metal framework tower, red rectangular daymark, white stripe; 115.	

Section 10

Korea

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			NORTH KOREA				
16200 *M 4570*	**Nan Do.**	42° 13.8′ N 130° 31.7′ E	**Fl.W.** period 5s	128 **39**	**17**	White square concrete tower; 36.	Visible 237°-193°. **Siren:** 1 bl. ev. 36s (bl. 7s, si. 29s).
16204 *M 4590*	Ogaram San, about 914 meters NNE. of Ogaram Dan.	42° 16.5′ N 130° 38.2′ E	**F.G.**	180 **55**	8	White metal tower, concrete base; 20.	**Horn.**
	SOSURA HANG:						
16208 *M 4582*	-E. breakwater, head.	42° 16.6′ N 130° 35.8′ E	**F.W.**	19 **6**	7	White metal column, concrete base; 16.	
16212 *M 4584*	-W. breakwater, head.	42° 16.5′ N 130° 35.7′ E	**F.R.**	19 **6**	6	Red metal column, concrete base; 16.	
	UNGGI MAN:						
16216 *M 4578*	-E. breakwater, head.	42° 19.9′ N 130° 24.3′ E	**F.G.**	33 **10**	4	Red metal column, concrete base; 16.	
16220 *M 4574*	-W. breakwater, head.	42° 20.0′ N 130° 24.0′ E	**F.R.**	20 **6**	6	White metal column, concrete base; 16.	
16224 *M 4576*	-Detached breakwater, W. head.	42° 19.9′ N 130° 24.1′ E	**F.R.**	21 **6**	8	Red metal column, concrete base; 16.	
16228 *M 4568*	Kwak Tan.	42° 15.0′ N 130° 24.1′ E	**Fl.W.** period 12s	200 **61**	13	White square concrete tower; 23.	Visible 198°-050°. **Horn.**
	NAJIN MAN:						
16232 *M 4558*	**-Toech'o Do.**	42° 09.0′ N 130° 16.6′ E	**Fl.(3)W.** period 25s	394 **120**	**27**	White square concrete tower; 43.	Visible 228°-142°. **Siren:** 1 bl. ev. 45s (bl. 5s, si. 40s).
16248 *M 4556*	-Oryong Am, NE. side of Injin Man.	42° 04.7′ N 130° 07.6′ E	**Fl.(2)W.** period 6s	60 **18**	12	Black round concrete tower; 56.	
16252 *M 4540*	**Komalsan Dan.**	41° 45.8′ N 129° 50.8′ E	**L.Fl.W.** period 6s	194 **59**	**20**	White hexagonal brick tower; 46.	Visible 222°-091°. **Siren:** 1 bl. ev. 45s (bl. 5s, si. 40s).
	CHONGJIN:						
16260 *M 4542*	-Dong Hang, breakwater, head.	41° 46.6′ N 129° 49.3′ E	**F.G.**	45 **14**	8	Red round concrete tower; 36.	
16262 *M 4543*	--SW. corner of W. pier.	41° 46.8′ N 129° 49.2′ E	**Oc.R.**				
16264 *M 4544*	--E. pier, head.	41° 46.7′ N 129° 49.7′ E	**F.R.**	23 **7**	2	Red metal column, concrete base; 16.	
16268 *M 4546*	-So Hang, breakwater, head.	41° 44.9′ N 129° 46.1′ E	**F.G.**	39 **12**	5	Green tower; 30.	
16269 *M 4547*	--Root.	41° 45.4′ N 129° 46.1′ E	**F.R.**		2		
16272 *M 4534*	**Orang Dan.**	41° 22.9′ N 129° 48.3′ E	**Iso.W.** period 4s	138 **42**	**15**	White round brick tower; 26.	Visible 125°-005°. **Siren.**

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			NORTH KOREA				
16276 *M 4536*	Odaejin Hang, N. breakwater, head.	41° 23.2′ N 129° 46.8′ E	**F.R.**	23 **7**	8	White round metal tower; 20.	
16276.5 *M 4533*	Koaedan.	41° 19.1′ N 129° 46.7′ E	**Oc.W.** period 13s		10	Beacon.	
16277 *M 4531*	Unmandae Dan.	40° 56.6′ N 129° 45.8′ E	**Fl.W.** period 14s	390 **119**	10		**Horn.**
16278 *M 4532*	**Ryanghwa.**	41° 12.3′ N 129° 43.9′ E	**Fl.W.** period 3s	157 **48**	**18**		**Horn.**
16280 *M 4530*	**Musu Dan.**	40° 50.1′ N 129° 42.9′ E	**Fl.(2)W.** period 15s	266 **81**	**23**	White round concrete tower; 30.	Visible 206°-092°. **Siren.**
	KIMCH'AEK:						
16284 *M 4516*	**-Songjin Peninsula.**	40° 39.6′ N 129° 12.7′ E	**Iso.W.** period 6s	171 **52**	**20**	White octagonal concrete tower; 26.	Visible 161°-023°. **Horn.**
16288 *M 4522*	-S. breakwater, head.	40° 39.7′ N 129° 12.4′ E	**F.R.**	26 **8**	5	White metal column, concrete base; 16.	Visible 025°-295°.
16292 *M 4524*	-N. breakwater, head.	40° 39.7′ N 129° 12.4′ E	**F.G.**	16 **5**	4	Red concrete tower; 16.	
16296 *M 4520*	-Lumber storage, S. breakwater, head.	40° 40.2′ N 129° 12.5′ E	**F.G.**	22 **7**	5	White metal column; 13.	
16300 *M 4526*	-Fishing harbor, S. of peninsula, breakwater, head.	40° 39.4′ N 129° 12.2′ E	**F.R.**	26 **8**	5	White concrete tower; 16.	
16301 *M 4514*	Yongdae Gap.	40° 28.5′ N 129° 03.7′ E	**L.Fl.W.** period 9s	200 **61**	12		**Horn.**
16302 *M 4514.4*	-Breakwater.	40° 28.7′ N 129° 03.5′ E	**F.R.**	20 **6**	2		
16303 *M 4513*	Sabvjin, breakwater, head.	40° 24.5′ N 128° 55.3′ E	**F.R.**	43 **13**	1		
16304 *M 4512*	Ch'aho Hang, E. side of bay, peninsula, head.	40° 12.1′ N 128° 39.6′ E	**F.W.**	77 **23**	7	White triangular metal tower, metal column; 66.	Fishing light. **Horn.**
16306 *M 4510.4*	Song Do Gap.	40° 01.9′ N 128° 19.7′ E	**L.Fl.W.** period 7s	194 **59**	12		
16306.1 *M 4511.4*	Shinchang Hang.	40° 08.0′ N 128° 28.4′ E	**F.G.**	20 **6**	2		
16307 *M 4510.6*	Tonghodong.	40° 04.3′ N 128° 16.3′ E	**F.R.**	10 **3**	1		
16308 *M 4510*	**Mayang Do (Bayo To).**	39° 59.7′ N 128° 13.5′ E	**Fl.(4)W.** period 22s	223 **68**	**16**	White octagonal concrete tower; 27.	Visible 196°-058°, obscured by Song Do Gap when bearing less than 236°.
16308.5 *M 4506.5*	Ansong Gap.	39° 53.4′ N 127° 52.6′ E	**L.Fl.W.** period 7s	285 **87**	13	White hexagonal concrete tower; 26.	Visible 200°-160°.
16309 *M 4508*	Songnyong Man.	40° 01.5′ N 127° 59.5′ E	**F.R.**	49 **15**	8		**Horn.**
16310 *M 4507*	Chuk Do.	39° 59.0′ N 127° 56.9′ E	**F.R.**	49 **15**	8	Metal framework tower.	**Horn.**
16312 *M 4506*	**Sohojin.**	39° 48.4′ N 127° 39.8′ E	**Fl.(2)W.** period 30s	154 **47**	**18**	White round concrete tower; 23.	Visible 198°-133°. **Siren.**
16316 *M 4492*	Hungnam, breakwater.	39° 49.4′ N 127° 37.9′ E	**F.R.**	39 **12**	2		
16322 *M 4495*	-Breakwater.	39° 49.2′ N 127° 39.0′ E	**F.R.**	26 **8**	2	Metal post; 10.	F.G. 2M marks S. breakwater head 80 meters SE.

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			NORTH KOREA				
16323 *M 4490*	Kwangsunggotchi.	39° 31.8′ N 127° 31.3′ E	**L.Fl.W.** period 9s	151 **46**	8		**Horn.**
	YONGHUNG MAN:						
16324 *M 4488*	-Sokkun Som.	39° 17.2′ N 127° 33.9′ E	**Fl.W.** period 7s	82 **25**	9	Red round concrete tower, black bands; 56.	**Horn.**
16325 *M 4487*	-Yubundo.	39° 17.5′ N 127° 31.6′ E	**L.Fl.W.** period 6s	121 **37**	4	Beacon.	
16326 *M 4485*	Yongjin.	39° 17.9′ N 127° 24.2′ E	**L.Fl.W.** period 12s	213 **65**	8	White square framework tower.	Visible 130°-086°. **Horn.**
16328 *M 4474*	Worhyanam.	39° 15.0′ N 127° 34.4′ E	**Fl.W.** period 5.5s	56 **17**	5		
16332 *M 4472*	**Yo Do.**	39° 13.7′ N 127° 37.9′ E	**Oc.W.** period 20s	220 **67**	**20**	White octagonal concrete tower; 26.	
16340 *M 4480*	Wonsan Hang, Changdok To.	39° 10.5′ N 127° 26.5′ E	**Fl.W.** period 5s	82 **25**	5	16.	**Horn.**
16344 *M 4484.4*	-Dolphin.	39° 09.5′ N 127° 27.7′ E	**F.R.**				
16348 *M 4484*	-Gensanri fishing harbor, breakwater, head.	39° 09.5′ N 127° 26.9′ E	**F.G.**	25 **8**	2	Red metal column, concrete base; 20.	
16350	Apryongdan.	39° 07.9′ N 127° 44.3′ E	**Fl.W.** period 10s		8		
16352 *M 4468*	**Ch'ongsok Tan.**	38° 57.9′ N 127° 54.6′ E	**Fl.(2)W.** period 30s	128 **39**	**18**	White metal tower; 20.	Visible 158°-010°.
16356 *M 4466*	Kojo P'o, breakwater, head.	38° 57.8′ N 127° 53.3′ E	**F.R.**	36 **11**	3	White square metal tower; 26.	
16358 *M 4465*	**Sol Som.**	38° 51.4′ N 128° 03.2′ E	**L.Fl.W.** period 25s	216 **66**	**16**	Beacon.	**Horn.**
16359 *M 4462*	**Changadaedan.**	38° 45.2′ N 128° 15.9′ E	**Fl.(2)W.** period 18s	246 **75**	**18**	White octagonal concrete tower; 46.	Visible 158°-203°.
16360 *M 4464*	**Changjon Man.**	38° 44.7′ N 128° 12.2′ E	**Iso.W.** period 7s	269 **82**	**18**	White square metal tower, concrete base; 13.	
16362 *M 4464.5*	Changjon Hang, breakwater.	38° 44.1′ N 128° 11.8′ E	**F.G.**	16 **5**	3	White round concrete tower; 10.	
16364 *M 4461*	**Suwon Dan.**	38° 41.2′ N 128° 21.4′ E	**Fl.(2)W.** period 15s 2 fl. 3s, ec. 12s	134 **41**	**17**	White octagonal concrete tower; 56.	**Siren:** 1 bl. ev. 60s (bl. 5s, si. 55s).

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			SOUTH KOREA				
16365 *M 4460*	**Chojin Dan** Range, front.	38° 33.2′ N 128° 24.5′ E	**F.W.**	203 **62**	**24**	White square concrete tower; 115.	**Horn:** 4 bl. ev. 60s.
16365.1 *M 4460.1*	-Rear, 270° from front.	38° 33.2′ N 128° 23.8′ E	**F.W.**	377 **115**	**24**	White square concrete tower; 66.	
16366	Chojin Dan, RACON.	38° 33.0′ N 128° 24.5′ E	**Q(– – • –)** period 60s		10		Azimuth coverage 270°-315°. (3cm).
16369 *M 4459.9*	**Taejin.**	38° 30.2′ N 128° 25.7′ E	**Fl.W.** period 12s	201 **61**	**20**	White octagonal concrete tower; 102.	**AIS** (MMSI No 994403802). **Horn:** 1 bl. ev. 20s (bl. 5s, si. 15s). Occasional.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			SOUTH KOREA				
16374 *M 4459.75*	-N. breakwater, head.	38° 29.8′ N 128° 25.9′ E	**Fl.R.** period 5s	39 **12**	7	Red round concrete tower; 23.	
16376 *M 4459.7*	-S. breakwater, head.	38° 29.9′ N 128° 25.8′ E	**Fl.G.** period 5s	46 **14**	5	White round concrete tower; 36.	
16376.5 *M 4459.45*	Kajin Hang, breakwater.	38° 22.0′ N 128° 30.8′ E	**Fl.R.** period 5s	52 **16**	8	Red round concrete tower; 33.	
16376.7 *M 4458.7*	Pongpo Hang, breakwater.	38° 15.0′ N 128° 34.2′ E	**Fl.R.** period 5s	49 **15**	8	Red round concrete tower; 33.	
16377 *M 4459.43*	Gonghyeonjin.	38° 21.3′ N 128° 30.8′ E	**Fl.R.** period 4s	49 **15**	6	Red round concrete tower; 33.	
16378 *M 4459.3*	**Oho Ri.**	38° 19.6′ N 128° 31.8′ E	**Fl.W.** period 5s	89 **27**	**21**	White round concrete tower; 33.	
16379 *M 4459.4*	Oho Hang, breakwater.	38° 19.3′ N 128° 32.0′ E	**Fl.R.** period 5s	59 **18**	9	Red round concrete tower; 33.	
16380 *M 4459*	Ayajin-ni.	38° 16.5′ N 128° 33.3′ E	**Fl.W.** period 6s	98 **30**	7	White round concrete tower; 49.	Visible 175°-327°.
16384 *M 4459.16*	-N. breakwater.	38° 16.2′ N 128° 33.7′ E	**Fl.R.** period 5s	56 **17**	9	Red round concrete tower; 33.	
16385 *M 4459.15*	-S. breakwater.	38° 16.2′ N 128° 33.6′ E	**Fl.G.** period 5s	49 **15**	9	White round concrete tower; 33.	
16386 *M 4459.2*	Munam Hang, N. breakwater.	38° 18.1′ N 128° 33.0′ E	**Fl.R.** period 4s	36 **11**	5	Red metal tower; 20.	
16386.1 *M 4459.25*	-S. breakwater.	38° 17.7′ N 128° 33.1′ E	**Fl.R.** period 6s	33 **10**	5	Red metal tower; 20.	
16387 *M 4459.65*	Chodo Hang, breakwater.	38° 29.1′ N 128° 26.3′ E	**Fl.R.** period 4s	33 **10**	5	Red metal tower; 20.	
16388 *M 4459.5*	**Kojin-ni.**	38° 27.0′ N 128° 27.9′ E	**Al.Fl.W.R.** period 32s	295 **90**	W. **25** R. **22**	White round concrete tower; 43.	Visible 160°-333°. **AIS** (MMSI No 994403806). **Horn:** 1 bl. ev. 30s (bl. 5s, si. 25s).
16392 *M 4459.6*	-E. breakwater, S. head.	38° 26.6′ N 128° 27.6′ E	**Fl.R.** period 4s	52 **16**	6	Red octagonal concrete tower; 39.	
16396 *M 4459.54*	-W. breakwater, head.	38° 26.6′ N 128° 27.5′ E	**Fl.G.** period 5s	36 **11**	8	White round concrete structure; 30.	
16396.5 *M 4458.63*	Sajin Hang, breakwater.	38° 13.5′ N 128° 35.3′ E	**Fl.R.** period 5s	33 **10**	5	Red four-sided metal tower; 20.	
16397 *M 4458.64*	-SW.	38° 13.5′ N 128° 35.4′ E	**Fl.G.** period 5s	39 **12**	7	White round concrete tower; 33.	
16404 *M 4458*	**Sokch'o.**	38° 12.8′ N 128° 36.0′ E	**Fl.(4)W.** period 45s	217 **66**	**19**	White round concrete tower; 92.	Visible 160°-005°. **AIS** (MMSI No 994403801). **Siren:** 1 bl. ev. 45s (bl. 5s, si. 40s).
16406 *M 4458.1*	-E.	38° 12.3′ N 128° 36.7′ E	**Q.W.**	52 **16**	7	N. CARDINAL BY, beacon, topmark; 66.	**AIS** (MMSI No 994403817).
16408 *M 4458.3*	Sokch'o Hang, N. breakwater.	38° 12.2′ N 128° 36.2′ E	**Fl.R.** period 4s	59 **18**	12	Red metal pipe; 36.	
16409.5 *M 4458.4*	-S. breakwater.	38° 12.1′ N 128° 35.9′ E	**Fl.(2)G.** period 6s	33 **10**	8	White round metal tower.	
16410 *M 4458.45*	-W. breakwater.	38° 12.1′ N 128° 35.8′ E	**Fl.(2)R.** period 6s	30 **9**	8	Red round steel tower.	
16412 *M 4458.6*	-NW. breakwater.	38° 12.4′ N 128° 36.0′ E	**Fl.G.** period 4s	36 **11**	10	White round concrete tower; 26.	F.W. 12m spotlight, visible 093°-099°.
16414 *M 4458.2*	Jodo (Cho-do).	38° 11.9′ N 128° 36.8′ E	**Fl.W.** period 6s	118 **36**	12	White round concrete tower; 49.	

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			SOUTH KOREA				
16416 *M 4458.15*	-E.	38° 12.0′ N 128° 37.4′ E	**Q.(6)+L.Fl.W.** period 15s	52 **16**	8	S. CARDINAL YB, beacon, topmark; 72.	**AIS** (MMSI No 994403812).
	-RACON		**X(– • • –)**		10		(3 & 10cm).
16418 *M 4458.18*	-SW.	38° 11.6′ N 128° 36.5′ E	**Fl.(2)G.** period 6s	46 **14**	8	Green round concrete tower, green square daymark; 82.	**AIS** (MMSI No 994403815).
16420 *M 4457*	Taep'o Hang.	38° 10.3′ N 128° 36.6′ E	**Fl.R.** period 4s	56 **17**	8	Red octagonal concrete tower; 33.	
16421 *M 4456.9*	Mulchi Hang, E. breakwater.	38° 09.2′ N 128° 36.7′ E	**Fl.R.** period 5s	46 **14**	7	Red round concrete tower; 36.	
16422 *M 4456.93*	-W. breakwater.	38° 09.2′ N 128° 36.7′ E	**Fl.G.** period 5s	49 **15**	7	White round concrete tower; 36.	
16423 *M 4456.85*	Hujin Hang.	38° 07.9′ N 128° 37.5′ E	**Fl.R.** period 4s	33 **10**	5	Red square metal tower; 20.	
16423.1 *M 4456.8*	Jeonjin Hang.	38° 07.4′ N 128° 38.1′ E	**Fl.R.** period 5s	52 **16**	9	Red octagonal concrete tower; 36.	
16424 *M 4456.5*	Susan Dan.	38° 04.9′ N 128° 40.5′ E	**Fl.W.** period 5s	240 **73**	8	White round concrete tower; 52.	**AIS** (MMSI No 994403811).
16428 *M 4456*	Kisamun Dan.	38° 01.3′ N 128° 44.1′ E	**Fl.W.** period 6s	106 **32**	8	White round concrete tower; 33.	
16429 *M 4456.2*	Gisamun Hang.	38° 00.4′ N 128° 44.0′ E	**Fl.R.** period 6s	52 **16**	5	Red round concrete tower; 36.	
16430 *M 4455.6*	Dongsan Hang.	37° 58.7′ N 128° 45.8′ E	**Fl.R.** period 4s	36 **11**	5	Red four-sided metal tower; 23.	
16431 *M 4455.5*	Ingu Hang, breakwater.	37° 58.2′ N 128° 45.9′ E	**Fl.R.** period 5s	33 **10**	7	Red four-sided metal tower; 20.	
16432 *M 4455*	Namae Hang.	37° 56.5′ N 128° 47.4′ E	**Fl.R.** period 4s	62 **19**	7	Red round concrete tower; 39.	
16433 *M 4455.4*	-Namae Hang, S. breakwater.	37° 56.6′ N 128° 47.3′ E	**Fl.G.** period 4s	36 **11**	6	White round concrete tower; 26.	
16435.1 *M 4449.9*	Uamjin Hang, breakwater.	37° 54.2′ N 128° 49.9′ E	**Fl.R.** period 5s	49 **15**	9	Red round concrete tower; 33.	
	CHUMUNJIN HANG:						
16436 *M 4450*	**-Chumunjin Dan.**	37° 53.9′ N 128° 50.0′ E	**Fl.W.** period 15s	131 **40**	**20**	White round brick tower; 33.	Visible 148°-025°. **AIS** (MMSI No 994403803). **Horn:** 1 bl. ev. 60s (bl. 5s, si. 55s). **DGPS Station.**
16440 *M 4452*	-E. breakwater, head.	37° 53.2′ N 128° 50.1′ E	**Fl.R.** period 4s	59 **18**	8	Red round concrete tower; 36.	**AIS** (MMSI No 994403810).
16444 *M 4452.5*	--W. breakwater, head.	37° 53.2′ N 128° 49.9′ E	**Fl.G.** period 4s	46 **14**	9	White round concrete tower; 33.	
16448 *M 4453*	-No 2 jetty, head.	37° 53.1′ N 128° 50.0′ E	**Fl.G.** period 6s	40 **12**	6	White round concrete tower; 33.	
16449 *M 4449.3*	-Breakwater, head.	37° 38.7′ N 129° 03.2′ E	**Fl.R.** period 5s	52 **16**	6	Red round concrete tower; 33.	
16450 *M 4449.35*	-Groin, head.	37° 38.8′ N 129° 03.1′ E	**Fl.G.** period 5s	39 **12**	6	White round concrete tower; 33.	
16451 *M 4449.8*	Sach'onjin Hang, N. breakwater.	37° 50.1′ N 128° 52.8′ E	**Fl.R.** period 5s	49 **15**	8	Red round concrete tower; 33.	
16451.5 *M 4449.85*	-S. breakwater.	37° 49.9′ N 128° 52.7′ E	**Fl.G.** period 5s	39 **12**	6	White round concrete tower; 33.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			SOUTH KOREA				
16451.6 *M 4449.7*	Anmok Hang, N. breakwater.	37° 46.3′ N 128° 57.4′ E	**Fl.R.** period 5s	59 **18**	8	Red round concrete tower; 33.	
16451.65 *M 4449.75*	-S. breakwater, head.	37° 46.3′ N 128° 57.3′ E	**Fl.G.** period 5s	59 **18**	6	White round concrete tower; 33.	
16451.7 *M 4449.6*	Anin-dan.	37° 44.2′ N 128° 59.5′ E	**Fl.R.** period 4s	49 **15**	9	Red round concrete tower; 33.	
16451.8 *M 4449.65*	-Groin.	37° 44.1′ N 128° 59.4′ E	**Fl.G.** period 4s	49 **15**	9	White round concrete tower; 33.	
16452 *M 4449.5*	**Chongdongjin Dan.**	37° 40.5′ N 129° 03.3′ E	**Fl.W.** period 8s	292 **89**	**22**	White round concrete tower; 33.	**AIS** (MMSI No 994403804).
16453 *M 4449.4*	-Simgok Hang, breakwater.	37° 39.9′ N 129° 03.3′ E	**Fl.R.** period 4s	36 **11**	8	Red four-sided metal tower; 20.	
16454 *M 4449.1*	Okgye Hang, N. breakwater.	37° 37.4′ N 129° 03.8′ E	**Fl.R.** period 4s	49 **15**	7	Red round concrete tower; 33.	**Horn:** 1 bl. ev. 55s (bl. 5s, si. 50s).
16454.1 *M 4449.2*	-S. breakwater.	37° 37.4′ N 129° 03.6′ E	**Fl.G.** period 4s	49 **15**	7	White round concrete tower; 33.	
16454.2 *M 4449.25*	-Sea berth.	37° 37.2′ N 129° 03.7′ E	**Fl.(4)Y.** period 8s	21 **6**	6	Yellow round fiberglass tower; 13.	
16455 *M 4449.05*	Hanjindan, Daejindeungdae, N. breakwater.	37° 34.9′ N 129° 06.9′ E	**Fl.(2)R.** period 6s	30 **9**	8	Red round concrete tower; 20.	
16455.1 *M 4449.06*	--S. breakwater.	37° 34.9′ N 129° 06.8′ E	**Fl.(2)G.** period 6s	26 **8**	8	White round concrete tower; 20.	
16456 *M 4449*	-Kanshin Tan.	37° 34.5′ N 129° 07.0′ E	**Fl.W.** period 5s	59 **18**	10	White round concrete tower; 33.	Visible 154°-344°.
16460 *M 4447.6*	Eodal-dong.	37° 34.0′ N 129° 07.4′ E	**Fl.R.** period 5s	46 **14**	8	Red concrete tower; 66.	**AIS** (MMSI No 994403816).
16463 *M 4447.5*	Eodal, N. breakwater.	37° 33.6′ N 129° 07.3′ E	**Fl.R.** period 6s	30 **9**	8	Red round concrete tower; 20.	
16463.5 *M 4447.51*	-S. breakwater.	37° 33.6′ N 129° 07.3′ E	**Fl.G.** period 6s	30 **9**	8	White round concrete tower; 20.	
16464 *M 4447*	**Mukho Hang.**	37° 33.3′ N 129° 07.1′ E	**Fl.W.** period 10s	299 **91**	**26**	White round concrete tower; 69.	Visible 174°-328°. **AIS** (MMSI No 994403800). **Horn:** 1 bl. ev. 55s (bl. 5s, si. 50s).
16466 *M 4448*	-W. breakwater, head.	37° 32.6′ N 129° 06.9′ E	**Fl.G.** period 6s	49 **15**	8	White round concrete tower; 36.	
16467 *M 4448.4*	-E. breakwater, head.	37° 32.4′ N 129° 07.2′ E	**Fl.R.** period 4s	59 **18**	**18**	Red square concrete tower; 36.	**AIS** (MMSI No 994403809).
16469 *M 4448.5*	-S. groin.	37° 32.4′ N 129° 07.0′ E	**Fl.G.** period 4s	46 **14**	9	White round concrete tower; 33.	F.W. 14m spotlight, visible 045°-051°.
16478 *M 4446.8*	Tonghae Hang, wharf.	37° 30.0′ N 129° 08.2′ E	**Fl.(2)G.** period 5s	30 **9**	8	White fiberglass pillar; 20.	
16480 *M 4446.6*	Bugpyeong Hang, N. breakwater, head.	37° 29.8′ N 129° 09.0′ E	**Fl.(2)R.** period 5s	56 **17**	9	Red round concrete tower; 49.	F.W. 17m spotlight, visible 010°-050°.
	RACON		**B(– • • •)**		10		(3 & 10cm).
16484 *M 4446.5*	-S. breakwater, head.	37° 29.8′ N 129° 08.7′ E	**Fl.G.** period 4s	52 **16**	9	White round concrete tower; 36.	**AIS** (MMSI No 994403808).
			F.W.				Visible 203°-225°. 65m S. of main light.
16485	-S. breakwater.	37° 29.8′ N 129° 08.7′ E	**F.W.**	52 **16**			Visible 023°-045°.
16486 *M 4446.7*	Yugong Seaberth.	37° 29.8′ N 129° 08.6′ E	**Fl.(4)Y.** period 8s	23 **7**	7	Yellow fiberglass pillar; 13.	Private light.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			SOUTH KOREA				
16486.1 *M 4446.65*	Donghae Hang, C.	37° 29.6′ N 129° 08.6′ E	**F.W.**	43 **13**	7		F.G. 13m 7M and F.R. 13m 7M mark width of navigable span.
16487 *M 4437.2*	**Samchok Hang.**	37° 26.3′ N 129° 11.4′ E	**Dir.W.R.G.**	105 **32**	W. **21** R. **17** G. **17**	White metal tower, 102.	F.R. 318°48′-320°24′, F.W.-322°, F.G.-323°36′.
16488 *M 4436*	-S. breakwater, head.	37° 25.9′ N 129° 11.6′ E	**Fl.G.** period 4s	46 **14**	8	White round concrete tower; 33.	F.W. 14m spotlight, visible 122°-162°.
16492 *M 4437*	-N. breakwater, head.	37° 25.9′ N 129° 11.8′ E	**Fl.R.** period 4s	52 **16**	9	Red round concrete tower; 33.	
16496 *M 4435*	Pi Mal.	37° 22.8′ N 129° 15.4′ E	**Fl.W.** period 5s	249 **76**	10	White round concrete tower; 49.	**AIS** (MMSI No 994403805).
16502 *M 4434.3*	-Groin.	37° 17.3′ N 129° 18.9′ E	**Fl.R.** period 5s	36 **11**	6	Red round concrete tower; 33.	
16504 *M 4434.2*	-Breakwater, head.	37° 17.4′ N 129° 18.9′ E	**Fl.G.** period 5s	56 **17**	6	White round steel tower; 33.	
16504.5 *M 4434.5*	Chogok Hang.	37° 18.7′ N 129° 17.5′ E	**Fl.G.** period 5s	39 **12**	8	White quadrangular metal tower; 20.	
16505 *M 4434.75*	Toksan Hang, N. breakwater.	37° 22.5′ N 129° 15.3′ E	**Fl.R.** period 5s	52 **16**	6	Red round concrete tower; 33.	
16506 *M 4434.7*	-S. breakwater.	37° 22.5′ N 129° 15.2′ E	**Fl.G.** period 5s	46 **14**	6	White round concrete tower; 36.	
16508 *M 4433.7*	**Imunae Hang.**	37° 14.1′ N 129° 21.3′ E	**Fl.W.** period 8s	197 **60**	**22**	White round concrete tower; 33.	
16516 *M 4433.8*	-N. breakwater, head.	37° 13.5′ N 129° 20.6′ E	**Fl.G.** period 6s	43 **13**	8	White round concrete tower; 33.	
16518 *M 4433.9*	--Breakwater, head.	37° 13.5′ N 129° 20.7′ E	**Fl.R.** period 4s	52 **16**	6	Red round concrete tower; 33.	**AIS** (MMSI No 994403807).
	--RACON		**G(– – •)**		10		(3 & 10cm).
	ULLUNG DO:						
16520 *M 4446.2*	**-Hyongnangap.**	37° 29.2′ N 130° 55.2′ E	**Fl.W.** period 14s	381 **116**	**26**	White round concrete tower; 43.	Visible 183°-040°. **AIS** (MMSI No 994403582). **Horn:** 1 bl. ev. 60s (bl. 5s, si. 55s).
16524 *M 4445.7*	--Jeodong Hang, N. breakwater, head.	37° 29.9′ N 130° 54.9′ E	**Fl.R.** period 5s	52 **16**	6	Red round concrete tower; 26.	
16528 *M 4445.8*	---S. breakwater, head.	37° 29.8′ N 130° 54.8′ E	**Fl.G.** period 5s	52 **16**	5	White round concrete tower; 26.	
16536 *M 4443*	-Ch'onbu Hang, breakwater, head.	37° 32.5′ N 130° 52.3′ E	**Fl.G.** period 4s	29 **9**	5	White round concrete column; 26.	
16541 *M 4446.4*	-Ssangjongcho.	37° 33.4′ N 130° 56.4′ E	**Fl.(2)W.** period 5s	56 **17**	8	ISOLATED DANGER BRB, beacon, topmark; 75.	**AIS** (MMSI No 994403583).
	-RACON		**C(– • – •)**		10		(3 & 10cm).
16542 *M 4443.5*	-N. breakwater.	37° 31.8′ N 130° 49.7′ E	**Fl.R.** period 5s	56 **17**	5	Red round concrete column; 33.	
16544 *M 4445*	**-Kanryong Mal.**	37° 27.2′ N 130° 52.5′ E	**Fl.W.** period 5s	69 **21**	**19**	White octagonal concrete tower; 49.	Visible 270°-110°. **AIS** (MMSI No 994403581).
16548 *M 4440*	**Dokto.**	37° 14.4′ N 131° 52.2′ E	**Fl.W.** period 10s	341 **104**	**25**	White round concrete tower; 49.	Visible 140°-117°. **Radar reflector.**
	RACON		**K(– • –)**		10		(3 & 10cm).
16551 *M 4433.5*	Hosan Hang.	37° 10.5′ N 129° 21.1′ E	**Fl.R.** period 5s	46 **14**	8	Red round tower; 33.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			SOUTH KOREA				
16551.1 *M 4433.6*	-Hosan groin.	37° 10.5′ N 129° 21.0′ E	**Fl.G.** period 5s	46 **14**	8	White round tower; 33.	
16552 *M 4432*	**Chukpyon Dong.**	37° 03.5′ N 129° 25.7′ E	**Fl.W.** period 20s	161 **49**	**20**	White octagonal concrete tower; 52.	Visible 162°-352°. **Horn:** 1 bl. ev. 50s. (bl. 5s, si. 45s).
16556 *M 4432.6*	-E. breakwater, head.	37° 03.0′ N 129° 25.4′ E	**Fl.R.** period 4s	33 **10**	5	Red round concrete tower; 27.	
16560 *M 4433*	-W. breakwater.	37° 03.1′ N 129° 25.3′ E	**Fl.G.** period 4s	36 **11**	5	White round concrete tower; 26.	
16564 *M 4431.5*	**Jinmimal.**	36° 53.6′ N 129° 25.1′ E	**Fl.W.** period 6s	190 **58**	**19**	White round concrete tower; 39.	Visible 184°-340°. **AIS** (MMSI No 994403571).
16565 *M 4431.45*	Osan Hang, N. breakwater, head.	36° 53.3′ N 129° 25.3′ E	**Fl.R.** period 4s	49 **15**	6	Red round metal tower; 26.	
16566 *M 4431.2*	Sadong, N. breakwater.	36° 49.4′ N 129° 27.1′ E	**Fl.R.** period 5s	56 **17**	5	Red round concrete column; 33.	
16566.2 *M 4431.4*	-S. breakwater.	36° 49.4′ N 129° 27.1′ E	**Fl.G.** period 5s	49 **15**	5	White round concrete column; 33.	
16568 *M 4431*	**Hwamo Mal.**	36° 46.0′ N 129° 28.6′ E	**Fl.W.** period 7s	157 **48**	**19**	White round concrete tower; 33.	
16569 *M 4430.5*	Gusan Hang, N. breakwater.	36° 45.4′ N 129° 28.5′ E	**Fl.R.** period 5s	49 **15**	5	Red round concrete tower; 26.	
16569.1 *M 4430.8*	-S. breakwater.	36° 45.4′ N 129° 28.4′ E	**Fl.G.** period 5s	52 **16**	6	White round concrete tower; 33.	
16569.5 *M 4430.85*	-SW.	36° 45.3′ N 129° 28.3′ E	**Q.(6)+L.Fl.W.** period 15s	30 **9**	8	S. CARDINAL YB, tower, topmark; 20.	
16569.7 *M 4430.3*	Jiksan Hang, S. breakwater.	36° 43.4′ N 129° 28.5′ E	**Fl.G.** period 4s	46 **14**	5	White round metal tower; 33.	
16569.9 *M 4430.31*	-E. breakwater.	36° 43.4′ N 129° 28.5′ E	**Fl.R.** period 4s	46 **14**	5	Red round metal tower; 33.	
16571 *M 4430.2*	Wangdolcho.	36° 43.1′ N 129° 43.9′ E	**Fl.(2)W.** period 5s	52 **16**	10	ISOLATED DANGER BRB, tower, topmark; 98.	
	RACON		**Y(– • – –)**		10		(3 & 10cm).
	HUP'O HANG:						
16572 *M 4426*	**-Hup'o.**	36° 40.7′ N 129° 27.7′ E	**Fl.W.** period 10s	210 **64**	**26**	White octagonal concrete tower; 36.	Visible 210°-014°. **Horn.**
16574 *M 4427*	-Hup'o Chedong.	36° 41.2′ N 129° 28.2′ E	**Fl.R.** period 5s	49 **15**	5	Red round concrete tower; 33.	
16576 *M 4430.04*	-E. breakwater, head.	36° 40.3′ N 129° 27.3′ E	**Fl.R.** period 4s	52 **16**	8	Red round metal tower; 33.	
16580 *M 4430*	-W. breakwater, head.	36° 40.5′ N 129° 27.3′ E	**Fl.G.** period 4s	43 **13**	5	White round concrete tower; 33.	
16581 *M 4428.1*	Baekseok Hang, S. breakwater.	36° 37.4′ N 129° 24.8′ E	**Fl.G.** period 5s	43 **13**	6	White round concrete tower; 33.	
16584 *M 4424*	**Ch'uksan Hang.**	36° 30.4′ N 129° 27.1′ E	**Fl.W.** period 5s	335 **102**	**19**	White octagonal concrete tower; 75.	**AIS** (MMSI No 994403570).
16588 *M 4420*	-S. breakwater, head.	36° 30.6′ N 129° 27.0′ E	**Fl.G.** period 4s	33 **10**	5	White round concrete tower; 26.	
16592 *M 4421*	-N. breakwater, head.	36° 30.6′ N 129° 27.2′ E	**Fl.R.** period 5s	26 **8**	8	Red round metal tower; 26.	
16594 *M 4420.3*	-E. breakwater, head.	36° 30.6′ N 129° 27.1′ E	**Fl.G.** period 5s	49 **15**	6	White octagonal concrete tower; 26.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			SOUTH KOREA				
16595 *M 4419*	Gyeonjeon Hang, E. breakwater.	36° 28.9′ N 129° 26.1′ E	**Fl.R.** period 4s	49 **15**	6	Red round concrete tower; 33.	
16596 *M 4418*	**Changp'o Mal.**	36° 25.5′ N 129° 26.0′ E	**Fl.W.** period 6s	200 **61**	**23**	White round concrete tower; 39.	Visible 197°-010°.
16596.5 *M 4417*	Changp'o Mal, breakwater.	36° 24.3′ N 129° 25.6′ E	**Fl.R.** period 5s	43 **13**	6	Red round metal tower; 23.	
16597 *M 4424.5*	Taejin Hang, N. breakwater.	36° 33.5′ N 129° 26.2′ E	**Fl.R.** period 5s	49 **15**	6	Red round concrete tower; 26.	
16598 *M 4424.6*	-S. breakwater.	36° 33.5′ N 129° 26.1′ E	**Fl.G.** period 5s	43 **13**	6	White round concrete tower; 33.	
	GANGGU HANG:						
16600 *M 4415*	-E. breakwater.	36° 21.4′ N 129° 23.6′ E	**Fl.R.** period 5s	56 **17**	8	Red metal pipe; 36.	
16604 *M 4414*	-W. breakwater.	36° 21.4′ N 129° 23.4′ E	**Fl.G.** period 5s	30 **9**	11	White round concrete tower; 23.	
	KUKYE HANG:						
16609 *M 4413.7*	-Kukye Hang, breakwater.	36° 18.9′ N 129° 23.0′ E	**Fl.R.** period 5s	56 **17**	8	Red round concrete tower; 33.	
16610 *M 4413.75*	-E. breakwater.	36° 19.1′ N 129° 22.9′ E	**Fl.R.** period 5s	43 **13**	5	Red round concrete tower; 33.	
16611 *M 4413.8*	-S. breakwater.	36° 19.0′ N 129° 22.8′ E	**Fl.G.** period 5s	42 **13**	5	White round concrete tower; 33.	
16611.5 *M 4413.65*	Jigyeong Hang, breakwater.	36° 15.6′ N 129° 22.6′ E	**Fl.R.** period 5s	49 **15**	5	Red round concrete tower; 33.	
16611.6 *M 4413.638*	Hwanjin Hang, N. breakwater.	36° 14.6′ N 129° 23.0′ E	**Fl.G.** period 4s	46 **14**	6	White round concrete tower; 33.	
16611.65 *M 4413.636*	-S. breakwater.	36° 14.4′ N 129° 23.2′ E	**Fl.G.** period 5s	39 **12**	6	White round concrete tower; 36.	
16611.8 *M 4413.63*	Josa Hang, breakwater.	36° 13.3′ N 129° 23.3′ E	**Fl.R.** period 4s	46 **14**	5	Red round concrete tower; 33.	
16611.9 *M 4413.625*	Igari Hang, N. breakwater.	36° 11.1′ N 129° 23.2′ E	**Fl.R.** period 5s	43 **13**	5	Red round concrete tower; 33.	
	POHANG HANG:						
16612 *M 4413.6*	**-Wol'po Man.**	36° 10.8′ N 129° 23.5′ E	**Fl.W.** period 7s	79 **24**	**19**	White round concrete tower; 33.	
16612.2 *M 4413.58*	-Cheongjin Hang, N. breakwater.	36° 10.4′ N 129° 23.8′ E	**Fl.R.** period 4s	62 **19**	5	Red round concrete tower; 33.	
16612.5 *M 4413.55*	-Chilpo Hang, breakwater.	36° 08.6′ N 129° 23.8′ E	**Fl.R.** period 5s	46 **14**	5	Red round concrete tower; 33.	
16613 *M 4410.8*	-Singhang, breakwater, NW. head.	36° 07.1′ N 129° 26.4′ E	**Fl.(4)Y.** period 8s	66 **20**	9	Yellow round concrete tower; 72.	**AIS** (MMSI No 994403573).
16613.5 *M 4410.9*	---SE. head.	36° 05.4′ N 129° 27.8′ E	**Fl.(2)R.** period 6s	102 **31**	8	Red four-sided concrete tower; 82.	
16614 *M 4410.6*	-Yongil Man, N. breakwater, head.	36° 06.7′ N 129° 26.4′ E	**Fl.R.** period 4s	49 **15**	7	Red octagonal concrete tower; 46.	
16614.5 *M 4410.52*	--Inner breakwater, N. head.	36° 06.7′ N 129° 25.9′ E	**Fl.R.** period 5s	23 **7**	6	Red round metal tower; 16.	
16615 *M 4410.54*	---S. head.	36° 06.7′ N 129° 25.9′ E	**Fl.G.** period 5s	23 **7**	5	White round metal tower; 16.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			SOUTH KOREA				
16615.5 *M 4410.65*	--S. breakwater, head.	36° 06.7′ N 129° 26.5′ E	**Fl.G.** period 4s	33 **10**	6	White round metal tower; 26.	
16616 *M 4410.5*	**-Yonam-gap.**	36° 04.6′ N 129° 25.2′ E	**Fl.W.** period 5s	108 **33**	**20**	White octagonal concrete tower; 46.	
16620 *M 4413.2*	-Old Harbor, N. breakwater, head.	36° 02.8′ N 129° 23.1′ E	**Fl.R.** period 5s	49 **15**	**15**	Red round concrete tower; 36.	
16620.5 *M 4413*	--S. breakwater, head.	36° 02.8′ N 129° 22.9′ E	**Fl.G.** period 5s	43 **13**	10	White round concrete structure; 33.	
16621 *M 4413.4*	-Dongbin Bridge.	36° 02.4′ N 129° 22.3′ E	**Iso.W.** period 4s	30 **9**	7	White round daymark, red stripes.	Iso.R. 4s 9m 7M and Iso.G. 4s 9m 7M mark width of navigable span. Iso.Y. 4s 3m 7M, Iso.Y. 4s 6m 7M and Iso.Y. 4s 4m 7M mark piers.
16624 *M 4412*	**-Pohang Shin Hang.**	36° 01.4′ N 129° 24.0′ E	**Dir.W.R.G.**	236 **72**	W. **18** R. **15** G. 14	White square framework tower; 226.	F.R. 258°42′-262°, F.W.-265°18′, F.G.-268°36′.
16626 *M 4411.4*	--Range, front.	36° 01.2′ N 129° 25.4′ E	**F.G.**	115 **35**	14	Framework tower; 98.	Visible 237°30′-245°30′.
16627 *M 4411.41*	---Rear, 241°30′ from front.	36° 00.9′ N 129° 24.7′ E	**F.G.**	240 **73**	14	Framework tower; 230.	Visible 237°30′-245°30′.
16628 *M 4412.6*	--Inner Harbor, inner detached breakwater, W. head.	36° 01.2′ N 129° 24.3′ E	**Fl.G.** period 5s	39 **12**	10	Red octagonal concrete tower; 33.	
16632 *M 4412.5*	----E. head.	36° 01.1′ N 129° 24.5′ E	**Fl.R.** period 5s	39 **12**	9	Red octagonal concrete tower; 33.	
16633 *M 4412.72*	---Outer detached breakwater, W. head.	36° 01.3′ N 129° 24.9′ E	**Fl.G.** period 4s	33 **10**	5	White round fiberglass structure; 23.	
16634 *M 4412.7*	----E. head.	36° 01.1′ N 129° 25.1′ E	**Fl.R.** period 4s	33 **10**	5	Red round fiberglass structure; 23.	
16636 *M 4411*	--Entrance, N. breakwater, head.	36° 01.6′ N 129° 25.9′ E	**Fl.R.** period 6s	66 **20**	**17**	Red octagonal column; 49.	
16640 *M 4411.2*	---S. breakwater, head.	36° 01.3′ N 129° 25.4′ E	**Fl.G.** period 6s	56 **17**	**15**	White round concrete structure; 43.	
16642 *M 4412.8*	-Seawater Sampling Tower.	36° 00.3′ N 129° 25.3′ E	**Fl.Y.** period 5s	20 **6**	7	SPECIAL Y, tower, topmark; 36.	
16642.5 *M 4408.5*	-Palsan-dong, S. breakwater, head.	36° 01.9′ N 129° 30.2′ E	**Fl.R.** period 4s	39 **12**	6	Red round concrete tower; 33.	
16642.6 *M 4408.55*	--N. breakwater, head.	36° 01.9′ N 129° 30.1′ E	**Fl.G.** period 4s	46 **14**	5	White round concrete tower; 33.	
16643 *M 4408*	-Taedongbae-dong, breakwater.	36° 03.6′ N 129° 31.9′ E	**Fl.G.** period 5s	31 **10**	5	White round metal tower; 23.	
16644 *M 4409*	-Gyoseokcho.	36° 05.5′ N 129° 33.5′ E	**Fl.G.** period 5s	49 **15**	5	PORT (B) G, tower, topmark; 66.	
	-RACON		**Z(– – • •)** period 60s		10		(3cm).
16648 *M 4410*	Daebo Hang, N. breakwater, head.	36° 04.8′ N 129° 33.8′ E	**Fl.R.** period 4s	49 **15**	6	Red round concrete tower; 26.	
16648.5 *M 4410.2*	-S. breakwater, head.	36° 04.8′ N 129° 33.8′ E	**Fl.G.** period 4s	42 **13**	6	White round concrete tower; 26.	
16648.6 *M 4410.1*	-Detached breakwater, N. head.	36° 04.9′ N 129° 33.8′ E	**Fl.(2)G.** period 6s	39 **12**	5	White round concrete tower; 23.	
16652 *M 4406*	**Homigot.**	36° 04.6′ N 129° 34.2′ E	**Fl.W.** period 12s	102 **31**	**27**	White octagonal brick tower; 85.	Visible 106°-347°. **Siren:** 1 bl. ev. 60s (bl. 4s, si. 56s).

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			SOUTH KOREA				
16654 *M 4404.6*	Seokbyeong, breakwater.	36° 00.7′ N 129° 34.7′ E	**Fl.R.** period 5s	43 **13**	5	Red round concrete tower; 33.	
	GURYONGPO HANG:						
16656 *M 4404*	**-Saramal.**	35° 59.5′ N 129° 34.0′ E	**Fl.W.** period 9s	59 **18**	**19**	White round concrete tower; 33.	Visible 208°-011°.
16660 *M 4405*	-Breakwater, head.	35° 59.1′ N 129° 33.5′ E	**Fl.R.** period 4s	46 **14**	9	Red round concrete tower; 33.	
16661 *M 4405.5*	-S. breakwater.	35° 59.1′ N 129° 33.6′ E	**Fl.G.** period 5s	46 **14**	9	White round concrete tower; 33.	
16661.3 *M 4403.9*	Janggireo Hang.	35° 57.1′ N 129° 32.7′ E	**Fl.R.** period 6s	46 **14**	9	Red pillar; 33.	
16661.4 *M 4403.88*	Gupyeongni Hang.	35° 56.6′ N 129° 32.2′ E	**Fl.G.** period 5s	39 **12**	6	White round concrete tower; 33.	
16661.5 *M 4403.8*	Mopo Hang, breakwater.	35° 55.9′ N 129° 31.5′ E	**Fl.R.** period 5s	49 **15**	5	Red round concrete tower; 33.	
16661.7 *M 4403.5*	Koejon-mal, Yeongam Hang, breakwater.	35° 54.3′ N 129° 31.8′ E	**Fl.R.** period 4s	33 **10**	6	Red round metal tower; 20.	
16661.9 *M 4403.3*	Inner breakwater.	35° 52.7′ N 129° 31.3′ E	**Fl.G.** period 4s	33 **10**	6	White round metal tower; 20.	
16662 *M 4403*	Yangp'o Hang.	35° 52.5′ N 129° 31.7′ E	**Fl.R.** period 4s	46 **14**	5	Red round concrete tower; 33.	
16664 *M 4402*	**Yangp'o.**	35° 52.2′ N 129° 32.0′ E	**Fl.W.** period 7s	79 **24**	**19**	White round concrete tower; 31.	Visible 110°-021°.
16665 *M 4401*	Cheoksa Hang, breakwater.	35° 48.8′ N 129° 30.8′ E	**Fl.R.** period 5s	26 **8**	5	Red metal tower; 20.	
	KAMP'O HANG:						
16668 *M 4400*	**-Songdae Khut.**	35° 48.4′ N 129° 30.7′ E	**Fl.W.** period 20s	112 **34**	**26**	White four-sided concrete tower; 69.	Visible 197°-014°. **Siren:** 1 bl. ev. 50s (bl. 5s, si. 45s).
	-RACON		**C(– • – •)**				
16669 *M 4399.5*	-Gwanam.	35° 48.3′ N 129° 30.9′ E	**Q.(6)+L.Fl.W.** period 15s	59 **18**	8	S. CARDINAL YB, beacon, topmark; 56.	
16672.1 *M 4398.2*	-N. breakwater, head.	35° 48.3′ N 129° 30.5′ E	**Fl.R.** period 4s	49 **15**	6	Red round concrete tower; 26.	
16672.2 *M 4399.2*	N. Kamp'o Hang.	35° 48.2′ N 129° 30.5′ E	**Fl.(2)G.** period 6s	43 **13**	5	White round concrete tower; 23.	
16672.3 *M 4397.85*	Jeonchon Hang.	35° 47.3′ N 129° 29.7′ E	**Fl.R.** period 5s	49 **15**	6	Red round concrete tower; 33.	
16672.5 *M 4397.86*	-S. breakwater.	35° 47.4′ N 129° 29.7′ E	**Fl.G.** period 5s	46 **14**	6	White round concrete tower; 33.	
16672.6 *M 4397.77*	Jukjeon, breakwater.	35° 42.0′ N 129° 28.5′ E	**Fl.(2)Y.** period 6s	49 **15**	7	Yellow round beacon; 30.	
16672.7 *M 4397.7*	Upchon Hang, N. breakwater.	35° 47.3′ N 129° 29.7′ E	**Fl.R.** period 5s	49 **15**	7	STARBOARD (B) R, tower; 33.	
16673 *M 4397.4*	Chongja Hang, N. breakwater.	35° 37.0′ N 129° 27.2′ E	**Fl.(2)R.** period 6s	52 **16**	8	Black metal tower; 33.	
16673.1 *M 4397.5*	-S. breakwater.	35° 37.0′ N 129° 27.2′ E	**Fl.G.** period 6s	52 **16**	9	White metal tower; 33.	
16673.5 *M 4397.3*	Wisuga Hang.	35° 35.8′ N 129° 27.8′ E	**Fl.(2)G.** period 6s	36 **11**	8	White round steel pipe; 26.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			SOUTH KOREA				
16673.6 *M 4397.1*	Uga Hang.	35° 35.6′ N 129° 27.8′ E	**Fl.R.** period 5s	36 **11**	5	Red round steel pipe; 26.	
16674 *M 4397*	Idokso.	35° 34.0′ N 129° 28.4′ E	**Fl.(2)W.** period 5s	46 **14**	8	ISOLATED DANGER BRB, tower, topmark; 59.	**AIS** (MMSI No 994401551).
16675 *M 4396.8*	Jujeon Hang, E. breakwater.	35° 33.7′ N 129° 27.5′ E	**Fl.R.** period 5s	43 **13**	5	Red concrete tower; 25.	
16675.5 *M 4396.7*	-W. breakwater.	35° 33.7′ N 129° 27.5′ E	**Fl.G.** period 5s	43 **13**	6	White round metal tower; 30.	
16680 *M 4394*	**Ulgi.**	35° 29.6′ N 129° 26.6′ E	**Fl.W.** period 10s	174 **53**	**26**	White octagonal concrete tower; 79.	Visible 184°-014°. **AIS** (MMSI No 994401546). **Horn.**
	MIPO HANG:						
16680.9 *M 4396.5*	-N. breakwater.	35° 31.6′ N 129° 27.2′ E	**Fl.R.** period 5s	56 **17**	9	Red round concrete tower; 33.	
16681.2 *M 4396.6*	-S. breakwater.	35° 31.5′ N 129° 27.0′ E	**Fl.G.** period 5s	59 **18**	8	White round concrete tower; 49.	
16682 *M 4395*	-Jeonhaman.	35° 30.5′ N 129° 26.9′ E	**Fl.(2)R.** period 6s	52 **16**	7	Red round tower; 30.	
16683 *M 4394.5*	-Ilsan Hang.	35° 29.9′ N 129° 26.4′ E	**Q.(6)+L.Fl.W.** period 15s	56 **17**	8	S. CARDINAL YB, tower, topmark; 62.	
	BANGEOJIN HANG:						
16684 *M 4390*	-Breakwater, head.	35° 28.8′ N 129° 25.7′ E	**Fl.G.** period 5s	49 **15**	9	White square metal framework tower; 36.	
16686 *M 4389*	-Seul Do, breakwater, head.	35° 28.7′ N 129° 25.7′ E	**Fl.R.** period 5s	52 **16**	8	Red round concrete tower; 33.	
16687 *M 4388*	---Elbow.	35° 28.7′ N 129° 25.9′ E	**Fl.W.** period 6s	75 **23**	**19**	White octagonal concrete tower; 52.	Visible 225°-075°.
	ULSAN MAN:						
16688 *M 4385*	**-Hwaam Chu.**	35° 28.4′ N 129° 24.4′ E	**Al.Fl.W.R.** period 20s	161 **49**	W. **26** R. **21**	White round concrete tower; 144.	Visible 250°-162°. **AIS** (MMSI No 994401545). **Horn:** 1 bl. ev. 60s (bl. 5s, si. 55s).
16690 *M 4381.3*	-Detached E. breakwater, E. head.	35° 28.1′ N 129° 24.4′ E	**Fl.Y.** period 4s	30 **9**	11	Yellow round concrete tower; 33.	
16690.1 *M 4381.301*	--A.	35° 28.0′ N 129° 24.0′ E	**Fl.Y.** period 4s	39 **12**	6	Yellow metal post; 20.	
16690.2 *M 4381.302*	--B.	35° 28.0′ N 129° 24.1′ E	**Fl.Y.** period 4s	39 **12**	6	Yellow metal post; 20.	
16690.3 *M 4381.303*	--C.	35° 28.0′ N 129° 24.1′ E	**Fl.Y.** period 4s	39 **12**	6	Yellow metal post; 20.	
16690.4 *M 4381.304*	--D.	35° 28.0′ N 129° 24.2′ E	**Fl.Y.** period 4s	39 **12**	6	Yellow metal post; 20.	
16690.5 *M 4381.305*	--E.	35° 28.1′ N 129° 24.2′ E	**Fl.Y.** period 4s	39 **12**	6	Yellow metal post; 20.	
16690.6 *M 4381.306*	--F.	35° 28.1′ N 129° 24.3′ E	**Fl.Y.** period 4s	39 **12**	6	Yellow metal post; 20.	
16690.7 *M 4381.307*	--G.	35° 28.1′ N 129° 24.3′ E	**Fl.Y.** period 4s	39 **12**	6	Yellow metal post; 20.	
16690.8 *M 4381.308*	--H.	35° 28.1′ N 129° 24.3′ E	**Fl.Y.** period 4s	39 **12**	6	Yellow metal post; 20.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			SOUTH KOREA				
16691 *M 4381.36*	--W. head.	35° 28.0′ N 129° 24.0′ E	**Fl.R.** period 4s	85 **26**	**19**	Red round concrete tower; 66.	**AIS** (MMSI No 994401550).
	--RACON		**O(– – –)** period 60s		10		(3cm).
16691.5 *M 4381.38*	-Hwaam Budu.	35° 28.3′ N 129° 24.3′ E	**Fl.(2)Y.** period 6s	56 **17**	10	Yellow round metal tower; 23.	
16692 *M 4381.4*	-Yugong Seaberth, A.	35° 28.6′ N 129° 23.4′ E	**Fl.(2)Y.** period 6s	36 **11**	7	Yellow round fiberglass tower; 16.	
16696 *M 4381.5*	--B.	35° 29.2′ N 129° 23.4′ E	**Fl.Y.** period 4s	30 **9**	11	SPECIAL Y, tower, "X" topmark; 16.	
16696.1 *M 4381.6*	--Inner pier, head.	35° 29.0′ N 129° 23.2′ E	**Fl.(3)Y.** period 7s	36 **11**	7	Yellow round tower; 26.	
16698 *M 4382.5*	-Jangsaengpo Hang, S. wharf.	35° 29.9′ N 129° 22.2′ E	**Fl.Y.** period 4s	26 **8**	8	Yellow round fiberglass tower; 23.	
16699 *M 4382.7*	--Pier, No 1.	35° 30.1′ N 129° 21.9′ E	**Fl.(2)Y.** period 6s	24 **7**	10	Yellow round fiberglass tower; 16.	
16699.5 *M 4381.8*	-Maeam Wharf.	35° 30.1′ N 129° 23.4′ E	**Fl.G.** period 4s	56 **17**	7	White round concrete tower; 49.	
16700 *M 4382*	-Ulsan Hang, breakwater, head.	35° 30.3′ N 129° 23.4′ E	**Fl.G.** period 6s	62 **19**	13	White concrete tower; 52.	**AIS** (MMSI No 994401547).
16702 *M 4383*	-Exports and Imports Wharf, A.	35° 31.1′ N 129° 23.6′ E	**Fl.(4)Y.** period 8s	20 **6**	7	SPECIAL Y, tower, "X" topmark; 13.	Private light.
16702.5 *M 4383.2*	--B.	35° 31.5′ N 129° 23.4′ E	**Fl.Y.** period 4s	20 **6**	7	SPECIAL Y, tower, "X" topmark; 13.	Private light.
16704 *M 4379*	-Onsan Hang, N. breakwater, head.	35° 27.1′ N 129° 22.4′ E	**Fl.R.** period 6s	46 **14**	13	Red round concrete tower; 33.	
	-RACON		**B(– • • •)**		10		(3 & 10cm).
16705 *M 4381.19*	--Detached breakwater, S. head.	35° 27.0′ N 129° 22.7′ E	**Fl.R.** period 4s	102 **31**	8	Red round concrete tower.	
16705.1 *M 4381.2*	---Elbow.	35° 27.3′ N 129° 22.8′ E	**Fl.(2)Y.** period 6s	36 **11**	7	Yellow round metal pipe.	
16706 *M 4381.12*	--S. breakwater, E. head.	35° 26.7′ N 129° 22.7′ E	**Fl.Y.** period 4s	56 **17**	12	Yellow round concrete tower; 43.	
16708 *M 4379.2*	---Elbow.	35° 26.9′ N 129° 22.2′ E	**Fl.G.** period 6s	72 **22**	13	White round structure; 56.	
16709 *M 4379.7*	--Jeongil Wharf.	35° 27.0′ N 129° 22.0′ E	**Fl.Y.** period 4s		7	Yellow round fiberglass tower; 13.	
16710 *M 4379.4*	--Ssangyang Oil Refining Wharf.	35° 27.1′ N 129° 21.6′ E	**Fl.(4)Y.** period 8s	30 **9**	7	Yellow square metal tower; 16.	
16710.5 *M 4379.45*	---Pier, No 1.	35° 27.1′ N 129° 21.4′ E	**Fl.(3)Y.** period 7s	30 **9**	7	Yellow square metal tower; 20.	
16710.6 *M 4379.48*	----No 3.	35° 27.1′ N 129° 21.2′ E	**Fl.Y.** period 4s	46 **14**	10	Yellow round metal tower; 33.	
16711 *M 4379.5*	--Yuhwa Wharf, No 1, A.	35° 27.2′ N 129° 21.2′ E	**Fl.(2)Y.** period 6s	32 **10**	7	SPECIAL Y, tower, "X" topmark; 16.	
16711.3 *M 4379.6*	--OTK Wharf, No 1, B.	35° 27.4′ N 129° 21.1′ E	**Fl.(2)Y.** period 6s	30 **9**	7	Yellow round fiberglass column; 13.	**Horn:** 1 bl. ev. 20s.
16711.35 *M 4379.65*	---No 2.	35° 27.5′ N 129° 21.0′ E	**Fl.(4)Y.** period 8s	26 **8**	7	Yellow round fiberglass column; 13.	
16711.6 *M 4381.14*	-W. breakwater, N. head.	35° 26.7′ N 129° 22.9′ E	**Fl.G.** period 4s	98 **30**	**19**	White round concrete tower.	**AIS** (MMSI No 994401549).

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			SOUTH KOREA				
16711.65 *M 4381.16*	-S. head.	35° 25.6′ N 129° 22.6′ E	**Fl.(2)R.** period 6s	102 **31**	10	Red round concrete tower.	**AIS** (MMSI No 994401548).
16711.8 *M 4381.18*	-S. breakwater, E. head.	35° 25.9′ N 129° 22.4′ E	**Fl.(2)G.** period 6s	102 **31**	10	White round concrete tower.	
16711.85 *M 4381*	Donghae-1.	35° 25.8′ N 130° 00.0′ E	**Mo.(U)W.** period 15s	154 **47**	14	Platform; 581.	**Horn:** Mo.(U) 30s (bl. 1s, si. 29s).
	RACON		**D(– • •)**		**20**		(3 & 10cm).
16711.89 *M 4378.1*	Gangyang Hang Bridge.	35° 23.4′ N 129° 20.8′ E	**Fl.(2)W.** period 6s		6	Red circular daymark, white stripes.	Fl.(2)G. 6s 7M and Fl.(2)R. 6s 7M mark width of navigable span. Fl.(2)Y. 6s 7M mark piers and bridge span.
16711.9 *M 4378.2*	Gangyang.	35° 23.4′ N 129° 20.8′ E	**Fl.G.** period 5s	33 **10**	7	Green concrete tower; 36.	
16711.94 *M 4378.05*	Songjeong Hang.	35° 22.1′ N 129° 21.8′ E	**Fl.R.** period 6s	39 **12**	5	Red round concrete tower; 30.	
16711.95 *M 4378.03*	Daesong Hang.	35° 21.8′ N 129° 21.7′ E	**Fl.(2)R.** period 6s	39 **12**	5	Red round concrete tower; 30.	
16712 *M 4378*	**Kanjol Gap.**	35° 21.6′ N 129° 21.6′ E	**Fl.W.** period 15s	115 **35**	**26**	White octagonal concrete tower; 56.	**AIS** (MMSI 994401544). Visible 165°-045°. **Horn:** 1 bl. ev. 55s (bl. 5s, si. 50s).
16713 *M 4377.9*	**Nasa.**	35° 21.1′ N 129° 20.7′ E	**Fl.W.** period 6s	59 **18**	**19**	White round concrete tower; 39.	
16714 *M 4377.6*	Wolnae Hang, S. breakwater.	35° 19.5′ N 129° 16.8′ E	**Fl.G.** period 5s	39 **12**	5	White round concrete tower; 32.	
16716.1 *M 4377.53*	Sinpyeong Hang, S. breakwater, head.	35° 17.8′ N 129° 15.7′ E	**Fl.R.** period 5s	49 **15**	8	Red round concrete tower; 36.	
16716.2 *M 4377.7*	Dongbaekeo Hang, N. breakwater, head.	35° 17.3′ N 129° 15.5′ E	**Fl.R.** period 5s	39 **12**	5	Red round concrete tower; 33.	
16718 *M 4377.1*	Hakri Hang, breakwater.	35° 15.7′ N 129° 14.8′ E	**Fl.(2)G.** period 5s	49 **15**	5	White round concrete tower; 46.	
16718.5 *M 4376.6*	Duho Hang.	35° 14.5′ N 129° 15.1′ E	**Fl.G.** period 4s	62 **19**	8	STARBOARD (A) G, tower, topmark; 39.	
16718.6 *M 4376.4*	Woljeon Hang, breakwater.	35° 14.2′ N 129° 14.7′ E	**Fl.R.** period 4s	43 **13**	8	Red four-sided concrete tower; 36.	
16719 *M 4376.3*	Gwanggyemal.	35° 13.8′ N 129° 14.7′ E	**Fl.W.** period 6s	75 **23**	8	White octagonal concrete tower; 43.	
16720 *M 4376*	Taebyon Hang, inner breakwater, head.	35° 13.3′ N 129° 13.8′ E	**Fl.R.** period 5s	59 **18**	8	Red round concrete tower; 43.	
16721 *M 4375.9*	-E. breakwater, head.	35° 12.9′ N 129° 14.0′ E	**Fl.(2)R.** period 6s	75 **23**	12	Red round concrete tower; 56.	
16722.5 *M 4375.95*	-S. breakwater, E. head.	35° 12.8′ N 129° 14.0′ E	**Fl.G.** period 5s	79 **24**	8	White round concrete tower; 56.	
16723 *M 4375.98*	-S. breakwater, W. head.	35° 12.8′ N 129° 13.9′ E	**Fl.Y.** period 5s	66 **20**	8	Yellow round concrete tower; 46.	
16723.5 *M 4375.7*	Songjeong Hang, E. breakwater.	35° 10.9′ N 129° 12.4′ E	**Fl.R.** period 5s	36 **11**	8	Red round concrete tower; 33.	
16723.51 *M 4375.71*	-W. breakwater.	35° 10.8′ N 129° 12.5′ E	**Fl.G.** period 5s	36 **11**	8	White round concrete tower; 33.	
16724 *M 4375.6*	Songjungri.	35° 10.2′ N 129° 13.0′ E	**Q.(3)W.** period 10s	49 **15**	8	E. CARDINAL BYB, tower, topmark; 49.	**AIS** (MMSI No 994401589).
16724.2	Kyosokchu.	35° 09.5′ N 129° 12.2′ E	**Q.(3)W.** period 5s	65 **20**	7	E. CARDINAL BYB, tower, topmark; 62.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			SOUTH KOREA				
16724.21 *M 4375.53*	Chongsapo, W. breakwater.	35° 09.5′ N 129° 11.5′ E	**Fl.G.** period 5s	62 **19**	8	White round concrete tower; 56.	
16724.22 *M 4375.52*	-E. breakwater.	35° 09.6′ N 129° 11.5′ E	**Fl.R.** period 5s	62 **19**	8	Red round concrete tower; 56.	
	PUSAN HANG:						
16724.3	-Suyeong Man.	35° 09.1′ N 129° 10.3′ E	**Fl.(2)W.** period 5s	92 **28**	7	RYR round steel tower; 65.	
16724.4 *M 4374.4*	-Yacht Port, breakwater, E. head.	35° 09.4′ N 129° 08.4′ E	**Fl.R.** period 4s	33 **10**	6	Red conical fiberglass structure, concrete base; 23.	
16724.8 *M 4374.7*	--W. breakwater, head.	35° 09.5′ N 129° 08.3′ E	**Fl.(2)G.** period 6s	33 **10**	6	White conical fiberglass structure, concrete base; 23.	
16725.2 *M 4374.5*	-Center, breakwater, E. head.	35° 09.5′ N 129° 08.4′ E	**Fl.G.** period 4s	33 **10**	6	White conical fiberglass structure, concrete base; 23.	
16725.6 *M 4374.6*	--W. head.	35° 09.5′ N 129° 08.3′ E	**Fl.(2)R.** period 6s	33 **10**	6	Red conical fiberglass structure, concrete base; 23.	
16725.8 *M 4374.8*	--Suyong Man fishing harbor, E. breakwater.	35° 09.7′ N 129° 08.1′ E	**Fl.R.** period 6s	30 **9**	8	Red round fiberglass tower; 23.	
16725.9 *M 4374.81*	---W. breakwater.	35° 09.7′ N 129° 08.1′ E	**Fl.G.** period 6s	30 **9**	8	Green round fiberglass tower; 23.	
16726.5 *M 4374.123*	Gwangandaero Bridge.	35° 09.4′ N 129° 08.2′ E	**Fl.(4)G.** period 8s	62 **19**	5	Green square daymark.	Visible 218°-038°.
16727 *M 4374.2*	Millaktong, E. breakwater.	35° 09.2′ N 129° 07.8′ E	**Fl.(2)R.** period 6s	49 **15**	5	Red round concrete tower; 33.	
16727.1 *M 4374.3*	-W. breakwater.	35° 09.2′ N 129° 07.9′ E	**Fl.(2)G.** period 6s	49 **15**	5	White round concrete tower; 33.	
16727.5 *M 4374.1*	Kwangalli Meteorological Observation Station.	35° 08.1′ N 129° 08.0′ E	**Fl.(4)Y.** period 8s	33 **10**	7	Yellow round metal tower; 69.	
16727.6 *M 4374.05*	Yonghoman, wharf, N. corner.	35° 07.9′ N 129° 07.1′ E	**Fl.(2)R.** period 6s	16 **5**	7	Red metal pipe; 16.	
16727.7 *M 4374.051*	-E. corner.	35° 07.9′ N 129° 07.1′ E	**Fl.(2)R.** period 6s	16 **5**	7	Red metal pipe; 16.	
16727.8 *M 4355.9*	-Sangdo.	35° 02.2′ N 129° 05.6′ E	**Fl.(2)W.** period 5s	187 **57**	11	ISOLATED DANGER BRB, beacon, topmark; 79.	**AIS** (MMSI No 994401596).
16728 *M 4356*	**-Yong Do.**	35° 03.1′ N 129° 05.5′ E	**Fl.(3)W.** period 18s	285 **87**	**24**	White round metal tower; 112.	Visible 205°-045°. **Horn:** 1 bl. ev. 45s (bl. 5s, si. 40s). **Radiobeacon.** **DGPS Station.**
16730	Pusan fairway buoy.	35° 04.0′ N 129° 07.9′ E	**Mo.(A)W.** period 8s			SAFE WATER RW, pillar, topmark.	
	RACON		**G(– – •)**				
16732 *M 4374*	**Oryuk To.**	35° 05.5′ N 129° 07.6′ E	**Fl.W.** period 10s	174 **53**	**22**	White round concrete tower; 89.	Visible 203°-099°. **AIS** (MMSI No 994401578). **Horn:** 1 bl. ev. 40s (bl. 5s, si. 35s).
16732.8 *M 4356.8*	Inner breakwater, SE. head.	35° 05.5′ N 129° 06.4′ E	**Fl.(3)G.** period 7s	26 **8**	8	Green round concrete tower; 20.	
16732.9 *M 4356.9*	Outer breakwater, SW. head.	35° 05.5′ N 129° 06.6′ E	**Fl.(3)R.** period 7s	26 **8**	8	Red round concrete tower; 20.	
16733 *M 4356.7*	Oryukto Breakwater, NE. head.	35° 05.5′ N 129° 06.8′ E	**Fl.Y.** period 5s	59 **18**	8	Yellow round concrete tower; 39.	
16733.1 *M 4356.6*	-SW. head.	35° 05.1′ N 129° 06.3′ E	**Iso.R.** period 4s	66 **20**	10	Red round concrete tower; 49.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			SOUTH KOREA				
16734 *M 4356.4*	Chodo Breakwater, E. head.	35° 04.8′ N 129° 06.3′ E	**Iso.G.** period 4s	66 **20**	12	White round concrete tower; 46.	**AIS** (MMSI No 994401577).
	RACON		**K(– • –)**		10		(3 & 10cm).
16735 *M 4356.5*	-W. head.	35° 04.7′ N 129° 05.9′ E	**Fl.Y.** period 5s	52 **16**	7	Yellow round concrete tower; 33.	
16737	Tongsan-Dong, breakwater.	35° 04.1′ N 129° 05.2′ E	**Fl.G.** period 5s	46 **14**	5	White round concrete tower; 29.	
16738 *M 4356.55*	Haegyeong, wharf.	35° 05.1′ N 129° 05.0′ E	**Fl.(2)G.** period 8s	66 **20**	6	White round concrete tower; 59.	
16739 *M 4356.58*	Bukbin, wharf.	35° 05.4′ N 129° 04.7′ E	**Fl.G.** period 4s	36 **11**	7	White round metal tower; 33.	
16740.2 *M 4361*	-Inner harbor, S. breakwater, head.	35° 06.2′ N 129° 03.8′ E	**Iso.Y.** period 4s	59 **18**	11	Green round tower; 49.	**Radar reflector.**
16741 *M 4359.5*	-Busan Harbor Bridge.	35° 06.3′ N 129° 03.9′ E	**Iso.W.** period 4s	223 **68**	7		Iso.R. 66m 7M and Iso.G. 65m 7M mark width of navigable span. Iso.Y. 5m 7M mark bridge piers. **AIS** (MMSI No 994401576).
16748 *M 4360*	-Deungmudari.	35° 06.2′ N 129° 03.5′ E	**Q.W.**	43 **13**	12	N. CARDINAL BY, tower, topmark; 56.	
16748.5 *M 4359*	Gamman Wharf.	35° 06.7′ N 129° 04.0′ E	**Fl.(2)R.** period 6s	39 **12**	8	White round concrete tower; 33.	
16749 *M 4357.6*	Uam Viaduct, No 1.	35° 07.6′ N 129° 04.0′ E	**Fl.(4)Y.** period 8s	13 **4**	5	SPECIAL Y, beacon, "X" topmark; 36.	
16749.5 *M 4357.8*	-No 2.	35° 07.7′ N 129° 04.0′ E	**Fl.(4)Y.** period 8s	13 **4**	5	SPECIAL Y, beacon, "X" topmark; 36.	
16750 *M 4363*	Pusan Shipyard, pier, N. head.	35° 06.1′ N 129° 03.3′ E	**Fl.(4)Y.** period 8s	16 **5**	6	Yellow four-sided metal tower; 16.	
16751 *M 4365*	Taehan Shipyard, pier, head.	35° 06.0′ N 129° 02.9′ E	**Fl.(4)Y.** period 8s	39 **12**	7	Yellow round metal tower; 33.	
16752 *M 4366*	Nam Hang, W. breakwater, head.	35° 05.2′ N 129° 01.9′ E	**Fl.G.** period 5s	72 **22**	12	White round concrete tower; 46.	
16756 *M 4368*	-E. breakwater, head.	35° 05.1′ N 129° 02.0′ E	**Fl.R.** period 5s	72 **22**	12	Red round concrete tower; 56.	**AIS** (MMSI No 994401592).
16756.5 *M 4369*	Namhang Bridge.	35° 04.7′ N 129° 01.6′ E	**Fl.(3)W.** period 7s	128 **39**	7	White circular daymark, red stripes.	Fl.(3)Y. 7s 6M and Fl.Y. 4s 6M mark bridge and piers.
			Fl.(3)R. period 7s	128 **39**	7	Red triangular daymark point up.	36m E. of center light.
			Fl.(3)G. period 7s	128 **39**	7	Green square daymark.	31m W. of center light.
	RACON		**C(– • – •)**		3		(3 & 10cm).
16757 *M 4369.45*	South Harbour. Songdo.	35° 04.5′ N 129° 01.5′ E	**Q.(3)W.** period 10s	43 **13**	7	E. CARDINAL BYB, tower, topmark; 49.	
16759	*-Fairway Buoy.*	35° 01.7′ N 129° 01.5′ E	**L.Fl.W.** period 10s			SAFE WATER RW, pillar, topmark.	
	-RACON		**N(– •)**		3		(3 & 10cm).
16759.3 *M 4369.5*	Chonjong-san, breakwater.	35° 04.3′ N 129° 01.2′ E	**Fl.(2)G.** period 6s	52 **16**	5	White beacon; 23.	
16759.4 *M 4369.55*	-Chonjong-san, wharf.	35° 04.3′ N 129° 01.1′ E	**Fl.(2)R.** period 6s	52 **16**	4	Red beacon; 23.	
16760 *M 4355.4*	Kamch′on Hang, E. breakwater.	35° 03.1′ N 129° 00.5′ E	**Fl.(2)R.** period 6s	105 **32**	8	Red round concrete tower; 98.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			SOUTH KOREA				
16760.5 *M 4355.5*	-W. breakwater.	35° 02.9′ N 129° 00.4′ E	**Fl.(2)G.** period 6s	105 **32**	9	White round concrete tower; 98.	**AIS** (MMSI No 994401585).
	-RACON		**Y(– • – –)**		10		(3 & 10cm).
16763 *M 4354.81*	-Entrance Range, front.	35° 03.7′ N 128° 59.6′ E	**F.G.**	348 **106**	**23**	Red and white metal tower; 331.	
16763.5 *M 4354.82*	--Rear, 775 meters 314°18′ from front.	35° 03.9′ N 128° 59.4′ E	**F.G.**	531 **162**	**23**	White round concrete tower, red bands; 128.	
16764 *M 4355*	Tudo.	35° 02.9′ N 129° 00.9′ E	**Fl.(3)W.** period 7s	177 **54**	8	White round concrete tower; 26.	Visible 204°-163°.
16765 *M 4355.1*	-SW.	35° 02.8′ N 129° 00.9′ E	**Fl.(2)R.** period 6s	59 **18**	8	STARBOARD (B) R, beacon, topmark; 59.	
16768 *M 4354*	So Do.	35° 01.7′ N 128° 58.4′ E	**Fl.W.** period 6s	390 **119**	8	White hexagonal concrete tower; 118.	**AIS** (MMSI No 994401586).
	RACON		**M(– –)**		10		(3 & 10cm).
16768.5 *M 4354.6*	Songdo.	35° 02.6′ N 128° 59.5′ E	**Fl.R.** period 4s	66 **20**	5	Red round concrete tower, triangular daymark point up; 49.	
16769 *M 4354.7*	-Jadam Mal.	35° 02.6′ N 129° 00.0′ E	**Q.(6)+L.Fl.W.** period 15s	63 **19**	8	S. CARDINAL YB, tower, topmark; 46.	
16770 *M 4354.5*	Kyungdo.	35° 02.2′ N 128° 58.9′ E	**Fl.W.** period 5s	135 **41**	11	White octagonal concrete tower; 33.	
16771 *M 4354.8*	Tadaepo.	35° 03.2′ N 128° 59.0′ E	**Fl.G.** period 10s	36 **11**	6	White round concrete tower; 30.	
16771.5 *M 4354.9*	-Fishing harbor.	35° 03.4′ N 128° 58.8′ E	**Fl.(3)R.** period 8s	36 **11**	9	Red round concrete tower; 33.	
16772 *M 4353.5*	Mokto.	34° 58.8′ N 128° 59.4′ E	**Fl.(2)W.** period 6s	226 **69**	11	White round concrete tower; 30.	**AIS** (MMSI No 994401587).
	RACON		**B(– • • •)**		10		(3 & 10cm).
16773 *M 4353.965*	Nagdong Gang, breakwater, head.	35° 05.8′ N 128° 55.7′ E	**Fl.G.** period 5s	26 **8**	8	White round concrete tower; 36.	
16774.5	Naktongpo Bridge Navigation channel, center.	35° 06.4′ N 128° 55.8′ E	**Fl.W.** period 4s	23 **7**	7	White round daymark, red stripes.	
16775	Pukyongjedo.	34° 56.0′ N 128° 58.4′ E	**Fl.W.** period 4s	164 **50**	12	White round concrete tower; 63.	
16775.5 *M 4353.7*	Namhyongjedo.	34° 53.1′ N 128° 57.0′ E	**Fl.(2)W.** period 5s	95 **29**	12	ISOLATED DANGER BRB, tower, topmark; 79.	**AIS** (MMSI No 994401594).
16775.7 *M 4352.5*	Taehang-ni, E.	35° 00.9′ N 128° 50.1′ E	**Fl.G.** period 5s	36 **11**	8	White octagonal tower; 30.	
16776 *M 4352*	**Tongdu–mal.**	34° 59.4′ N 128° 49.7′ E	**Fl.W.** period 12s	341 **104**	**21**	White octagonal concrete tower; 131.	Visible 223°-137°. **AIS** (MMSI No 994401588). **Siren:** 1 bl. ev. 55s (bl. 5s, si. 50s).
16778 *M 4351.8*	Daejug Do.	35° 00.5′ N 128° 46.9′ E	**Fl.W.** period 6s	62 **19**	7	White round concrete tower; 46.	**AIS** (MMSI No 994401590).
	RACON		**O(– – –)**		10		(3 & 10cm).
16779 *M 4352.3*	Taehang-ni.	35° 00.7′ N 128° 49.5′ E	**Fl.G.** period 5s	49 **15**	8	White round concrete tower; 33.	
16779.5 *M 4350.8*	Geoga Bridge.	35° 00.9′ N 128° 45.2′ E	**Iso.W.** period 4s	125 **38**	7	White circular daymark, red stripes.	Iso.R. 4s 38m 8M and Iso.G. 4s 38m 7M mark width of navigable span.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			SOUTH KOREA				
16779.7 *M 4350.5*	Jeo Do Bridge, N. span.	35° 01.1′ N 128° 43.6′ E	**Iso.W.** period 6s	125 **38**	7	White circular daymark, red stripes.	Iso.R. 6s 38m 7M and Iso.G. 6s 38m 7M mark width of navigable span. Visible 089°-269°.
16779.71 *M 4350.6*	-S. span.	35° 01.0′ N 128° 43.7′ E	**Iso.W.** period 6s	125 **38**	7	White circular daymark, red stripes.	Iso.R. 6s 38m 7M and Iso.G. 6s 38m 7M mark width of navigable span. Visible 269°-089°.
	-RACON		**G(– – •)**		10		(3 & 10cm).
16780 *M 4351*	Saegeun Seo.	35° 01.9′ N 128° 43.9′ E	**Fl.(2)W.** period 5s	38 **12**	8	ISOLATED DANGER BRB, tower, topmark; 39.	
16780.4 *M 4350.1*	Uho Hang, E. breakwater.	35° 01.7′ N 128° 43.0′ E	**Fl.G.** period 4s	30 **9**	5	White round steel tower; 15.	
16780.5 *M 4350.2*	-N. breakwater.	35° 01.7′ N 128° 42.9′ E	**Fl.R.** period 4s	26 **8**	5	Red round steel tower; 16.	
16781	Chang-mal, breakwater, W. head.	35° 04.7′ N 128° 46.9′ E	**Fl.(2)R.** period 6s	20 **6**	6	Red square steel tower; 12.	
16781.1	-E. head.	35° 04.7′ N 128° 47.1′ E	**Fl.(2)Y.** period 6s	20 **6**	7	Yellow square steel tower; 12.	
16781.5 *M 4351.15*	Angolpo.	35° 05.6′ N 128° 47.4′ E	**Fl.R.** period 5s	46 **14**	8	Red octagonal concrete tower; 36.	
16782 *M 4351.4*	Kojin-mal, breakwater, W. head.	35° 02.9′ N 128° 47.2′ E	**Fl.R.** period 4s	128 **39**	11	Red square concrete tower; 89.	
16782.1 *M 4351.5*	--E. head.	35° 02.9′ N 128° 47.6′ E	**Fl.Y.** period 6s	75 **23**	8	Yellow octagonal concrete tower; 69.	
16783 *M 4351.3*	Yondo, breakwater.	35° 03.5′ N 128° 46.7′ E	**Fl.G.** period 4s	112 **34**	12	White square concrete tower; 62.	
16784	*Kadok Sudo Center Buoy No C.*	35° 01.4′ N 128° 47.3′ E	**Mo.(A)W.** period 8s			SAFE WATER RW, pillar, topmark.	
	RACON		**Q(– – •)**		10		(3 & 10cm).
16788	*-No 2.*	35° 02.5′ N 128° 40.5′ E	**L.Fl.W.** period 10s			SAFE WATER RW, pillar, topmark.	
	-RACON		**K(– • –)** period 60s		3		(3cm).
16792 *M 4345*	Toggi Seom.	35° 04.6′ N 128° 42.9′ E	**Fl.W.** period 4s	226 **69**	8	White round concrete tower; 49.	
16796 *M 4344*	Ch'ori Do.	35° 04.6′ N 128° 41.3′ E	**Fl.W.** period 6s	164 **50**	8	White round concrete tower; 39.	
16800 *M 4347*	Madang So.	35° 06.4′ N 128° 40.8′ E	**Fl.(2)W.** period 5s	46 **14**	8	ISOLATED DANGER BRB, beacon, topmark; 43.	Storm signal.
16802 *M 4347.5*	Chungjuk To.	35° 08.1′ N 128° 40.9′ E	**Fl.(2)W.** period 5s	46 **14**	8	ISOLATED DANGER BRB, tower, topmark; 46.	
16803 *M 4347.7*	Jinhae-hang, breakwater.	35° 08.5′ N 128° 40.5′ E	**Fl.G.** period 4s	43 **13**	5	White round concrete tower; 33.	
16804 *M 4346*	Dotumari Am.	35° 05.8′ N 128° 40.7′ E	**Fl.(2)W.** period 5s	46 **14**	12	ISOLATED DANGER BRB, beacon, topmark; 46.	
16805 *M 4345.3*	Umji-do.	35° 05.4′ N 128° 43.0′ E	**Fl.(2)W.** period 5s	36 **11**	8	ISOLATED DANGER BRB, beacon, topmark; 43.	
16808 *M 4343*	Dochinyeo.	35° 04.5′ N 128° 40.3′ E	**Fl.(2)W.** period 5s	33 **10**	8	ISOLATED DANGER BRB, tower, topmark; 39.	
	RACON		**C(– • – •)**		10		(3 & 10cm).
16810	-Bridge.	35° 12.8′ N 128° 37.1′ E	**F.W.**	36 **11**	5	White round daymark, red stripes.	Marks center of navigable span.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			SOUTH KOREA				
	MASAN HANG:						
16811	-E. breakwater, E. head.	35° 12.2′ N 128° 35.1′ E	**Fl.G.** period 4s	26 **8**	8	White round fiberglass tower; 20.	
16812	--W. head.	35° 12.2′ N 128° 35.0′ E	**Fl.R.** period 4s	26 **8**	8	Red round fiberglass tower; 20.	
16813 *M 4349.2*	-Detached breakwater, E. head.	35° 12.1′ N 128° 34.9′ E	**Fl.G.** period 6s	36 **11**	8	White round concrete tower; 33.	
16814 *M 4349.3*	--W. head.	35° 12.0′ N 128° 34.8′ E	**Fl.R.** period 6s	36 **11**	8	Red round concrete tower; 33.	
16815 *M 4348.8*	--W. detached breakwater, E. head.	35° 12.0′ N 128° 34.7′ E	**Fl.G.** period 4s	28 **9**	8	White round fiberglass tower; 23.	
16815.5 *M 4348.9*	---W. head.	35° 12.0′ N 128° 34.6′ E	**Fl.R.** period 4s	30 **9**	8	White round fiberglass tower; 23.	
16815.9 *M 4348.7*	Masan Hang.	35° 11.9′ N 128° 34.6′ E	**Fl.G.** period 4s	39 **12**	8	White round tower; 33.	
16816 *M 4348*	**Makkae Do.**	35° 08.3′ N 128° 36.0′ E	**Fl.W.** period 6s	82 **25**	**15**	White round concrete tower; 33.	
16817	Breakwater, head.	35° 08.0′ N 128° 37.7′ E	**Fl.G.**	7 **2**		White concrete cone; 10.	
16817.1 *M 4342.54*	Paengnaegi-san, E. breakwater, N. head.	35° 04.2′ N 128° 38.2′ E	**Fl.G.** period 5s	16 **5**	6	White round steel tower; 13.	
16817.2 *M 4342.53*	--S. head.	35° 04.1′ N 128° 38.3′ E	**Fl.R.** period 5s	16 **5**	6	Red round steel tower; 13.	
16817.3 *M 4342.5*	-W. breakwater, head.	35° 04.0′ N 128° 37.8′ E	**Fl.G.** period 4s	46 **14**	6	White round concrete tower; 30.	
16817.4 *M 4342.51*	-S. breakwater, E. head.	35° 04.0′ N 128° 37.9′ E	**Fl.G.** period 4s	46 **14**	6	White round concrete tower; 30.	
16817.5 *M 4342.52*	--W. head.	35° 03.9′ N 128° 37.8′ E	**Fl.R.** period 4s	46 **14**	5	Red round concrete tower; 30.	
16818 *M 4342.4*	Paegam (Baeg Am).	35° 02.5′ N 128° 37.7′ E	**Fl.G.** period 5s	46 **14**	5	Green hexagonal concrete tower; 43.	
	RACON		**B (– • • •)**		10		(3 & 10cm).
16819 *M 4342*	Hugam.	35° 02.4′ N 128° 36.6′ E	**Fl.(2)W.** period 5s	39 **12**	8	ISOLATED DANGER BRB, tower, topmark; 43.	
16820.5	Bokjingaeyeo.	35° 03.8′ N 128° 33.9′ E	**Fl.G.** period 4s	23 **7**	5	STARBOARD (A) G, tower, topmark; 26.	
16820.9 *M 4340.978*	Jindong Hang, E. breakwater.	35° 05.9′ N 128° 28.8′ E	**Fl.R.** period 6s	33 **10**	6	Red round concrete tower; 26.	
16820.93 *M 4340.979*	-W. breakwater.	35° 05.9′ N 128° 28.8′ E	**Fl.G.** period 4s	33 **10**	5	White round concrete tower; 26.	
16821 *M 4340.98*	Kwangam Hang, breakwater.	35° 06.1′ N 128° 29.7′ E	**Fl.R.** period 4s	39 **12**	5	Red round concrete tower; 23.	
16821.03 *M 4340.983*	-Pier.	35° 06.2′ N 128° 29.7′ E	**Fl.G.** period 4s	23 **7**	5	White round metal tower; 16.	
16821.1 *M 4340.99*	Changgun-san Bridge.	35° 04.5′ N 128° 28.0′ E	**Iso.W.** period 4s	95 **29**	7	White circular daymark, red stripes.	Iso.R. 4s 29m 7M and Iso.G. 4s 29m 7M mark width of navigable span. Iso.Y. 4s 24m 6M marks bridge pilings.
16821.2 *M 4340.984*	Suu-do.	35° 05.3′ N 128° 30.6′ E	**Fl.(2)W.** period 5s	36 **11**	8	ISOLATED DANGER BRB, tower, topmark; 52.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			SOUTH KOREA				
16821.5 *M 4340.974*	Dangdong Hang.	34° 59.3′ N 128° 24.6′ E	**Fl.R.** period 4s	36 **11**	5	Red round concrete tower; 26.	
16822 *M 4342.7*	Sobombuk To.	35° 00.1′ N 128° 39.7′ E	**Q.W.**	43 **13**	8	N. CARDINAL BY, beacon, topmark; 46.	
16823 *M 4340.85*	Chilcheon Bridge.	35° 04.5′ N 128° 28.0′ E	**Iso.W.** period 4s	62 **19**	7	White round daymark, red stripes.	Iso.R. 4s 19m 4M and Iso.G. 4s 19m 4M mark width of navigable span. Iso.Y. 4s 14m 6M mark bridge pilings.
16824 *M 4340.8*	Mae Am.	34° 58.3′ N 128° 38.9′ E	**Fl.G.** period 4s	31 **9**	5	PORT (B) G, beacon, topmark; 33.	
16826	*Buoy 1.*	35° 00.3′ N 128° 34.8′ E	**Fl.G.** period 4s			PORT (B) G, pillar, topmark.	
	RACON		**M(– –)**		3		(3 & 10cm).
16828 *M 4341*	**Hwangdok To.**	35° 00.7′ N 128° 37.2′ E	**Fl.W.** period 6s	299 **91**	**15**	White round concrete tower; 52.	
16829 *M 4351.9*	Kyok-to.	34° 58.8′ N 128° 42.6′ E	**Q.(3)W.** period 10s	56 **17**	8	E. CARDINAL BYB, beacon, topmark; 52.	
16830 *M 4340.9*	Samsong, seaberth.	34° 54.9′ N 128° 35.7′ E	**Fl.(4)Y.** period 8s	23 **7**	7	Yellow round fiberglass tower; 13.	
16832 *M 4341.4*	Yech′im Do.	34° 56.8′ N 128° 35.0′ E	**Fl.W.** period 6s	138 **42**	8	White round concrete tower; 36.	
16836 *M 4340.7*	Ogapo Hang, N. harbor.	34° 56.3′ N 128° 43.2′ E	**Fl.G.** period 4s	33 **10**	6	White hexagonal concrete structure; 23.	
16838 *M 4340.75*	-E. breakwater.	34° 56.2′ N 128° 43.3′ E	**Fl.R.** period 6s	46 **14**	5	Red octagonal concrete tower; 26.	
16840 *M 4340.5*	**Okp'o Hang,** S. breakwater, head.	34° 53.7′ N 128° 43.2′ E	**Fl.G.** period 7s	49 **15**	**18**	White round concrete tower; 43.	
16844 *M 4340.6*	-N. breakwater, head.	34° 53.8′ N 128° 43.0′ E	**Fl.R.** period 7s	49 **15**	**20**	Red round concrete tower; 36.	
16846 *M 4340.4*	Nungpo Hang, E. breakwater, head.	34° 53.3′ N 128° 44.3′ E	**Fl.G.** period 6s	42 **13**	5	White round concrete tower; 33.	
16847 *M 4340.45*	-W. breakwater, head.	34° 53.3′ N 128° 44.2′ E	**Fl.R.** period 6s	42 **13**	5	Red round concrete tower; 33.	
16848 *M 4340.3*	**Yangjiam Chwi.**	34° 53.7′ N 128° 45.1′ E	**Fl.W.** period 6s	197 **60**	**19**	White hexagonal concrete tower; 59.	
	CHANGSUNGP'O MAN:						
16852 *M 4338*	-E. breakwater, head.	34° 51.8′ N 128° 43.7′ E	**Fl.R.** period 5s	36 **11**	5	Red round concrete tower; 26.	
16856 *M 4340*	-W. breakwater, head.	34° 51.8′ N 128° 43.7′ E	**Fl.G.** period 5s	39 **12**	5	White round concrete tower; 20.	
16857 *M 4337.3*	Chisepo Hang, detetched breakwater, E. head.	34° 49.9′ N 128° 42.6′ E	**Fl.R.** period 5s	39 **12**	5	Red octagonal concrete tower; 29.	
16857.5 *M 4337.4*	-W. head.	34° 50.1′ N 128° 42.3′ E	**Fl.G.** period 5s	39 **12**	5	White octagonal concrete tower; 29.	
16860 *M 4336*	**Soi Mal.**	34° 47.3′ N 128° 44.3′ E	**Fl.W.** period 20s	394 **120**	**27**	White round tower; 33.	Visible 207°-038°. **Siren:** 2 bl. ev. 60s. (bl. 0.4s, si. 5s, bl. 0.4s, si. 47s).
16861 *M 4335.4*	Tadaetap'o Hang, E. breakwater, head.	34° 43.8′ N 128° 37.7′ E	**Fl.R.** period 5s	42 **13**	5		
16861.5 *M 4335.6*	-W. breakwater, head.	34° 43.8′ N 128° 37.8′ E	**Fl.G.** period 5s	46 **14**	5		

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			SOUTH KOREA				
16862 *M 4335*	Bugyeo Do.	34° 41.0′ N 128° 46.5′ E	**Fl.(2)W.** period 5s	79 **24**	8	ISOLATED DANGER BRB, tower, topmark; 75.	
	RACON		**B(– • • •)** period 60s		10		(3m).
16864 *M 4334*	**Hong Do.**	34° 32.2′ N 128° 44.0′ E	**Fl.W.** period 10s	384 **117**	**25**	White round concrete tower; 25.	
	RACON		**Y(– • – –)** period 60s		10		(3cm).
16868 *M 4322.7*	Chwasari Do.	34° 33.4′ N 128° 20.5′ E	**Fl.W.** period 4s	187 **57**	8	White octagonal concrete tower; 43.	
16872 *M 4332*	**Somaemul To.**	34° 37.2′ N 128° 32.9′ E	**Fl.W.** period 13s	298 **91**	**26**	White round concrete tower; 43.	Visible 235°-285°, 295°-305°, 320°-170°. **Siren:** 1 bl. ev. 50s (bl. 5s, si. 45s).
16873 *M 4334.2*	Maemuldo Hang, N. breakwater.	34° 39.0′ N 128° 34.4′ E	**Fl.R.** period 5s	46 **14**	5	Red round concrete tower; 26.	
16873.1 *M 4334.21*	-E. breakwater.	34° 38.9′ N 128° 34.5′ E	**Fl.G.** period 5s	33 **10**	6	White round tower; 26.	
16874 *M 4333*	Goam Island.	34° 29.8′ N 128° 28.5′ E	**Fl.W.** period 6s	98 **30**	8	White round concrete tower; 23.	
	RACON		**M(– –)**		10		(3 & 10cm).
16875 *M 4332.5*	Sojido.	34° 38.5′ N 128° 28.3′ E	**Fl.W.** period 6s	141 **43**	8	White round concrete tower; 23.	
16875.5 *M 4331.75*	Taebyongdaedo.	34° 40.9′ N 128° 37.6′ E	**Fl.G.** period 5s	85 **26**	5	PORT (B) G, tower, topmark; 75.	Visible 225°-089°. **Horn:** 1 bl. ev. 60s (bl. 7s, si. 53s).
16876 *M 4331.7*	Sokmun-do.	34° 41.6′ N 128° 36.0′ E	**Fl.W.** period 5s	56 **17**	8	White round concrete tower; 25.	
16876.5 *M 4331.85*	Kaodo.	34° 40.9′ N 128° 34.8′ E	**Fl.W.** period 6s	56 **17**	8	White round concrete tower; 36.	
16876.7	Oyudo.	34° 39.5′ N 128° 34.4′ E	**Fl.W.** period 6s	49 **15**	8	White round concrete tower; 39.	
16876.9 *M 4331.55*	Daepo Hang, breakwater.	34° 43.0′ N 128° 35.1′ E	**Fl.R.** period 4s	36 **11**	5	Red round concrete tower; 27.	
16877 *M 4331.6*	Mangsangak.	34° 42.2′ N 128° 34.6′ E	**Fl.W.** period 5s	49 **15**	8	White round concrete tower; 25.	
16879 *M 4330.2*	Kajo-do, breakwater.	34° 57.5′ N 128° 30.0′ E	**Fl.W.** period 5s	26 **8**	8	White round metal tower; 15.	
16879.3 *M 4330.3*	Dolkkeuchyeo.	34° 57.6′ N 128° 30.0′ E	**Fl.(2)W.** period 10s	33 **10**	8	ISOLATED DANGER BRB, tower, topmark; 33.	
16879.5 *M 4330.15*	Gajo Do Bridge.	34° 55.6′ N 128° 31.6′ E	**F.W.**	89 **27**	7	White round daymark, red stripes.	F.R. 26m 8M and F.G. 26m 7M mark width of navigable span. F.Y. 26m 7M mark bridge pilings.
16880 *M 4330*	Songp'o Hang, E. breakwater.	34° 55.4′ N 128° 31.5′ E	**Fl.G.** period 6s	33 **10**	5	White round concrete tower; 27.	
16880.5 *M 4330.1*	-W. breakwater.	34° 55.3′ N 128° 31.4′ E	**Fl.R.** period 6s	33 **10**	5	Red round concrete tower; 26.	
16881 *M 4329.5*	Norusom.	34° 55.3′ N 128° 31.2′ E	**Fl.G.** period 5s	30 **9**	5	PORT (B) G, beacon, topmark; 43.	
16882 *M 4325.1*	Iun Hang, breakwater.	34° 48.1′ N 128° 26.1′ E	**Fl.G.** period 4s	39 **12**	5	White round concrete tower; 26.	
16884 *M 4322.9*	Pu-do.	34° 46.2′ N 128° 22.0′ E	**Fl.W.** period 5s	151 **46**	8	White round concrete tower; 33.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			SOUTH KOREA				
16886 *M 4322.85*	Ch'u Do.	34° 45.3′ N 128° 18.3′ E	**Fl.W.** period 6s	463 **141**	8	White round concrete tower; 39.	
16886.5 *M 4322.82*	Hangnim Hang, breakwater.	34° 45.0′ N 128° 24.5′ E	**Fl.G.** period 4s	39 **12**	5	White round concrete tower; 26.	
16886.7 *M 4331.15*	Hapo Hang, breakwater.	34° 45.6′ N 128° 28.7′ E	**Fl.G.** period 4s	39 **12**	5	White round concrete tower; 26.	
16887 *M 4322.87*	Tongyeong, breakwater No A.	34° 45.9′ N 128° 23.2′ E	**Fl.G.** period 4s	16 **5**	6	White round metal tower; 13.	
16887.1 *M 4322.875*	-No B.	34° 45.9′ N 128° 23.1′ E	**Fl.R.** period 4s	20 **6**	5	Red round metal tower; 13.	
16887.5 *M 4331.515*	Naehang Hang, breakwater.	34° 44.0′ N 128° 27.6′ E	**Fl.R.** period 4s	39 **12**	5	Red round concrete tower; 26.	
16888 *M 4322.8*	Jeo Do, on islet close W. of Jo Do.	34° 44.9′ N 128° 23.5′ E	**Fl.(2)W.** period 5s	36 **11**	8	ISOLATED DANGER BRB, tower, topmark; 52.	
16892 *M 4324*	Jo Do, N. end of island.	34° 45.3′ N 128° 25.5′ E	**Fl.W.** period 4s	180 **55**	8	White round concrete tower; 52.	Visible 066°-331°.
16893 *M 4322.75*	Ogokdo.	34° 43.2′ N 128° 25.6′ E	**Fl.W.** period 6s	200 **61**	8	White hexagonal concrete tower; 37.	
16894 *M 4322.72*	P'yongso.	34° 41.6′ N 128° 24.1′ E	**Fl.G.** period 4s	59 **18**	5	PORT (B) G, tower, topmark; 46.	
16896 *M 4331.5*	Kaksu-so.	34° 45.0′ N 128° 27.6′ E	**Fl.(2)W.** period 5s	49 **15**	8	ISOLATED DANGER BRB, tower, topmark; 43.	
	RACON		**C(– • – •)**		10		(3 & 10cm).
16898 *M 4330.7*	Pongam Do.	34° 45.0′ N 128° 33.6′ E	**Fl.W.** period 6s	72 **22**	8	White round concrete tower; 43.	
16899 *M 4330.8*	Pisando.	34° 48.8′ N 128° 29.4′ E	**Fl.G.** period 6s	33 **10**	5	Green round concrete tower; 36.	
16900 *M 4331*	Cheolcho, on islet close W. of Pongram Do.	34° 45.5′ N 128° 30.3′ E	**Fl.R.** period 4s	36 **11**	6	Red round concrete tower; 33.	
16902 *M 4331.25*	Changjakji Hang, breakwater.	34° 46.3′ N 128° 28.3′ E	**Fl.R.** period 4s	39 **12**	5	Red round concrete tower; 26.	
16908 *M 4325*	Hansan Hang.	34° 48.1′ N 128° 28.2′ E	**Fl.W.** period 4s	42 **13**	8	White round concrete tower, round concrete base; 39.	
16911 *M 4325.4*	Taech'o.	34° 49.6′ N 128° 27.7′ E	**Fl.R.** period 5s	33 **10**	5	STARBOARD (B) R, tower, topmark; 36.	
16912 *M 4326*	Panghwa Do.	34° 50.2′ N 128° 27.4′ E	**Fl.W.** period 4s	112 **34**	8	White round concrete tower; 49.	
16914 *M 4325.7*	Tonam Hang, breakwater, E. head.	34° 49.8′ N 128° 26.2′ E	**Fl.R.** period 4s	40 **12**	5	White octagonal concrete tower; 28.	
16915 *M 4325.8*	-W. head.	34° 49.8′ N 128° 26.1′ E	**Fl.(2)G.** period 6s	40 **12**	5	White octagonal concrete tower; 28.	
16915.5 *M 4325.55*	--Breakwater, W. head.	34° 49.8′ N 128° 26.1′ E	**Iso.Y.** period 4s	36 **11**	7	Red octagonal concrete tower; 26.	
16915.7 *M 4325.5*	---E. head.	34° 49.8′ N 128° 26.2′ E	**Fl.G.** period 4s	62 **19**	11	White concrete tower; 56.	
16916 *M 4326.5*	Tongyeong Hang, Changso.	34° 50.3′ N 128° 26.1′ E	**Q.(6)+L.Fl.W.** period 15s	39 **12**	8	S. CARDINAL YB, beacon, topmark; 43.	
16918 *M 4325.9*	-N. breakwater.	34° 50.5′ N 128° 26.5′ E	**Fl.R.** period 4s	42 **13**	5	Red round concrete tower; 34.	
16918.5 *M 4325.85*	-S. breakwater.	34° 50.4′ N 128° 26.5′ E	**Fl.G.** period 4s	42 **13**	5	White round concrete tower; 34.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			SOUTH KOREA				
16919 *M 4326.55*	Dongho-dong, breakwater, head.	34° 50.2′ N 128° 25.8′ E	**Fl.R.** period 5s	39 **12**	8	Red round concrete tower; 23.	
16920 *M 4323.6*	Tongyeong Hang, No 7.	34° 50.2′ N 128° 25.0′ E	**Fl.G.** period 5s	31 **9**	8	PORT (B) G, tower, topmark; 52.	
16924 *M 4323.8*	-No 8.	34° 50.2′ N 128° 25.0′ E	**Fl.R.** period 5s	26 **8**	8	STARBOARD (B) R, tower, topmark; 46.	
16928 *M 4327*	Saso.	34° 51.1′ N 128° 27.7′ E	**Fl.W.** period 6s	56 **17**	8	White octagonal concrete tower; 33.	
16929 *M 4326.3*	-Ch'ungmu Hang Approach.	34° 50.7′ N 128° 27.2′ E	**Fl.G.** period 5s	46 **14**	5	Green round concrete tower; 33.	
16929.9 *M 4340.973*	Yepo Hang, breakwater.	34° 56.4′ N 128° 25.6′ E	**Fl.G.** period 4s	36 **11**	5	White round concrete tower; 26.	
16930 *M 4340.97*	Kojedo.	34° 56.3′ N 128° 26.4′ E	**Fl.(2)W.** period 5s	33 **10**	8	ISOLATED DANGER BRB, tower, topmark; 33.	
16931 *M 4340.975*	Anjeong Hang, breakwater.	34° 57.0′ N 128° 26.0′ E	**Fl.R.** period 6s	49 **15**	7	Red round concrete tower; 36.	
16931.1 *M 4340.977*	-Dolphin.	34° 57.0′ N 128° 26.4′ E	**Fl.(4)Y.** period 8s	40 **12**	7	Yellow round fiberglass tower; 13.	**Horn:** 1 bl. ev. 20s (bl. 5s, si. 15s).
16932 *M 4329*	Myeongdeungdo.	34° 53.9′ N 128° 28.9′ E	**Fl.(2)W.** period 6s fl. 1s, ec. 5s	82 **25**	8	White round concrete tower; 43.	Visible 016°-302°.
16936 *M 4328*	Kyonnaeryang Haehyop (Hyonnaeryang Haehyop).	34° 53.0′ N 128° 28.5′ E	**Fl.G.** period 4s	39 **12**	6	PORT (B) G, tower, topmark; 43.	
16940	Tongyong bridge.	34° 49.9′ N 126° 24.4′ E	**Iso.W.** period 4s	66 **20**	7		
16942 *M 4323.1*	Shrirammal.	34° 49.8′ N 128° 23.1′ E	**Fl.W.** period 6s	56 **17**	8	White square concrete tower; 36.	
16952 *M 4323*	Pil To.	34° 51.2′ N 128° 20.5′ E	**Fl.W.** period 4s	43 **13**	8	White round concrete tower; 30.	
16953 *M 4323.055*	Tongeyoung, breakwater.	34° 51.4′ N 128° 23.0′ E	**Fl.R.** period 6s	46 **14**	5	Red round concrete tower; 33.	
16953.5	Kyobon-cho.	34° 42.3′ N 128° 18.4′ E	**Fl.(2)W.** period 5s	46 **14**	10	ISOLATED DANGER BRB, beacon, topmark; 46.	
	RACON		**K(– • –)**		10		(3 & 10cm).
16954 *M 4322.5*	Bong Do.	34° 39.9′ N 128° 18.3′ E	**Fl.W.** period 6s	351 **107**	8	White round concrete tower; 36.	
16956 *M 4322.6*	Yogji Do, W. breakwater.	34° 38.0′ N 128° 16.5′ E	**Fl.R.** period 4s	46 **14**	5	Red octagonal concrete tower; 27.	
16956.3 *M 4322.62*	-E. breakwater.	34° 37.9′ N 128° 16.5′ E	**Fl.G.** period 4s	36 **11**	5	White octagonal concrete tower; 27.	
16956.5 *M 4322.65*	-S. breakwater.	34° 37.9′ N 128° 16.4′ E	**Fl.(2)Y.** period 6s	33 **10**	7	White octagonal concrete tower; 26.	
16958 *M 4322.55*	Napjakyeo.	34° 39.3′ N 128° 20.5′ E	**Fl.(2)W.** period 5s	43 **13**	8	Black beacon, red band; 46.	
16960 *M 4322.4*	**Yokjido**, SW point.	34° 36.9′ N 128° 14.5′ E	**Fl.W.** period 6s	636 **194**	**19**	White round concrete tower; 43.	Visible 269°-146°.
16961 *M 4322.42*	Heukcho.	34° 36.4′ N 128° 15.6′ E	**Fl.(2)W.** period 5s	46 **14**	8	Black round concrete tower, red band; 46.	
16962 *M 4321.55*	Hadaeho Do.	34° 52.6′ N 128° 14.6′ E	**Fl.W.** period 6s	154 **47**	8	White round concrete tower; 39.	
16963 *M 4321.8*	Maekjonp'o Hang, W. breakwater.	34° 53.8′ N 128° 10.0′ E	**Fl.G.** period 6s	33 **10**	5	White round concrete tower; 23.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			SOUTH KOREA				
16963.5 *M 4321.83*	-Inner breakwater, head.	34° 54.0′ N 128° 10.0′ E	**Fl.R.** period 6s	36 **11**	5	Red square metal framework tower, triangular daymark point up; 26.	
16964 *M 4321*	**Yulpo Mal.**	34° 53.3′ N 128° 08.0′ E	**Fl.W.** period 6s	105 **32**	**20**	White round concrete tower; 16.	Visible 270°-132°.
16965 *M 4321.08*	Shinsu Hana, N. breakwater.	34° 54.2′ N 128° 04.2′ E	**Fl.G.** period 4s	36 **11**	5	White round concrete tower; 33.	
16966 *M 4321.12*	-S. breakwater.	34° 54.2′ N 128° 04.3′ E	**Fl.R.** period 4s	36 **11**	5	Red round concrete tower; 33.	
16968 *M 4320.45*	Chu Do.	34° 54.5′ N 128° 05.1′ E	**Q.(3)W.** period 10s	39 **12**	8	E. CARDINAL BYB, beacon, topmark; 29.	
16972 *M 4317*	Jeo Do.	34° 56.6′ N 128° 01.8′ E	**Fl.W.** period 6s	59 **18**	8	White round concrete structure; 33.	
16974 *M 4317.5*	Changso.	34° 56.1′ N 128° 02.5′ E	**Fl.G.** period 6s	43 **13**	5	PORT (B) G, beacon, topmark; 56.	
16974.2 *M 4318.2*	Taebang-Mogaesom bridge.	34° 55.7′ N 128° 03.0′ E	**Iso.W.** period 4s	115 **35**	7	Center light, red round daymark.	Iso.R. 4s 35m 5M and Iso.G. 4s 35m 4M mark width of navigable span. Iso.Y. 4s 33m 6M mark bridge pilings.
16974.4 *M 4318.4*	Mogaesom-Choyangsom bridge.	34° 55.6′ N 128° 02.8′ E	**Iso.W.** period 4s	85 **26**	7	Center light, red round daymark.	Iso.R. 4s 26m 5M and Iso.G. 4s 26m 4M mark width of navigable span. Iso.Y. 4s 25m 6M mark bridge pilings.
16974.6 *M 4317.9*	Choyangsom-Nukto bridge.	34° 55.4′ N 128° 02.5′ E	**Iso.W.** period 4s	75 **23**	7	Center light, white round daymark, red stripes.	Iso.R. 4s 23m 5M and Iso.G. 4s 23m 4M mark width of navigable span. Iso.Y. 4s 13m 6M mark piers.
16975 *M 4317.7*	Nuk-to, E. breakwater.	34° 55.5′ N 128° 02.4′ E	**Fl.G.** period 4s	36 **11**	6	White round steel tower; 26.	
16976 *M 4318*	-On rock, E. entrance to Chinju Man.	34° 55.5′ N 128° 03.2′ E	**Fl.R.** period 5s	42 **13**	10	Red round concrete tower; 43.	
16977 *M 4318.5*	Gwangseo.	34° 55.1′ N 128° 03.3′ E	**Q.W.**	39 **12**	8	N. CARDINAL BY, beacon, topmark; 39.	
16978 *M 4319.5*	Paman.	34° 54.7′ N 128° 04.0′ E	**Fl.(2)W.** period 5s	43 **13**	8	ISOLATED DANGER BRB, tower, topmark; 59.	
	SAMCHEONPO:						
16981 *M 4320.3*	-Daebang Hang, E. breakwater.	34° 55.7′ N 128° 03.5′ E	**Fl.R.** period 4s	39 **12**	5	Red round concrete tower; 30.	
16981.5 *M 4320.35*	--W. breakwater, head.	34° 55.6′ N 128° 03.5′ E	**Fl.G.** period 4s	39 **12**	6	White round concrete tower; 30.	
16983 *M 4320.42*	---S.	34° 55.5′ N 128° 03.9′ E	**Fl.(2)G.** period 6s	36 **11**	7	White round concrete tower; 33.	
16983.3 *M 4320.4*	-E. breakwater, head.	34° 55.4′ N 128° 04.0′ E	**Fl.(2)R.** period 6s	39 **12**	7	Red round concrete tower; 33.	
16984 *M 4319.2*	-Hang Nae, breakwater, head.	34° 55.2′ N 128° 04.2′ E	**Fl.R.** period 6s	39 **12**	9	Red round concrete tower; 30.	
16986 *M 4320.2*	-Shin Hang.	34° 55.0′ N 128° 05.0′ E	**Fl.R.** period 5s	49 **15**	8	Red round concrete tower; 33.	
16988 *M 4320.6*	--Range, front.	34° 54.7′ N 128° 06.3′ E	**F.R.**	98 **30**	7	Black square metal framework tower; 82.	Visible 018°-033°.
16992 *M 4320.61*	---Rear, 370 meters 025°24′ from front.	34° 54.9′ N 128° 06.4′ E	**F.R.**	128 **39**	7	Black square metal framework tower; 108.	Visible 018°-033°.

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			SOUTH KOREA				
16995 *M 4320.8*	-Breakwater, head.	34° 54.0′ N 128° 06.2′ E	**Fl.(2)R.** period 6s	33 **10**	5	Red round fiberglass tower; 23.	
16999 *M 4319.2*	-W. breakwater, head.	34° 55.3′ N 128° 04.5′ E	**Fl.R.** period 6s	43 **13**	9	Red round concrete tower; 30.	
17000 *M 4319*	-Hang Do.	34° 55.4′ N 128° 04.7′ E	**Fl.W.** period 4s	49 **15**	8	White round concrete tower; 26.	
17001 *M 4321.13*	Chongnyang Hang.	34° 51.4′ N 128° 03.6′ E	**Fl.R.** period 6s	49 **15**	5	Red octagonal concrete tower; 36.	
17004 *M 4321.2*	Jang Got, on SE point of Ch′angson Do.	34° 49.8′ N 128° 05.2′ E	**Fl.W.** period 5s	118 **36**	8	White round fiberglass tower; 23.	
17008 *M 4321.5*	Saryang-do.	34° 51.5′ N 128° 12.2′ E	**Fl.W.** period 5s	52 **16**	8	White round concrete tower; 33.	
17008.1 *M 4321.495*	Donji Hang.	34° 50.2′ N 128° 10.9′ E	**Fl.G.** period 6s	33 **10**	5	White round concrete tower; 26.	
17008.5 *M 4321.52*	Tonggang.	34° 50.5′ N 128° 14.2′ E	**Fl.W.** period 4s	197 **60**	8	White round concrete tower; 24.	
17010 *M 4321.58*	Neunryang Po, W. breakwater.	34° 48.5′ N 128° 14.6′ E	**Fl.G.** period 6s	33 **10**	5	White round concrete tower; 24.	
17010.5 *M 4321.59*	-E. breakwater.	34° 48.6′ N 128° 14.7′ E	**Fl.R.** period 6s	39 **12**	5	Red round concrete tower; 31.	
17012 *M 4321.45*	-Moksokto, entrance to bay.	34° 49.1′ N 128° 11.9′ E	**Fl.R.** period 4s	62 **19**	6	STARBOARD (B) R, tower, topmark; 33.	
17013 *M 4321.47*	Nammudo.	34° 46.7′ N 128° 12.9′ E	**Q.W.**	62 **19**	7	N. CARDINAL BY, tower, topmark; 56.	
17016 *M 4322.95*	Paek So.	34° 47.9′ N 128° 16.8′ E	**Fl.(2)W.** period 5s	52 **16**	8	Red octagonal concrete tower, black bands; 36.	
17018	Mulgon Hang, N. breakwater.	34° 47.8′ N 128° 03.5′ E	**Fl.R.** period 5s	46 **14**	5	Red round concrete tower; 31.	
17018.5	-S. breakwater.	34° 47.7′ N 128° 03.6′ E	**Fl.G.** period 5s	43 **13**	5	White octagonal concrete tower; 27.	
17020 *M 4321.4*	Suu Do, island, W. side.	34° 49.9′ N 128° 07.5′ E	**Fl.W.** period 7s	56 **17**	8	White round concrete tower; 32.	Visible 328°-192°.
17024 *M 4322.2*	Mijo Nam Hang, W. breakwater.	34° 42.3′ N 128° 02.9′ E	**Fl.G.** period 4s	33 **10**	5	White round concrete tower; 25.	
17028 *M 4322.3*	-S. breakwater.	34° 42.3′ N 128° 02.9′ E	**Fl.R.** period 4s	36 **11**	6	Red octagonal concrete tower; 29.	
17032 *M 4322*	Mijo Man, breakwater.	34° 42.9′ N 128° 02.8′ E	**Fl.G.** period 5s	29 **9**	5	White round concrete tower; 20.	
17036 *M 4321.6*	Jijog.	34° 50.0′ N 128° 00.0′ E	**Fl.R.** period 5s	30 **9**	5	STARBOARD (B) R, tower, topmark; 23.	
17040 *M 4315*	Koki To.	34° 56.8′ N 127° 58.0′ E	**Fl.W.** period 5s	89 **27**	8	White round concrete tower; 33.	
17044 *M 4314*	Namhae Do, N. end of island.	34° 56.8′ N 127° 53.5′ E	**Fl.(2)W.** period 6s	33 **10**	8	White round concrete tower; 23.	Visible 075°-282°.
17046 *M 4311.8*	Wado Island.	34° 56.4′ N 127° 51.4′ E	**Fl.W.** period 5s	62 **19**	8	White round concrete tower; 33.	Visible 326°-261°.
17047 *M 4311.78*	Noryang.	34° 56.1′ N 127° 51.3′ E	**Fl.R.** period 5s	30 **9**	5	STARBOARD (B) R, beacon, topmark; 43.	
17048 *M 4311.6*	Wa Gi.	34° 55.4′ N 127° 50.4′ E	**Fl.(2)G.** period 6s	23 **7**	4	PORT (B) G, tower, topmark.	
17050 *M 4311.65*	Hadong Hukki.	34° 56.7′ N 127° 50.0′ E	**Q.(9)W.** period 15s	26 **8**	8	W. CARDINAL YBY, tower, topmark; 23.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			SOUTH KOREA				
17051 *M 4311.7*	-Seaberth A.	34° 56.6′ N 127° 49.5′ E	**Fl.Y.** period 4s	33 **10**	6	Yellow metal post; 16.	**Horn:** 1 bl. ev. 50s (bl. 5s, si. 45s).
17051.5 *M 4311.75*	--B.	34° 56.8′ N 127° 49.6′ E	**Fl.Y.** period 4s	33 **10**	6	Yellow metal post; 16.	
17053	Noryang sudo Bridge, N. span.	34° 56.6′ N 127° 52.3′ E	**F.W.**	77 **23**	7	White round daymark, red stripes.	F.R., F.G. and F.Y. mark bridge pilings.
17053.5	-S. span.	34° 56.4′ N 127° 52.5′ E	**F.W.**	77 **23**	7	White round daymark, red stripe.	F.R., F.G and F.Y. mark bridge pilings.
17056 *M 4311*	Umo So.	34° 53.2′ N 127° 48.8′ E	**Fl.R.** period 6s	33 **10**	8	Red round concrete tower; 46.	**AIS** (MMSI No 994403109).
17058.1 *M 4311.73*	Korea Electric Pier, seaberth.	34° 56.5′ N 127° 49.3′ E	**Fl.(4)Y.** period 8s	39 **12**	6	Yellow metal post; 13.	
17060 *M 4311.4*	Umsu Do.	34° 54.6′ N 127° 49.5′ E	**Fl.R.** period 5s	32 **10**	6	Red round concrete tower, triangular daymark point up; 30.	
17063 *M 4308.15*	Jakdo.	34° 25.0′ N 127° 54.2′ E	**Fl.W.** period 10s	390 **119**	8	White four-sided metal tower; 66.	**AIS** (MMSI No 994402946).
17064 *M 4308*	**Sorido.**	34° 24.7′ N 127° 48.0′ E	**Fl.W.** period 12s	269 **82**	**26**	White four-sided concrete tower; 30.	Visible 231°-110°. **Siren:** 1 bl. ev. 54s (bl. 5s, si. 49s).
17066 *M 4308.05*	-W. side.	34° 25.8′ N 127° 47.0′ E	**Fl.G.** period 6s	36 **11**	3	Green round concrete tower; 36.	
17068 *M 4307.3*	Kumong-am.	34° 28.4′ N 127° 46.0′ E	**Fl.W.** period 5s	69 **21**	8	White octagonal concrete tower; 33.	**AIS** (MMSI No 994402911).
17069 *M 4307.4*	Ando Hang, E. breakwater.	34° 28.6′ N 127° 47.7′ E	**Fl.R.** period 5s	43 **13**	9	Red octagonal concrete tower; 26.	
17069.1 *M 4307.45*	-W. breakwater.	34° 28.6′ N 127° 47.6′ E	**Fl.G.** period 5s	43 **13**	9	White octagonal concrete tower; 26.	
17069.5	Suri Do.	34° 27.8′ N 127° 48.3′ E	**Q.W.**	39 **12**	8	N. CARDINAL BY, beacon, topmark; 26.	
17072 *M 4307.5*	An Do, (Paekkum).	34° 29.8′ N 127° 49.6′ E	**Fl.W.** period 6s	71 **22**	8	White round concrete tower; 30.	**AIS** (MMSI No 994402913).
17073 *M 4307.28*	Yeosu, Geumodo.	34° 29.5′ N 127° 45.8′ E	**Q.(9)W.** period 15s	39 **12**	8	W. CARDINAL YBY, tower, topmark; 36.	
17073.1 *M 4307.27*	-Wolpo.	34° 30.0′ N 127° 45.1′ E	**Q.(9)W.** period 15s	43 **13**	8	W. CARDINAL YBY, tower, topmark; 46.	
17074 *M 4307.7*	Soyu.	34° 31.6′ N 127° 46.5′ E	**Q.(3)W.** period 10s	39 **12**	8	E. CARDINAL BYB, tower, topmark; 43.	
17074.5 *M 4307.75*	Huso.	34° 31.9′ N 127° 47.0′ E	**Fl.(2)W.** period 5s	49 **15**	8	ISOLATED DANGER BRB, beacon, topmark; 43.	
17075 *M 4307.8*	Sohoenggando.	34° 33.8′ N 127° 46.0′ E	**Fl.W.** period 6s	237 **72**	8	White octagonal concrete tower; 33.	**AIS** (MMSI No 994402945).
17080 *M 4308.2*	Ganyeo Am.	34° 17.3′ N 127° 51.3′ E	**Fl.W.** period 6s	98 **30**	8	White octagonal concrete tower; 59.	**AIS** (MMSI No 994402942).
	RACON		**Y(– • – –)**		10		(3 & 10cm).
17084 *M 4308.3*	Sejondo.	34° 29.9′ N 128° 05.0′ E	**Fl.W.** period 12s	73 **22**	8	White round concrete tower; 39.	
	RACON		**G(– – •)**		10		(3 & 10cm).
17088 *M 4308.35*	Gudoi Seo.	34° 37.3′ N 128° 07.1′ E	**Fl.W.** period 6s	105 **32**	8	White round concrete tower; 46.	
17090 *M 4322.35*	Mijo-gundo.	34° 40.8′ N 128° 03.7′ E	**Fl.R.** period 5s	66 **20**	5	Red round concrete tower; 49.	Visible 096°30′-248°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			SOUTH KOREA				
17092 *M 4308.9*	Baekseo.	34° 37.9′ N 127° 59.6′ E	**Fl.W.** period 6s	105 **32**	8	White octagonal concrete tower; 49.	**AIS** (MMSI No 994403108).
	RACON		**Q(– – • –)**		10		(3 & 10cm).
17096 *M 4308.94*	Kumsan.	34° 42.8′ N 127° 41.7′ E	**Fl.(2)W.** period 6s	203 **62**	8	White round concrete tower; 30.	Visible 298°-089°.
17100 *M 4308.8*	**Dae Do.**	34° 40.6′ N 127° 56.9′ E	**Fl.W.** period 10s	207 **63**	**16**	White octagonal concrete tower; 49.	Visible 251°-168°. **AIS** (MMSI No 994403107).
17100.5 *M 4308.97*	Pam-som.	34° 36.5′ N 127° 48.0′ E	**Q.(3)W.** period 10s	49 **15**	8	E. CARDINAL BYB, tower, topmark; 56.	
17101 *M 4308.98*	Taedan.	34° 39.6′ N 127° 48.4′ E	**Fl.W.** period 4s	108 **33**	8	White octagonal concrete tower; 43.	**AIS** (MMSI No 994402944).
17102	*Oechi-do.*	34° 41.7′ N 127° 53.1′ E	**Fl.(2)W.** period 5s			ISOLATED DANGER BRB, pillar, topmark.	
	RACON		**N(– •)**		10		(3 & 10cm).
17104 *M 4309*	Yosu Hang.	34° 42.2′ N 127° 47.3′ E	**Fl.W.** period 5s	377 **115**	8	White octagonal concrete tower; 29.	Visible 176°-352°. **AIS** (MMSI No 994402912).
17108 *M 4309.4*	U Am.	34° 43.0′ N 127° 47.9′ E	**Fl.(2)W.** period 5s	43 **13**	8	ISOLATED DANGER BRB, tower, topmark; 23.	**AIS** (MMSI No 994402920).
17112 *M 4310.2*	P'yongsan.	34° 45.0′ N 127° 50.3′ E	**Fl.W.** period 5s	194 **59**	11	White round concrete tower; 27.	Visible 320°-166°.
17116 *M 4310*	**Odong Do.**	34° 44.7′ N 127° 46.1′ E	**Fl.W.** period 10s	200 **61**	**25**	White octagonal concrete tower; 89.	**AIS** (MMSI No 994403321). **Horn:** 1 bl. ev. 30s (bl. 5s, si. 25s).
17120 *M 4309.8*	Yang Am.	34° 44.6′ N 127° 46.7′ E	**Fl.(2)W.** period 10s	39 **12**	10	ISOLATED DANGER BRB, tower, topmark; 56.	
17123 *M 4310.63*	Tunpyongtan.	34° 47.3′ N 127° 46.0′ E	**Fl.(2)W.** period 5s	49 **15**	8	ISOLATED DANGER BRB, tower, topmark; 33.	**AIS** (MMSI No 994402918).
17124 *M 4310.6*	Sam Gi.	34° 47.9′ N 127° 49.0′ E	**Fl.(2)W.** period 5s	33 **10**	8	ISOLATED DANGER BRB, tower, topmark.	
	RACON		**K(– • –)**		11		(3 & 10cm).
17126 *M 4310.3*	Yosu Hang, N. breakwater.	34° 45.1′ N 127° 45.7′ E	**Fl.R.** period 4s	59 **18**	9	Red metal pipe; 59.	
17134 *M 4310.5*	-Bridge, center span.	34° 43.8′ N 127° 44.0′ E	**Fl.W.** period 4s	66 **20**	7		Fl.R. 21m 7M, Fl.G. 21m 7M mark navigable span and Fl.Y. 21m 7M mark bridge pilings.
17135 *M 4310.52*	Chongpo, breakwater, head.	34° 44.2′ N 127° 44.8′ E	**Fl.R.** period 5s	46 **14**	9	Red round metal tower; 33.	**AIS** (MMSI No 994402914).
17136 *M 4310.57*	Changgundo.	34° 44.0′ N 127° 44.1′ E	**Fl.(2)W.** period 6s	36 **11**	8	White octagonal concrete tower; 33.	
17140 *M 4310.54*	Yosu Gu Hang.	34° 44.3′ N 127° 44.0′ E	**Fl.G.** period 4s	33 **10**	5	White round fiberglass tower; 23.	**AIS** (MMSI No 994402947).
17144 *M 4310.7*	Sangtan.	34° 51.4′ N 127° 48.4′ E	**Fl.(2)W.** period 6s	36 **11**	8	White round concrete tower; 23.	Visible 346°-204°.
17148 *M 4308.72*	-Ya Do.	34° 43.3′ N 127° 42.7′ E	**Fl.R.** period 4s	36 **11**	6	Red octagonal concrete tower; 33.	
17152 *M 4308.74*	-Ammog Do.	34° 42.6′ N 127° 41.7′ E	**Fl.W.** period 5s	79 **24**	8	White round concrete tower; 23.	
17153 *M 4307.25*	Tolsan-do Approaches.	34° 29.5′ N 127° 45.8′ E	**Q.(9)W.** period 15s	30 **9**	8	W. CARDINAL YBY, beacon, topmark; 46.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			SOUTH KOREA				
17154 *M 4307.1*	Hwataedo.	34° 34.6′ N 127° 44.5′ E	**Fl.G.** period 6s	36 **11**	5	PORT (B) G, beacon, topmark; 39.	
17156 *M 4308.4*	Taehoenggan Do.	34° 34.9′ N 127° 45.1′ E	**Q.(9)W.** period 15s	33 **10**	8	W. CARDINAL YBY, tower, topmark; 30.	
17160 *M 4308.5*	Kumsong.	34° 35.5′ N 127° 45.3′ E	**Fl.R.** period 6s	33 **10**	5	Green round concrete tower; 36.	
17161 *M 4308.45*	Jakgeum Hang.	34° 35.5′ N 127° 45.9′ E	**Fl.R.** period 5s	49 **15**	5	Red round concrete tower; 33.	**AIS** (MMSI No 994402915).
17165 *M 4308.55*	Hajungdo.	34° 36.8′ N 127° 42.7′ E	**Fl.R.** period 4s	33 **10**	5	Red beacon; 33.	
17166 *M 4308.58*	Dolsan Hang, E. breakwater.	34° 36.8′ N 127° 43.3′ E	**Fl.R.** period 5s	33 **10**	5	Red round metal tower; 23.	**AIS** (MMSI No 994402948).
17170 *M 4310.72*	-Tanker terminal No 1.	34° 51.5′ N 127° 46.5′ E	**Fl.Y.** period 4s	23 **7**	7	SPECIAL Y, tower, "X" topmark; 13.	**Horn:** 1 bl. ev. 30s (bl. 5s, si. 25s).
17171 *M 4310.74*	--No 2.	34° 51.7′ N 127° 46.4′ E	**Fl.Y.** period 4s	23 **7**	7	SPECIAL Y, tower, "X" topmark; 13.	
17173 *M 4310.65*	Seaberth, S.	34° 50.5′ N 127° 46.9′ E	**Fl.Y.** period 4s	46 **14**	6	Yellow metal tower; 23.	
17173.5 *M 4310.66*	-N.	34° 50.9′ N 127° 46.9′ E	**Fl.(4)Y.** period 8s		8	Red metal pipe; 23.	**Horn:** 1 bl. ev. 25s (bl. 5s, si. 20s).
17174 *M 4310.86*	Myodo Sudo, fog signal.	34° 51.8′ N 127° 44.1′ E				Dolphin.	**Horn:** 1 bl. ev. 20s (bl. 5s, si. 15s).
17174.5 *M 4310.88*	-Honamjongyu, fog signal.	34° 51.8′ N 127° 43.6′ E					**Horn:** 1 bl. ev. 20s (bl. 5s, si. 15s).
17188 *M 4310.9*	-Myodo Sudo (Honam Hwaryok) Range, front.	34° 51.2′ N 127° 44.2′ E	**F.R.**	79 **24**	10	White metal framework tower; 66.	Visible 176°-184°.
17192 *M 4310.91*	--Rear, 160 meters 180° from front.	34° 51.1′ N 127° 44.2′ E	**F.R.**	98 **30**	10	White metal framework tower; 85.	Visible 176°-184°.
17196 *M 4310.94*	-Honam Hwaryok Range, front.	34° 51.2′ N 127° 44.0′ E	**F.R.**	92 **28**	10	White round metal tower; 79.	Visible 197°-205°.
17200 *M 4310.95*	--Rear, 115 meters 201° from front.	34° 51.2′ N 127° 44.0′ E	**F.R.**	102 **31**	10	White metal framework tower; 89.	Visible 197°-205°.
17200.2 *M 4310.96*	Kwangyang, A.	34° 51.7′ N 127° 42.4′ E	**Fl.Y.** period 4s	26 **8**	7	Yellow metal post; 13.	**Horn:** 1 bl. ev. 30s (bl. 5s, si. 25s).
	RACON		**K(– • –)** period 60s		10		(3cm).
17200.5 *M 4310.97*	-B.	34° 51.7′ N 127° 42.3′ E	**Fl.Y.** period 4s	20 **6**	7	Yellow metal post; 13.	
17200.8 *M 4310.82*	Kwangyang Passage III.	34° 52.9′ N 127° 45.6′ E	**Fl.(2)W.** period 5s	59 **18**	10	ISOLATED DANGER BRB, tower, topmark; 79.	
	RACON		**Z(– – • •)**		10		(3 & 10cm).
17205	Kwangyang Hang Bridge.	34° 57.6′ N 127° 45.2′ E	**F.W.**	56 **17**	7	Red round daymark, white stripes.	F.R. 17m 5M and F.G. 17m 4M mark width of navigable span. F.Y. 17m 6M mark bridge pilings.
17205.1	Somjindaegyo Bridge.	34° 57.2′ N 127° 46.3′ E	**F.W.**	33 **10**	7	Red round daymark, white stripes.	F.R. 10m 7M and F.G. 10m 4M mark width of navigable span. F.Y. 10m 6M mark bridge pilings.
17211 *M 4308.75*	Mamuram.	34° 43.0′ N 127° 41.0′ E	**Fl.(2)W.** period 5s	43 **13**	8	ISOLATED DANGER BRB, beacon, topmark; 43.	

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			SOUTH KOREA				
17212 *M 4308.6*	Yo Ch'o.	34° 41.3′ N 127° 41.9′ E	**Fl.(2)W.** period 5s	43 **13**	8	ISOLATED DANGER BRB, tower, topmark; 43.	**AIS** (MMSI No 994402955).
	RACON		**N(– •)**		10		(3 & 10cm).
17215	Horido.	34° 35.2′ N 127° 40.6′ E	**Q.W.**	40 **12**	8	N. CARDINAL BY, pillar, topmark; 26.	
17216 *M 4306*	**Paegya Do,** E. end of island.	34° 36.5′ N 127° 39.3′ E	**Fl.W.** period 20s	184 **56**	**21**	White round concrete tower; 78.	Visible 157°-070°. **Horn:** 1 bl. ev. 40s.
17218 *M 4305.5*	Yoja Man.	34° 47.2′ N 127° 31.5′ E	**Fl.(2)W.** period 5s	46 **14**	8	ISOLATED DANGER BRB, tower, topmark; 43.	
17218.1 *M 4305.45*	Soyoja-do.	34° 45.0′ N 127° 30.9′ E	**Fl.W.** period 6s	49 **15**	8	White round concrete tower; 26.	
17218.2 *M 4305.43*	Chuk-to.	34° 45.0′ N 127° 26.8′ E	**Fl.(2)W.** period 5s	36 **11**	8	ISOLATED DANGER BRB, beacon, topmark; 36.	
17218.3 *M 4305.44*	Yeojaman Jangdo.	34° 46.5′ N 127° 26.6′ E	**Q.(6)+L.Fl.W.** period 15s	31 **10**	8	S. CARDINAL YB, beacon, topmark; 31.	
17219 *M 4305.4*	Chokkum-do.	34° 37.6′ N 127° 31.5′ E	**Fl.W.** period 6s	62 **19**	8	White octagonal concrete tower; 36.	
17219.1 *M 4305.36*	Jobal Sudo.	34° 37.2′ N 127° 31.6′ E	**Q.(6)+L.Fl.W.** period 15s	26 **8**	8	S. CARDINAL YB, beacon, topmark; 46.	
17219.2 *M 4305.38*	Hagwado S.	34° 37.4′ N 127° 32.0′ E	**Q.(6)+L.Fl.W.** period 15s	36 **11**	8	S. CARDINAL YB, beacon, topmark; 33.	
17220 *M 4305*	Nang Do.	34° 35.7′ N 127° 33.0′ E	**Fl.W.** period 5s	69 **21**	8	White square concrete tower; 30.	Visible 233°-097°. **AIS** (MMSI No 994402943).
17221 *M 4305.2*	Nangdo Hang, entrance.	34° 36.0′ N 127° 31.9′ E	**Fl.R.** period 4s	59 **18**	5	Red octagonal concrete tower; 43.	
17221.1 *M 4305.3*	-Inner breakwater, N. end.	34° 36.2′ N 127° 32.1′ E	**Fl.Y.** period 6s	39 **12**	7	Yellow round metal tower; 26.	
17221.2 *M 4305.25*	--S. end.	34° 36.1′ N 127° 32.1′ E	**Fl.G.** period 4s	36 **11**	5	White round concrete tower; 23.	
17222 *M 4305.6*	Changgu Do.	34° 35.6′ N 127° 36.5′ E	**Fl.R.** period 4s	43 **13**	5	STARBOARD (B) R, tower, topmark; 49.	
17224 *M 4307*	Koso.	34° 32.6′ N 127° 38.9′ E	**Fl.W.** period 6s	112 **34**	8	White octagonal concrete tower; 30.	**AIS** (MMSI No 994402956).
17226 *M 4307.05*	Yongdu-san.	34° 32.3′ N 127° 41.8′ E	**Fl.W.** period 6s	49 **15**	8	White round concrete tower; 36.	Visible 325°-247°. **AIS** (MMSI No 994402916).
17227 *M 4299.72*	Chijuk-to.	34° 26.5′ N 127° 19.0′ E	**Q.(6)W.+L.Fl.W.** period 15s	30 **9**	8	S. CARDINAL YB, beacon, topmark; 69.	
17228 *M 4297*	Sisan Do.	34° 22.6′ N 127° 16.4′ E	**Fl.W.** period 12s	121 **37**	8	White round concrete tower; 20.	**AIS** (MMSI No 994402934).
17229.2 *M 4297.2*	Shisando, W. breakwater.	34° 24.0′ N 127° 15.6′ E	**Fl.(3)G.** period 7s	36 **11**	5	White octagonal concrete tower; 27.	
17229.4 *M 4297.3*	-S. breakwater.	34° 23.8′ N 127° 16.0′ E	**Fl.G.** period 4s	52 **16**	5	White octagonal concrete tower; 33.	
17229.5 *M 4297.25*	-E. breakwater.	34° 23.8′ N 127° 15.9′ E	**Fl.R.** period 5s	36 **11**	5	Red octagonal concrete tower; 27.	
17230 *M 4297.4*	-N. end of island.	34° 24.9′ N 127° 14.6′ E	**Fl.W.** period 6s	177 **54**	8	White round concrete tower; 25.	Visible 351°-286°.
17230.2 *M 4298.55*	Gamdeungseo.	34° 30.3′ N 127° 14.3′ E	**Fl.(2)W.** period 5s	46 **14**	8	ISOLATED DANGER BRB, beacon, topmark; 33.	
17230.5 *M 4298.6*	Pungnam, W. breakwater.	34° 30.9′ N 127° 15.0′ E	**Fl.G.** period 5s	56 **17**	5	White octagonal concrete tower; 52.	**AIS** (MMSI No 994402939).

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			SOUTH KOREA				
17230.51 *M 4298.65*	-W. breakwater.	34° 31.0′ N 127° 15.0′ E	**Fl.R.** period 5s	36 **11**	5	Red round steel tower; 23.	
17230.52 *M 4298.66*	-N. breakwater.	34° 31.2′ N 127° 15.0′ E	**Fl.Y.** period 4s	36 **11**	7	Yellow metal framework tower; 23.	
17231 *M 4303*	-Chuinyo.	34° 27.2′ N 127° 33.8′ E	**Fl.(2)W.** period 5s	56 **17**	8	ISOLATED DANGER BRB, tower, topmark; 30.	**AIS** (MMSI No 994402954).
	-RACON		**M(– –)**		10		(3 & 10cm).
17231.1 *M 4302.5*	Taengmunam.	34° 26.3′ N 127° 35.0′ E	**Fl.(2)W.** period 10s	62 **19**	8	ISOLATED DANGER BRB, tower, topmark; 69.	**AIS** (MMSI No 994402952).
17232 *M 4300.4*	Sonjukdo.	34° 17.7′ N 127° 21.1′ E	**Fl.W.** period 15s	49 **15**	8	White round concrete tower; 33.	**AIS** (MMSI No 994402923).
17233 *M 4296.8*	Podunaji.	34° 18.8′ N 127° 14.4′ E	**Fl.(2)W.** period 6s	262 **80**	8	White round concrete tower; 33.	**AIS** (MMSI No 994402925).
17234 *M 4295.3*	Cho Do, N. breakwater.	34° 14.4′ N 127° 14.4′ E	**Fl.(2)G.** period 6s	59 **18**	9	White octagonal concrete tower; 43.	
17234.1 *M 4295.4*	-S. breakwater.	34° 14.5′ N 127° 14.5′ E	**Fl.R.** period 5s	36 **11**	5	Red round metal tower; 33.	
17236 *M 4295*	Cho Do.	34° 12.7′ N 127° 15.8′ E	**Fl.W.** period 6s	184 **56**	8	White round concrete tower; 24.	**AIS** (MMSI No 994402926).
17236.1 *M 4295.2*	-E.	34° 13.8′ N 127° 16.3′ E	**Q.(3)W.** period 10s	43 **13**	8	E. CARDINAL BYB, tower, topmark; 36.	
17240 *M 4294.5*	Yokman-do.	34° 10.8′ N 127° 21.2′ E	**Fl.W.** period 9s	69 **21**	8	White round concrete tower; 19.	**AIS** (MMSI No 994402933).
17243 *M 4293.5*	Sosambudo.	34° 02.6′ N 127° 21.7′ E	**Fl.W.** period 6s	131 **40**	8	White octagonal concrete tower; 43.	
17244 *M 4286*	**Geomun Do.**	34° 00.4′ N 127° 19.3′ E	**Fl.W.** period 15s	302 **92**	**23**	White hexagonal concrete tower; 108.	Visible 197°-109°. Every other flash intensified. **AIS** (MMSI No 004415510). **Horn:** 1 bl. ev. 50s (bl. 5s, si. 45s). **DGPS Station.**
17246 *M 4293*	Pan-yo.	34° 04.4′ N 127° 18.7′ E	**Fl.(2)W.** period 5s	49 **15**	8	ISOLATED DANGER BRB, beacon, topmark; 49.	**AIS** (MMSI No 994402951).
17248 *M 4292*	Nogsan Got.	34° 03.8′ N 127° 17.6′ E	**Fl.W.** period 6s	312 **95**	11	White octagonal concrete tower; 49.	Visible 075°-266°. **AIS** (MMSI No 994402929).
17249 *M 4286.25*	Komundo Hang Bridge, center span.	34° 01.4′ N 127° 18.5′ E	**F.W.**	36 **11**	7	White round daymark, red stripe.	F.R. 6m 8M and F.G. 6m 8M mark limits of navigable span. F.R. 7m 5M and F.G. 7m 4M mark limits of navigable span.
17250 *M 4290.2*	Komondo Hang, W. breakwater.	34° 01.7′ N 127° 18.5′ E	**Fl.G.** period 5s	33 **10**	6	White concrete column, 23.	
17251 *M 4286.5*	-E. breakwater.	34° 01.8′ N 127° 18.6′ E	**Fl.G.** period 4s	72 **22**	9	White octagonal concrete tower; 30.	
17252 *M 4287*	-S. breakwater.	34° 01.9′ N 127° 18.6′ E	**Fl.R.** period 4s	43 **13**	8	Red octagonal concrete tower; 29.	
17260 *M 4294*	Habaeg Do.	34° 03.3′ N 127° 35.0′ E	**Fl.W.** period 6s	525 **160**	10	White four-sided concrete tower; 25.	**AIS** (MMSI No 994402932).
	RACON		**G (– – •)**		10		(3 & 10cm).
17260.5 *M 4294.3*	Munseo.	34° 08.5′ N 127° 33.7′ E	**Fl.W.** period 4s	108 **33**	8	White octagonal concrete tower; 59.	**AIS** (MMSI No 994402931).
17261 *M 4300.55*	Muhakto.	34° 19.4′ N 127° 19.1′ E	**Fl.W.** period 6s	36 **11**	8	White round concrete tower; 23.	Visible 304°-048°. **AIS** (MMSI No 994402922).

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			SOUTH KOREA				
17262 *M 4300.5*	Chimudo.	34° 20.0′ N 127° 22.5′ E	**Fl.(2)W.** period 6s	78 **24**	8	White round tower; 56.	Visible 279°-076°. **AIS** (MMSI No 994402924).
17264 *M 4300.6*	Daeduyeog Seo.	34° 14.6′ N 127° 32.1′ E	**Fl.W.** period 5s	112 **34**	11	White round concrete tower; 20.	**AIS** (MMSI No 994402930).
17268 *M 4302*	Tanggeon Yeo.	34° 22.0′ N 127° 30.6′ E	**Fl.W.** period 10s	171 **52**	11	White octagonal concrete tower; 33.	
	RACON		**T(–)**		10		(3 & 10cm).
17272 *M 4304*	Naenaro Do.	34° 29.5′ N 127° 30.4′ E	**Fl.W.** period 5s	328 **100**	10	White round concrete tower; 16.	Visible 157°-333°. **AIS** (MMSI No 994402921).
17272.5 *M 4298.5*	Gyedo.	34° 29.5′ N 127° 14.1′ E	**Fl.W.** period 4s	46 **14**	8	White hexagonal concrete tower; 39.	
17273 *M 4299.75*	Naebal Hang.	34° 28.9′ N 127° 20.6′ E	**Fl.G.** period 5s	36 **11**	5	White octagonal concrete tower; 26.	**AIS** (MMSI No 994402937).
17274 *M 4299.8*	Balpo, breakwater.	34° 28.7′ N 127° 20.7′ E	**Fl.R.** period 5s	39 **12**	5	Red round metal tower; 33.	
17280 *M 4300*	Sayang Do.	34° 27.9′ N 127° 26.6′ E	**Fl.W.** period 5s	69 **21**	8	White octagonal concrete tower; 43.	**AIS** (MMSI No 994402935).
17280.4 *M 4300.2*	Naro Yolto Bridge, S. span.	34° 28.7′ N 127° 27.5′ E	**F.W.**	85 **26**	7	White circular daymark, red stripes.	F.G. 20m 5M and F.R. 20m 5M mark width of navigable span. F.Y. 6M mark piers. Passing prohibited. **Horn:** 1 bl. ev. 20s (bl. 5s, si. 15s).
17280.5 *M 4300.35*	-W. span.	34° 28.7′ N 127° 27.5′ E	**F.W.**	75 **23**	7	White circular daymark, red stripes.	F.R. 21m 5M and F.G. 21m 5M mark width of navigable span. F.Y. 6M mark piers. Passing prohibited.
17282 *M 4300.3*	Samam.	34° 29.5′ N 127° 26.3′ E	**Q.(9)W.** period 15s	43 **13**	8	W. CARDINAL YBY, tower, topmark; 39.	
17283	Naroyolto, bridge.	34° 31.2′ N 127° 26.0′ E	**F.G.**	39 **12**	4		
17284 *M 4301*	Oenaro Do, NW. side, W. breakwater.	34° 27.3′ N 127° 27.1′ E	**Fl.G.** period 6s	62 **19**	5	White octagonal metal tower; 43.	
17290 *M 4295.5*	**Hwangjedo.**	34° 11.6′ N 127° 04.8′ E	**Fl.W.** period 5s	171 **52**	**18**	White round concrete tower; 33.	Visible 152°-002°.
17291 *M 4295.7*	-W. end of island.	34° 11.4′ N 127° 04.3′ E	**Fl.(2)W.** period 6s	92 **28**	8	White hexagonal metal tower; 28.	Visible 334°-208°.
17291.3 *M 4295.5*	Satong Hang, S. breakwater.	34° 19.8′ N 127° 04.9′ E	**Fl.(2)R.** period 6s	39 **12**	5	Red octagonal concrete tower; 26.	
17291.35 *M 4295.82*	-N. breakwater.	34° 19.9′ N 127° 04.9′ E	**Fl.G.** period 5s	39 **12**	5	White octagonal concrete tower; 26.	
17292 *M 4296*	Sopto.	34° 18.0′ N 127° 07.9′ E	**Fl.W.** period 10s fl. 0.5s, ec. 9.5s	187 **57**	11	White octagonal concrete tower; 30.	Visible 197°-097°.
	RACON		**C(– • – •)**		10		(3 & 10cm).
17292.5 *M 4296.7*	Taebyong Pungdo.	34° 17.0′ N 127° 09.5′ E	**Fl.W.** period 6s	46 **14**	8	White round concrete tower; 31.	
17293 *M 4296.5*	Sadong Hang, W. breakwater.	34° 19.9′ N 127° 04.9′ E	**Fl.R.** period 4s	46 **14**	5	Red round concrete tower; 30.	
17294 *M 4297.8*	Sorokdo.	34° 30.4′ N 127° 05.7′ E	**Q.(9)W.** period 15s	36 **11**	8	W. CARDINAL YBY, beacon, topmark; 49.	**AIS** (MMSI No 994402953).
17295 *M 4298.9*	Sapyogido.	34° 31.5′ N 127° 06.7′ E	**Q.W.**	39 **12**	12	N. CARDINAL BY, tower, topmark; 36.	

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			SOUTH KOREA				
17298 *M 4299.2*	Nokdong Hang, N. breakwater.	34° 31.6′ N 127° 07.4′ E	**Fl.(2)G.** period 6s	39 **12**	9	White octagonal concrete tower; 27.	**AIS** (MMSI No 994402941).
17298.1 *M 4299.3*	-Nokdong Sorokdo Bridge.	34° 31.6′ N 127° 07.4′ E	**F.W.**	75 **23**	7	White circular daymark, red stripe.	F.R. 21m 4M and F.G. 21m 5M mark width of navigable span.
17298.5 *M 4299.6*	-S. breakwater.	34° 31.2′ N 127° 08.4′ E	**Fl.G.** period 5s	36 **11**	5	White octagonal concrete tower; 27.	**AIS** (MMSI No 994402940).
17299 *M 4299.4*	-N. detached breakwater, head.	34° 31.6′ N 127° 07.3′ E	**Fl.(2)R.** period 6s	36 **11**	8	Red octagonal concrete tower; 26.	
17299.1 *M 4299.61*	-SE. breakwater, head.	34° 31.0′ N 127° 09.1′ E	**Fl.R.** period 4s	56 **17**	6	Red round concrete tower; 39.	
17300.5 *M 4299.68*	Tungnyang Man, Sinhung.	34° 35.8′ N 127° 08.4′ E	**Fl.(2)W.** period 10s	43 **13**	7	ISOLATED DANGER BRB, beacon, topmark; 49.	
17300.8 *M 4297.65*	Yeonheungdo.	34° 28.1′ N 127° 05.2′ E	**Q.W.**	39 **12**	11	N. CARDINAL BY, tower, topmark; 33.	
17301 *M 4281.7*	Kumdang Do.	34° 27.3′ N 127° 01.4′ E	**Fl.W.** period 6s	164 **50**	8	White round concrete tower; 32.	Visible 035°-252°.
17301.5 *M 4279.6*	Odongdo.	34° 26.5′ N 127° 05.6′ E	**Fl.R.** period 5s	33 **10**	6	STARBOARD (B) R, tower, topmark; 36.	
17301.55 *M 4297.55*	Geumdangdo.	34° 25.6′ N 127° 04.6′ E	**Fl.G.** period 4s	36 **11**	8	PORT (B) G, beacon, topmark; 52.	
17301.6 *M 4297.5*	Geogeumdo, Monyeodo.	34° 25.8′ N 127° 13.1′ E	**Fl.(2)W.** period 5s	59 **18**	8	ISOLATED DANGER BRB, tower, topmark; 62.	
17302 *M 4281.6*	Kongdaejisan.	34° 22.1′ N 126° 56.9′ E	**Fl.W.** period 6s	92 **28**	8	White round concrete tower; 33.	Visible 230°-066°.
17302.1 *M 4281.58*	Hyeoldo.	34° 20.4′ N 126° 54.8′ E	**Fl.W.** period 4s	46 **14**	8	White round concrete tower; 30.	Visible 090°-010°.
17302.5 *M 4281.55*	Saengildo, E.	34° 20.4′ N 126° 54.8′ E	**Fl.W.** period 6s	141 **43**	8	White round concrete tower; 30.	
17303 *M 4281.65*	Tooduji.	34° 24.9′ N 126° 57.2′ E	**Fl.W.** period 4s	115 **35**	8	White round concrete tower; 32.	Visible 073°-350°.
17304 *M 4281*	Shinchi Do.	34° 18.9′ N 126° 47.6′ E	**Fl.W.** period 4s	72 **22**	9	White round concrete tower; 36.	
17304.5	Molso.	34° 19.2′ N 126° 46.3′ E	**Fl.G.** period 6s	36 **11**	5	PORT (B) G, beacon, topmark; 39.	Visible 095°-348°.
17305 *M 4280.8*	Wando Hang, breakwater.	34° 19.5′ N 126° 45.2′ E	**Fl.(2)R.** period 6s	62 **19**	5	Red square concrete tower; 49.	
17305.1 *M 4280.75*	Wandosinjido Bridge.	34° 20.1′ N 126° 44.9′ E	**F.W.**	135 **41**	7	White circular daymark, red stripes.	F.R. 39m 5M and F.G. 39m 5M mark width of navigable span. F.Y. 30m 6M mark piers.
17306 *M 4281.8*	Kkamaksom.	34° 26.8′ N 126° 48.7′ E	**Q.(6)+L.Fl.W.** period 15s	36 **11**	8	S. CARDINAL YB, tower, topmark; 36.	
17307 *M 4281.9*	Maryang Hang, E. breakwater.	34° 26.8′ N 126° 49.4′ E	**Fl.R.** period 4s	36 **11**	5	Red round concrete tower; 30.	
17307.5 *4 281.93*	-Center breakwater.	34° 26.8′ N 126° 49.1′ E	**Fl.G.** period 4s	36 **11**	5	White round concrete tower; 30.	
17308 *M 4281.4*	Sodogu Do.	34° 17.0′ N 127° 00.3′ E	**Fl.W.** period 6s	105 **32**	8	White round concrete tower; 16.	
17309 *M 4283.7*	Togudo.	34° 15.3′ N 127° 00.6′ E	**Fl.W.** period 5s	75 **23**	8	White octagonal concrete tower; 26.	
17310 *M 4281.5*	Toryongnangdo.	34° 18.4′ N 127° 00.0′ E	**Fl.W.** period 4s	66 **20**	8	White octagonal concrete tower; 27.	Visible 235°-080°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			SOUTH KOREA				
17312 *M 4281.2*	Mohwang Do.	34° 17.1′ N 126° 53.9′ E	**Fl.(2)W.** period 6s	164 **50**	8	White round concrete tower; 16.	
17316 *M 4284*	**Yoso Do.**	33° 59.3′ N 126° 55.1′ E	**Fl.W.** period 10s	292 **89**	**18**	White round concrete tower; 26.	Visible 046°-267°. **AIS** (MMSI No 994403002).
17316.5 *M 4285.1*	1W. breakwater.	33° 59.3′ N 126° 55.3′ E	**Fl.R.** period 5s	43 **13**	5	Red octagonal concrete tower; 26.	
17320 *M 4279.4*	Hoenggan Do.	34° 15.0′ N 126° 36.8′ E	**Fl.W.** period 4s	121 **37**	8	White round concrete tower; 16.	**AIS** (MMSI No 994403001).
17320.5 *M 4278.16*	Yongjon Hang, E. breakwater.	34° 20.1′ N 126° 36.2′ E	**Fl.R.** period 6s	30 **9**	5	Red hexagonal metal tower; 20.	
17321 *M 4278.17*	Haeman Pando.	34° 20.5′ N 126° 36.1′ E	**Fl.Y.** period 6s	26 **8**	7	Yellow post; 20.	
17321.5 *M 4280.7*	Tal to bridge, center span.	34° 24.1′ N 126° 37.6′ E	**F.W.**	16 **5**	7	White round daymark, red stripes.	F.R. 3m 5M F.G. 3m 4M mark limits of navigable span. F.R. 5m 5M and F.G. 5m 4M mark limits of navigable span.
17324 *M 4279.5*	Kaksi So.	34° 13.0′ N 126° 38.8′ E	**Fl.(2)W.** period 5s	30 **9**	8	ISOLATED DANGER BRB, tower, topmark; 27.	
17325 *M 4279.6*	Daeseo.	34° 12.1′ N 126° 38.7′ E	**Fl.R.** period 5s	39 **12**	6	STARBOARD (B) R, tower, topmark; 36.	
17326 *M 4279.7*	Sokto.	34° 10.5′ N 126° 37.5′ E	**Q.(3)W.** period 10s	33 **10**	8	E. CARDINAL BYB, tower, topmark; 36.	
17327 *M 4219.8*	Soan Hang, W. breakwater.	34° 09.2′ N 126° 37.9′ E	**Fl.R.** period 5s	46 **14**	5	Red octagonal concrete tower; 30.	
17327.1	-N. breakwater.	34° 09.2′ N 126° 37.9′ E	**Fl.G.** period 5s	43 **13**	5	Green octagonal concrete tower; 30.	
17328 *M 4280.5*	Meeruam.	34° 16.4′ N 126° 45.3′ E	**Fl.(2)W.** period 5s	39 **12**	8	ISOLATED DANGER BRB, tower, topmark; 43.	**AIS** (MMSI No 994403012).
17332 *M 4280*	Somo Do, NW. extremity of island.	34° 13.6′ N 126° 46.3′ E	**Fl.W.** period 4s	217 **66**	8	White round concrete structure; 26.	Visible 031°-276°.
17336 *M 4283.4*	Ch'ongsando, S. breakwater.	34° 10.9′ N 126° 51.1′ E	**Fl.R.** period 6s	36 **11**	5	Red round concrete tower; 26.	
17338 *M 4283.6*	-N. breakwater.	34° 10.9′ N 126° 51.1′ E	**Fl.G.** period 6s	49 **15**	5	White round concrete tower; 30.	Visible 039°-141°.
17340 *M 4282*	**Jagae Do.**	34° 05.9′ N 126° 36.1′ E	**Fl.W.** period 20s	351 **107**	**23**	White octagonal concrete tower; 69.	Visible 173°-109°. **AIS** (MMSI No 994402994). **Siren:** 1 bl. ev. 48s (bl. 8s, si. 40s). Sounds in answer to vessel's signals. Storm signal.
17341 *M 4283*	Churuncho.	34° 04.4′ N 126° 31.1′ E	**Fl.(2)W.** period 10s	66 **20**	8	Black four-sided metal tower, red bands; 79.	
	RACON		**C(– • – •)**		10		(3 &10 cm).
17344 *M 4277.8*	Heonggan Do.	34° 00.7′ N 126° 19.7′ E	**Fl.W.** period 10s	82 **25**	8	White round concrete tower; 33.	
	RACON		**N(– •)**		10		(3 & 10cm).
17348 *M 4276*	Chuja Kundo, on Sangchua Do.	33° 57.6′ N 126° 18.2′ E	**Fl.G.** period 5s	46 **14**	8	Green round metal pipe; 39.	
17352 *M 4277*	-Chuja Hang, breakwater, head.	33° 57.7′ N 126° 18.1′ E	**Fl.R.** period 4s	52 **16**	9	Red round concrete tower; 36.	
17356 *M 4277.5*	**Sangchujado.**	33° 57.3′ N 126° 17.8′ E	**Fl.W.** period 20s	479 **146**	**26**	White round concrete tower; 66.	Visible 135°-277°, 292°-113°. **AIS** (MMSI No 994403892). **Horn:** 1 bl. ev. 40s (bl. 5s, si. 35s).

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			SOUTH KOREA				
17360 *M 4275*	Chuja Do Kamegyeo.	33° 57.7′ N 126° 19.9′ E	**Fl.(2)W.** period 5s	49 **15**	8	ISOLATED DANGER BRB, tower, topmark; 36.	
17364 *M 4277.9*	Mang Do.	33° 59.7′ N 126° 23.6′ E	**Fl.(2)W.** period 8s	246 **75**	11	White round concrete tower; 26.	
17366 *M 4294.8*	-Breakwater, head.	33° 56.4′ N 126° 19.8′ E	**Fl.R.** period 5s	52 **16**	5	Red round concrete tower; 33.	
17366.5 *M 4274.85*	-S. breakwater.	33° 56.4′ N 126° 19.7′ E	**Fl.G.** period 6s	46 **14**	5	White round concrete tower; 33.	
17368 *M 4274.7*	Bang Seo.	33° 55.3′ N 126° 24.0′ E	**Fl.W.** period 6s	82 **25**	8	White round concrete tower; 36.	**AIS** (MMSI No 994403895).
17372 *M 4274.65*	Hwa Do.	33° 43.8′ N 126° 21.5′ E	**Fl.W.** period 5s	302 **92**	8	White four-sided concrete tower; 23.	
	RACON		**K(– • –)**		10		(3 & 10cm).
17374 *M 4265.65*	Sebaeyeo.	33° 30.4′ N 126° 27.1′ E	**Q.W.**	46 **14**	8	N. CARDINAL BY, tower, topmark; 52.	
17376 *M 4266*	**Sanchi.**	33° 31.3′ N 126° 32.8′ E	**Fl.W.** period 15s	236 **72**	**26**	White round concrete tower; 59.	Visible 070°-252°. Storm signals. **Horn:** 1 bl. ev. 50s (bl. 5s, si. 45s). **Radiobeacon** 755 meters SSW.
17380 *M 4266.5*	-Jeju Hang, breakwater, head.	33° 32.0′ N 126° 32.5′ E	**Fl.R.** period 5s	85 **26**	9	Red round concrete tower; 52.	
	-RACON		**C(– • – •)**		10		(3 & 10cm).
17381 *M 4267*	--Inner W. breakwater, head.	33° 31.4′ N 126° 32.1′ E	**Fl.(2)R.** period 6s	36 **11**	8	Red round metal column; 26.	
17382 *M 4267.5*	--Outer port, E. breakwater, head.	33° 31.8′ N 126° 32.5′ E	**Fl.G.** period 5s	66 **20**	9	White round concrete tower; 59.	
17391 *M 4265.9*	Daegot, E.	33° 31.1′ N 126° 30.1′ E	**Fl.R.** period 4s	36 **11**	5	Red round metal tower; 26.	
17392	-AVIATION LIGHT.	33° 30.8′ N 126° 29.1′ E	**Al.Fl.W.G.** period 5s	148 **45**			
17392.9 *M 4265.6*	Iho Hang.	33° 30.3′ N 126° 27.6′ E	**Fl.R.** period 4s	43 **13**	9	Red round metal tower; 30.	
			F.W.	30 **9**		Floodlit.	Illuminates Iho Hang beacon in direction 157°.
17393 *M 4265.7*	-Dudo Hang, N. breakwater.	33° 30.5′ N 126° 27.9′ E	**Fl.G.** period 6s	50 **15**	8	White round concrete tower; 33.	
17393.5 *M 4265.8*	-S. breakwater.	33° 30.6′ N 126° 27.9′ E	**Fl.R.** period 6s	62 **19**	9	Red octagonal concrete tower; 39.	
17396 *M 4269*	-Hwabuk Hong, W. breakwater, head.	33° 31.5′ N 126° 33.9′ E	**Fl.R.** period 5s	39 **12**	6	Red round concrete tower; 26.	
17396.3 *M 4269.25*	Samyang, No 1 breakwater.	33° 32.0′ N 126° 35.4′ E	**Fl.R.** period 4s	46 **14**	5	Red round structure; 26.	
17396.4 *M 4269.26*	-No 3.	33° 31.6′ N 126° 34.7′ E	**Fl.R.** period 6s	43 **13**	5	Red round metal post; 30.	
17396.8 *M 4269.28*	Sinchon Hang, E. breakwater.	33° 32.4′ N 126° 37.0′ E	**Fl.R.** period 5s	49 **15**	8	Red round metal tower; 30.	
17396.9 *M 4269.29*	-Chochon Hang, breakwater.	33° 32.5′ N 126° 38.0′ E	**Fl.(2)G.** period 6s	33 **10**	5	White round metal tower; 26.	
17396.91 *M 4269.35*	Hamdeok Hang, E. breakwater.	33° 32.9′ N 126° 39.7′ E	**Fl.G.** period 4s	39 **12**	6	White round metal tower; 26. Floodlit.	Reserve light F.W.
17397 *M 4269.3*	Shinhungkwaggoch.	33° 33.3′ N 126° 38.7′ E	**Fl.W.** period 6s	42 **13**	8	White octagonal concrete tower; 33.	

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17398 *M 4283.8*	Sasudo.	33° 55.3′ N 126° 38.4′ E	**Fl.W.** period 6s	276 **84**	11	White octagonal concrete tower; 36.	Visible 332°-208°.
	RACON		**G(– – •)**		10		(3 & 10cm).
17400 *M 4269.5*	-Talso.	33° 33.5′ N 126° 41.8′ E	**Fl.(2)W.** period 6s	46 **14**	8	White octagonal concrete tower; 33.	
17401 *M 4269.4*	-W. breakwater.	33° 33.1′ N 126° 41.6′ E	**Fl.R.** period 5s	33 **10**	9		
17401.5 *M 4269.6*	Dongbok Hang, breakwater.	33° 33.3′ N 126° 42.9′ E	**Fl.(2)R.** period 6s	43 **13**	9	Red round metal tower; 30.	
17402 *M 4269.8*	-Kimnyong Hang, W. breakwater.	33° 33.6′ N 126° 44.4′ E	**Fl.R.** period 6s	59 **18**	9	Red concrete tower; 36.	**AIS** (MMSI No 994403894).
17402.1 *M 4269.9*	--E. breakwater.	33° 33.7′ N 126° 44.4′ E	**Fl.G.** period 6s	52 **16**	9	White round concrete tower; 36.	
17404 *M 4270*	-Haengwon-Ri, W. breakwater, head.	33° 33.5′ N 126° 48.3′ E	**Fl.R.** period 4s	39 **12**	8	Red round metal post; 26.	
17407 *M 4270.1*	-Pyeongdae Hang, E. breakwater.	33° 32.2′ N 126° 50.5′ E	**Fl.R.** period 5s	36 **11**	5	Red round metal tower; 26.	
17407.5 *M 4270.15*	Sehwa Hang.	33° 31.8′ N 126° 51.5′ E	**Fl.R.** period 4s	43 **13**	6	Red round metal tower; 30.	
17408 *M 4270.2*	-E. breakwater, head.	33° 31.8′ N 126° 51.5′ E	**Fl.G.** period 4s	56 **17**	5	White round concrete tower; 39.	
17412 *M 4271*	Pandatan.	33° 31.2′ N 126° 54.5′ E	**Fl.R.** period 6s	43 **13**	5	STARBOARD (B) R, tower, topmark; 33.	
17414 *M 4271.5*	U do, Tuksaenggot.	33° 31.5′ N 126° 57.2′ E	**Fl.(2)W.** period 6s	52 **16**	8	Metal post; 43.	
17416 *M 4272.2*	-U Do.	33° 30.9′ N 126° 58.3′ E	**Q.(3)W.** period 10s	46 **14**	8	E. CARDINAL BYB, tower, topmark; 43.	**AIS** (MMSI No 994403897).
17420 *M 4272*	**-U Do.**	33° 29.6′ N 126° 58.0′ E	**Fl.W.** period 20s	459 **140**	**27**	White round brick tower; 52.	Visible 042°-019°. **Horn:** 2 bl. ev. 52s.
17424 *M 4272.3*	-E. breakwater.	33° 28.7′ N 126° 56.2′ E	**Fl.G.** period 4s	56 **17**	8	White round concrete tower; 49.	
17425	-S. breakwater.	33° 29.3′ N 126° 57.1′ E	**Fl.R.** period 6s	52 **16**	8	Red metal post; 33.	
17429 *M 4272.25*	Songsanpo.	33° 29.3′ N 126° 55.5′ E	**Fl.(2)R.** period 6s	49 **15**	8	STARBOARD (B) R, tower, topmark; 66.	
17432 *M 4272.42*	---W. breakwater.	33° 28.5′ N 126° 55.7′ E	**Fl.(4)Y.** period 8s	39 **12**	8	Yellow round concrete tower; 36.	
17434 *M 4272.35*	---N. breakwater, E. head.	33° 28.6′ N 126° 56.0′ E	**Fl.R.** period 4s	52 **16**	9	Red round concrete tower; 49.	
17435 *M 4272.36*	----W. head.	33° 28.6′ N 126° 55.6′ E	**Fl.(2)Y.** period 6s	52 **16**	6	Yellow round concrete tower; 49.	
17436 *M 4272.5*	-Pangdupo.	33° 25.6′ N 126° 56.0′ E	**Fl.W.** period 4s	131 **40**	8	White octagonal concrete tower; 23.	
17437 *M 4272.46*	Sinyang hang.	33° 25.7′ N 126° 55.2′ E	**Fl.G.** period 6s	39 **12**	6	White round metal tower; 26.	
17438 *M 4272.52*	Onpyeong.	33° 24.2′ N 126° 54.3′ E	**Fl.G.** period 4s	36 **11**	5	White round structure; 30.	
17440 *M 4272.54*	-On Pyeong.	33° 23.7′ N 126° 54.7′ E	**Q.(3)W.** period 10s	46 **14**	8	E. CARDINAL BYB, tower, topmark; 43.	
17441 *M 4272.55*	Sincheon Hang, breakwater.	33° 20.5′ N 126° 51.5′ E	**Fl.G.** period 6s	46 **14**	5	White round metal tower; 33.	
			F.W.				

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			SOUTH KOREA				
17444 *M 4272.6*	-Kaeminpo.	33° 19.2′ N 126° 50.9′ E	**Fl.W.** period 5s	46 **14**	8	White round concrete tower; 39.	**AIS** (MMSI No 994403896).
17448 *M 4272.57*	-Pyoseon Hang.	33° 19.6′ N 126° 50.8′ E	**Fl.G.** period 4s	39 **12**	5	White round concrete tower; 30.	
17452 *M 4272.7*	-Kaeminpo, Got (Kama).	33° 18.1′ N 126° 48.5′ E	**Fl.W.** period 9s	52 **16**	8	White octagonal concrete tower; 39.	
17452.5 *M 4272.71*	Sinheung Hang.	33° 17.9′ N 126° 46.1′ E	**Fl.(2)G.** period 6s	39 **12**	5	White round structure; 30.	
17453 *M 4272.73*	Taeheung Hang.	33° 17.1′ N 126° 45.1′ E	**Fl.G.** period 6s	43 **13**	6	Red round metal tower; 26.	
17454 *M 4272.75*	-Taebonggot.	33° 16.7′ N 126° 44.6′ E	**Fl.W.** period 6s	43 **13**	8	White octagonal concrete tower; 39.	
17454.5 *M 4272.78*	Bang-iyeo.	33° 16.4′ N 126° 43.2′ E	**Q.(6)+L.Fl.W.** period 15s	56 **17**	6	S. CARDINAL YB, beacon, topmark; 72.	
17455 *M 4272.9*	-Wimi Hang, E. breakwater.	33° 16.1′ N 126° 39.7′ E	**Fl.R.** period 6s	59 **18**	8	Red round concrete tower; 33.	
17455.5 *M 4272.95*	--W. breakwater.	33° 16.1′ N 126° 39.7′ E	**Fl.G.** period 6s	56 **17**	10	White round concrete tower; 33.	
17456 *M 4272.8*	-Chigwi Do.	33° 13.6′ N 126° 39.4′ E	**Fl.W.** period 5s	56 **17**	8	Metal post; 39.	
	-RACON		**Y(– • – –)**		10		(3 & 10cm).
17457 *M 4272.97*	Pomongtong Hang, E. breakwater.	33° 14.3′ N 126° 36.5′ E	**Fl.R.** period 5s	39 **12**	5	Red round metal tower; 26.	
17467 *M 4274.505*	**Seogwipo Oehang**, breakwater.	33° 14.0′ N 126° 34.0′ E	**Fl.R.** period 4s	56 **17**	**16**	Red round concrete tower; 49. Floodlit.	
17468 *M 4273*	Nok Do.	33° 13.6′ N 126° 34.0′ E	**Fl.W.** period 6s	315 **96**	10	White round concrete tower; 30.	
17472 *M 4274.52*	Beophwan Hang, S. breakwater.	33° 14.2′ N 126° 31.0′ E	**Fl.G.** period 6s	39 **12**	5	White round metal structure; 26.	
17476.1 *M 4274.55*	Sebyeolgot.	33° 13.4′ N 126° 28.7′ E	**Q.(3)W.** period 10s	62 **19**	8	E. CARDINAL BYB, tower, topmark; 72.	**AIS** (MMSI No 994403898).
17477 *M 4274.58*	Hayejinhwang.	33° 13.9′ N 126° 22.7′ E	**Fl.W.** period 6s	72 **22**	8	White round concrete tower; 33.	
17480 *M 4254*	**-Mara Do.**	33° 07.0′ N 126° 16.1′ E	**Fl.W.** period 10s	167 **51**	**26**	White octagonal concrete tower; 36.	**AIS** (MMSI No 994403891). **Siren:** 1 bl. ev. 30s (bl. 5s, si. 25s).
	-RACON		**M(– –)**		10		(3 & 10cm).
17481 *M 4252*	Socotra Rock.	32° 07.4′ N 125° 10.9′ E	**Mo.(U)W.** period 15s	121 **37**	14	Helicopter platform.	100 miles SW. of Cheju Do.
	RACON		**D(– • •)**		**35**		(3 & 10cm).
17482 *M 4254.2*	Kap'a Hang, S. breakwater.	33° 09.9′ N 126° 16.6′ E	**Fl.G.** period 6s	36 **11**	8	White round tower; 26.	
17483 *M 4254.3*	Kwangpotan.	33° 10.4′ N 126° 17.5′ E	**Fl.(2)W.** period 5s	49 **15**	8	ISOLATED DANGER BRB, tower, topmark; 36.	
17483.5 *M 4254.35*	Kwabutan.	33° 10.3′ N 126° 14.3′ E	**Fl.(2)W.** period 10s	52 **16**	8	ISOLATED DANGER BRB, post, topmark; 62.	
17484 *M 4254.6*	-Mosulpo Hang, E. breakwater, head.	33° 12.8′ N 126° 15.1′ E	**Fl.R.** period 5s	49 **15**	9	Red round concrete tower; 33.	
17488 *M 4254.4*	-W. breakwater, head.	33° 12.9′ N 126° 15.0′ E	**Fl.G.** period 5s	56 **17**	9	White round concrete tower; 33.	
17489 *M 4254.9*	Hwasun Hang, outer breakwater.	33° 13.9′ N 126° 19.6′ E	**Fl.Y.** period 4s	56 **17**	7	Red round metal tower; 20.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			SOUTH KOREA				
17490 *M 4254.8*	Sagye Hang, breakwater.	33° 13.6′ N 126° 18.4′ E	**Fl.R.** period 6s	52 **16**	8	Red round concrete tower; 43.	
17496 *M 4255*	-Ch'agwi Do.	33° 18.7′ N 126° 08.8′ E	**Fl.W.** period 6s	220 **67**	11	White round concrete tower; 16.	Visible 332°-208°.
	-RACON		**O(– – –)**		10		(3 & 10cm).
17496.5 *M 4255.15*	Sindo.	33° 16.7′ N 126° 10.1′ E	**Fl.G.** period 6s	33 **10**	9	Red round metal post; 30.	
17497 *M 4255.25*	-Jejudo.	33° 18.8′ N 126° 09.4′ E	**V.Q.(9)W.** period 10s	52 **16**	7	W. CARDINAL YBY, beacon, topmark; 75.	
17498 *M 4255.35*	Yongsu.	33° 19.4′ N 126° 09.8′ E	**Fl.G.** period 6s	39 **12**	5	White round structure; 30.	
17500 *M 4256*	-Shingchang.	33° 20.7′ N 126° 10.2′ E	**Fl.W.** period 4s	62 **19**	8	White octagonal concrete tower; 36.	
17500.5 *M 4256.2*	Sinchang-ni, NE.	33° 21.0′ N 126° 10.7′ E	**Fl.R.** period 6s	43 **13**	5	Red round metal tower; 26.	
17500.6 *M 4256.3*	Dumo Hang, breakwater.	33° 21.4′ N 126° 10.7′ E	**Fl.G.** period 5s	43 **13**	8	White round metal tower; 30.	
17501 *M 4256.5*	Suyonggot.	33° 23.4′ N 126° 13.4′ E	**Fl.W.** period 6s	49 **15**	8		
17501.2 *M 4259.5*	-Hyeopjae Hang, breakwater.	33° 23.9′ N 126° 14.5′ E	**Fl.G.** period 4s	36 **11**	9	White round metal structure; 26.	
17502 *M 4255.5*	-Yongdang Sanggot.	33° 20.3′ N 126° 09.6′ E	**Q.(9)W.** period 15s	36 **11**	8	W. CARDINAL YBY, tower, topmark; 46.	**AIS** (MMSI No 994403900).
17504 *M 4258*	Piyang-do.	33° 24.6′ N 126° 13.6′ E	**Fl.W.** period 6s	390 **119**	8	White round concrete tower; 16.	
	RACON		**B(– • • •)**		10		(3 & 10cm).
17505 *M 4259*	--S. end.	33° 24.2′ N 126° 13.7′ E	**Q.(6)+L.Fl.W.** period 15s	42 **13**	8	S. CARDINAL YB, tower, topmark; 39.	
17506 *M 4260*	Piyangdo Hang, E. breakwater.	33° 24.3′ N 126° 13.9′ E	**Fl.(2)R.** period 6s	26 **8**	7	Red round metal tower; 16.	
17508 *M 4257*	-Sobiyo.	33° 25.2′ N 126° 13.4′ E	**Q.W.**	39 **12**	8	N. CARDINAL BY, tower, topmark; 33.	
17512 *M 4263*	-Hallim, N. breakwater, head.	33° 25.0′ N 126° 15.1′ E	**Fl.G.** period 5s	59 **18**	9	White round concrete tower; 49.	
17516 *M 4262*	--W. breakwater, head.	33° 24.9′ N 126° 15.2′ E	**Fl.R.** period 5s	43 **13**	8	Red round concrete tower; 23.	
17518 *M 4263.5*	-Unyongot.	33° 26.1′ N 126° 15.8′ E	**Fl.W.** period 5s	43 **13**	8	White round concrete tower; 33.	
17519 *M 4263.7*	Younguntong Hang, W. breakwater.	33° 26.3′ N 126° 16.3′ E	**Fl.R.** period 5s	36 **11**	5	Red round tower; 26.	
17519.5 *M 4263.9*	-Kwidok, 2-ri.	33° 26.8′ N 126° 16.6′ E	**V.Q.W.**	49 **15**	7	N. CARDINAL BY, tower, topmark; 52.	
17519.6 *M 4263.92*	-1-ri.	33° 26.9′ N 126° 17.6′ E	**Fl.R.** period 6s	46 **14**	5	Red round concrete tower; 56.	
17520 *M 4264*	-Kwideok.	33° 26.8′ N 126° 17.5′ E	**Fl.W.** period 6s	59 **18**	8	White round concrete tower; 42.	
17528 *M 4265.2*	Aewol Hang, N. breakwater.	33° 28.1′ N 126° 19.5′ E	**Fl.R.** period 5s	52 **16**	8	Red round concrete tower; 33.	
17528.5 *M 4265.3*	-E. breakwater.	33° 28.1′ N 126° 19.7′ E	**Fl.G.** period 5s	49 **15**	8	White round concrete tower; 33.	
17528.6 *M 4265.4*	Gonae Hang, breakwater.	33° 28.1′ N 126° 20.3′ E	**Fl.(2)R.** period 6s	30 **9**	5	Red round metal tower; 16.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			SOUTH KOREA				
17528.62 *M 4265.43*	Sineom.	33° 28.4′ N 126° 21.1′ E	**Fl.R.** period 6s	36 **11**	6	Red round pillar; 30.	
17528.65 *M 4265.45*	Gueom Hang, breakwater.	33° 29.1′ N 126° 22.5′ E	**Fl.G.** period 6s	33 **10**	8	White round metal tower; 30.	
17528.7 *M 4265.5*	Gamundong Hang.	33° 29.2′ N 126° 23.6′ E	**Fl.R.** period 5s	36 **11**	9	Red round metal tower; 26.	
17528.8 *M 4265.55*	Ihohyeonsa.	33° 29.9′ N 126° 27.0′ E	**Fl.(2)R.** period 6s	36 **11**	5	Red round pillar; 30.	
17529 *M 4278.3*	Milmae Do.	34° 15.0′ N 126° 19.8′ E	**Fl.W.** period 4s	177 **54**	8	White round concrete tower; 36.	**AIS** (MMSI No 994402996).
17530 *M 4278.2*	Juggul Do (Chukkul do).	34° 14.0′ N 126° 25.2′ E	**Fl.W.** period 6s	167 **51**	8	White round concrete tower; 37.	Visible 351°-345°.
17531 *M 4278.15*	Seoneob Do.	34° 11.4′ N 126° 28.4′ E	**Fl.W.** period 4s	167 **51**	8	White round concrete tower; 36.	Visible 351°-237°.
17531.5 *M 4279.37*	Hugil-to.	34° 16.5′ N 126° 32.4′ E	**Fl.W.** period 5s	46 **14**	8	White round concrete tower; 30.	
17532 *M 4278*	**Oryong Do.**	34° 17.2′ N 126° 28.4′ E	**Fl.W.** period 15s	305 **93**	**21**	White octagonal concrete tower; 20.	**AIS** (MMSI No 994403003). **Horn:** 1 bl. ev. 40s (bl. 5s, si. 35s).
	RACON		**O(– – –)**		10		(3 & 10cm).
17533.5 *M 4279.36*	Galdu Hang.	34° 18.0′ N 126° 31.9′ E	**Fl.G.** period 5s	46 **14**	5	White four-sided concrete tower; 36.	
17534 *M 4279.35*	Yangdo.	34° 17.9′ N 126° 30.5′ E	**Fl.W.** period 4s	75 **23**	8		Visible 310°-150°.
17535 *M 4278.8*	Eobuldo.	34° 19.9′ N 126° 28.4′ E	**Fl.(3)W.** period 7s	52 **16**	8	White octagonal metal tower; 30.	
17536 *M 4279*	Oran-ni.	34° 20.9′ N 126° 28.4′ E	**Fl.G.** period 6s	36 **11**	5	White round concrete tower; 30.	
17540 *M 4279.3*	Sang ma Do.	34° 27.3′ N 126° 25.0′ E	**Fl.(2)W.** period 6s	157 **48**	8	White round concrete structure; 16.	
17544 *M 4278.4*	Guja Do (Ku-do).	34° 19.3′ N 126° 18.1′ E	**Fl.(2)W.** period 6s	138 **42**	8	White round concrete tower; 26.	
17546 *M 4246.505*	Marohae.	34° 21.6′ N 126° 12.8′ E	**Fl.W.** period 5s	69 **21**	8	White hexagonal metal tower; 26.	
17548 *M 4243*	Tokko-do.	34° 15.7′ N 126° 11.0′ E	**Fl.W.** period 6s	223 **68**	8	White round concrete tower; 10.	**AIS** (MMSI No 994402997).
17549 *M 4242.6*	Poksacho.	34° 05.9′ N 126° 10.1′ E	**Fl.(2)W.** period 10s	56 **17**	10	ISOLATED DANGER BRB, beacon, topmark; 95.	**AIS** (MMSI No 994403005).
	RACON		**K(– • –)**		10		(3 & 10cm).
17551.8 *M 4247.6*	Turyang-do.	34° 21.1′ N 125° 53.9′ E	**Fl.(2)W.** period 10s	39 **12**	8	ISOLATED DANGER BRB, tower, topmark; 39.	
17552 *M 4247.5*	Nulog Do (Nurok-to), SE. end.	34° 20.7′ N 125° 57.5′ E	**Fl.W.** period 4s	43 **13**	8	White round concrete tower; 30.	
17554 *M 4247.7*	**Oebyeong Do.**	34° 22.7′ N 125° 56.4′ E	**Fl.W.** period 10s	267 **81**	**18**	White octagonal concrete tower; 34.	Visible 068°-264°.
17556 *M 4246*	**Hajo Do.**	34° 18.7′ N 126° 05.3′ E	**Fl.W.** period 10s	157 **48**	**26**	White round concrete tower; 46.	Visible 130°-336°. **AIS** (MMSI No 994402992). **Siren:** 1 bl. ev. 55s (bl. 5s, si. 50s).
17557 *M 4246.8*	Dang Dan.	34° 19.1′ N 126° 02.9′ E	**Fl.(2)W.** period 5s	33 **10**	8	ISOLATED DANGER BRB, tower, topmark; 36.	
17558 *M 4246.5*	Pulmu Do.	34° 19.5′ N 126° 10.1′ E	**Fl.W.** period 4s	148 **45**	8	White round concrete tower; 33.	

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			SOUTH KOREA				
17559 *M 4246.51*	Hangando.	34° 19.2′ N 126° 07.8′ E	**Fl.(2)W.** period 6s	105 **32**	8	White octagonal concrete tower; 26.	
	RACON		**N(– •)**		10		(3 & 10cm).
17559.5 *M 4246.52*	Changjukto.	34° 21.0′ N 126° 06.5′ E	**Fl.W.** period 6s	59 **18**	8	White octagonal concrete tower; 26.	
17560 *M 4247*	Semog.	34° 18.6′ N 126° 01.4′ E	**Fl.W.** period 4s	56 **17**	8	White round concrete tower; 26.	Visible 018°-073° and 146°-215°. **Radar reflector.**
17561 *M 4249.6*	Taema-Do.	34° 17.3′ N 125° 59.3′ E	**Q.(6)+L.Fl.W.** period 15s	33 **10**	8	S. CARDINAL YB, tower, topmark; 25.	
17562 *M 4249.8*	Haesu So.	34° 16.0′ N 126° 01.5′ E	**Fl.(2)W.** period 10s	36 **11**	8	ISOLATED DANGER BRB, tower, topmark; 36.	
17563 *M 4249.7*	Koma-do.	34° 13.7′ N 125° 59.5′ E	**Fl.W.** period 4s	164 **50**	9	White round concrete tower; 33.	Visible 090°-045°.
17564 *M 4249*	Seogeocha Do.	34° 15.4′ N 125° 55.5′ E	**Fl.W.** period 6s	98 **30**	8	White round concrete tower; 19.	
17568 *M 4249.2*	-Seogeocha. Do Hang, E. breakwater.	34° 14.9′ N 125° 55.0′ E	**Fl.R.** period 4s	46 **14**	5	Red round concrete tower; 28.	
17572 *M 4249.4*	--W. breakwater.	34° 14.8′ N 125° 54.9′ E	**Fl.G.** period 4s	46 **14**	5	White round concrete tower; 28.	
17576 *M 4248*	**Chuk-to.**	34° 13.5′ N 125° 50.8′ E	**Fl.W.** period 10s	279 **85**	**26**	White round concrete tower; 26.	Visible 350°-323°. **AIS** (MMSI No 994402998). **Horn:** 1 bl. ev. 30s (bl. 5s, si. 25s).
	RACON		**Z(– – • •)** period 60s		10		(3cm).
17577 *M 4248.5*	Pyonso.	34° 11.7′ N 125° 49.5′ E	**Fl.(2)W.** period 5s	49 **15**	8	ISOLATED DANGER BRB, tower, topmark; 62.	
17580 *M 4250*	Pyongp'ung - do.	34° 08.6′ N 125° 56.7′ E	**Fl.W.** period 6s	154 **47**	8	White round concrete tower; 30.	**AIS** (MMSI No 994402995).
17581 *M 4246.6*	Somang Hang, S. breakwater.	34° 21.9′ N 126° 07.9′ E	**Fl.(2)R.** period 6s	49 **15**	5	Red round concrete tower; 33.	
17581.5 *M 4246.65*	-N. breakwater.	34° 21.9′ N 126° 07.8′ E	**Fl.G.** period 6s	49 **15**	5	White round concrete tower; 33.	
17581.7 *M 4247.8*	Songnamdo.	34° 23.6′ N 126° 03.2′ E	**Fl.W.** period 4s	43 **13**	8	White round concrete tower; 26.	
17581.8 *M 4246.55*	Chindo.	34° 24.3′ N 126° 05.8′ E	**Fl.(2)W.** period 6s	36 **11**	8	White round concrete tower; 23.	
17582 *M 4232.6*	Pulto.	34° 26.4′ N 126° 03.8′ E	**Fl.W.** period 6s	171 **52**	8	White round concrete tower; 33.	Visible 202°-086°.
	RACON		**B(– • • •)**		10		(3 & 10cm).
17583 *M 4233*	Kalduri.	34° 28.7′ N 126° 07.4′ E	**Fl.(2)W.** period 10s	46 **14**	8	Black concrete tower, red band; 43.	
17584 *M 4232*	**Kasa Do.**	34° 27.6′ N 126° 02.6′ E	**Fl.W.** period 15s	249 **76**	**27**	White octagonal concrete tower; 56.	**AIS** (MMSI No 994402993). **Horn:** 1 bl. ev. 45s (bl. 5s, si. 40s).
17585 *M 4247.81*	Kadokdo.	34° 27.1′ N 126° 00.1′ E	**Fl.(2)W.** period 6s	36 **11**	8	White round concrete tower; 26.	
17586 *M 4235*	Chisi Do.	34° 31.8′ N 126° 00.9′ E	**Fl.W.** period 6s	165 **50**	8	White round concrete tower; 33.	Visible 269°-143°.
17587 *M 4228.6*	Shindo.	34° 35.7′ N 125° 57.5′ E	**Fl.W.** period 5s	59 **18**	8	White round concrete tower; 26.	
17588 *M 4228.5*	Bi Do (Pi-do).	34° 34.1′ N 125° 54.7′ E	**Fl.(2)W.** period 6s	95 **29**	8	White round concrete tower; 30.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			SOUTH KOREA				
17592 *M 4234*	Cho Do, NW. Point.	34° 30.6′ N 126° 09.7′ E	**Fl.(2)W.** period 6s	36 **11**	8	White round concrete tower; 26.	Visible 036°-248°.
17593 *M 4234.6*	To-so.	34° 31.5′ N 126° 04.5′ E	**Fl.(2)W.** period 5s	46 **14**	9	ISOLATED DANGER BRB, tower, topmark; 36.	**AIS** (MMSI No 994402984).
17594 *M 4234.8*	Man-so.	34° 30.4′ N 126° 02.2′ E	**Fl.(2)W.** period 10s	52 **16**	9	ISOLATED DANGER BRB, tower, topmark; 46.	
17596 *M 4236*	Ku Do, on small islet S. of Yul To.	34° 34.1′ N 126° 11.9′ E	**Fl.W.** period 4s	95 **29**	8	White round stone tower; 23.	**AIS** (MMSI No 994402972).
17598 *M 4240*	Chindo Bridge.	34° 34.3′ N 126° 18.3′ E	**F.W.**	65 **20**	7	White round daymark, red stripes.	F.G. 18m 4M and F.R. 18m 4M mark width of nvigable span.
17600 *M 4241*	Nog Do, SW. end of island.	34° 33.6′ N 126° 19.3′ E	**Fl.W.** period 4s	89 **27**	8	White round concrete tower; 26.	**AIS** (MMSI No 994402999).
17604 *M 4242*	Pangt'an Rock.	34° 33.5′ N 126° 20.6′ E	**Fl.R.** period 4s	43 **13**	5	STARBOARD (B) R, tower, topmark; 43.	
17608 *M 4238*	Imha Do.	34° 36.8′ N 126° 15.6′ E	**Fl.(2)W.** period 6s	69 **21**	8	White round concrete tower; 20.	Visible 323°-180°.
17612 *M 4237*	Changdo.	34° 37.4′ N 126° 13.2′ E	**Fl.W.** period 6s	102 **31**	8	White round concrete tower; 30.	**AIS** (MMSI No 994402973).
	RACON		**M(– –)**		10		(3 & 10cm).
17614 *M 4235*	Chi Do.	34° 40.2′ N 126° 12.6′ E	**Fl.W.** period 6s	157 **48**	8	White round concrete tower; 33.	Visible 269°-143°.
17615 *M 4219.5*	Bokhocho.	34° 41.9′ N 126° 10.4′ E	**Fl.G.** period 5s	46 **14**	7	PORT (B) G, tower, topmark; 33.	
17616 *M 4220*	**Siha Do.**	34° 42.0′ N 126° 14.5′ E	**Fl.W.** period 12s	128 **39**	**22**	White round concrete tower; 26.	Visible 350°-213°. **AIS** (MMSI No 994402968). **Horn:** 1 bl. ev. 35s (bl. 5s, si. 30s).
17616.5 *M 4220.5*	Daepotan.	34° 41.6′ N 126° 12.8′ E	**Q.(3)W.** period 10s	43 **13**	8	E. CARDINAL BYB, beacon, topmark; 33.	
17617 *M 4219*	Chungsando.	34° 42.6′ N 126° 11.5′ E	**Fl.W.** period 6s	43 **13**	8	White octagonal concrete tower; 26.	
17620 *M 4215*	Pyon Do.	34° 45.2′ N 126° 10.4′ E	**Fl.R.** period 4s	52 **16**	8	STARBOARD (B) R, tower, topmark; 39.	Visible 110°-330°. **AIS** (MMSI No 994402971).
	RACON		**G(– – •)** period 30s		10		(3cm).
17621 *M 4216.9*	**Pulmugi-do.**	34° 45.6′ N 126° 13.4′ E	**Fl.W.** period 5s	105 **32**	**15**	White four-sided concrete tower; 36.	
	RACON		**Z(– – • •)**		10		(3 & 10cm).
17622 *M 4217.2*	Oedalto Island.	34° 46.6′ N 126° 17.4′ E	**Q.(9)W.** period 15s	49 **15**	8	W. CARDINAL YBY, tower, topmark; 59.	
17623 *M 4217.38*	Maek-to, SW.	34° 47.3′ N 126° 19.0′ E	**Fl.(2)W.** period 6s	49 **15**	8	White octagonal concrete tower; 43.	**AIS** (MMSI No 994402981).
17624 *M 4217*	**Hwawon Bando.**	34° 45.7′ N 126° 17.8′ E	**Fl.W.** period 5s	121 **37**	**20**	White round concrete structure; 118.	Visible 067°-305°. **AIS** (MMSI No 994402960). **Horn:** 1 bl. ev. 30s (bl. 5s, si. 25s).
17625 *M 4217.7*	-E.	34° 45.0′ N 126° 19.0′ E	**Fl.W.** period 6s	46 **14**	10	White round concrete tower; 26.	Visible 127°-304°.
17626 *M 4217.6*	Tallido.	34° 45.6′ N 126° 19.1′ E	**Fl.(2)W.** period 6s	49 **15**	8	White octagonal concrete tower; 23.	Visible 245°-104°.
17626.7 *M 4217.74*	Haenam Gang Bridge, B.	34° 43.0′ N 126° 23.0′ E	**Fl.Y.** period 4s	18 **5**	7		

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			SOUTH KOREA				
17627 *M 4217.5*	Changjwa-do.	34° 46.9′ N 126° 20.3′ E	**Fl.W.** period 5s	46 **14**	8	White octagonal concrete tower; 46.	Visible 207°-135°.
17627.5 *M 4217.47*	Mokpobuk Hang, W. pier.	34° 47.8′ N 126° 21.0′ E	**Fl.(4)Y.** period 8s	43 **13**	8	Yellow concrete tower; 33.	
17627.51 *M 4217.471*	-E. pier.	34° 47.8′ N 126° 21.0′ E	**Fl.(4)Y.** period 8s	43 **13**	8	Yellow concrete tower; 33.	
17627.6 *M 4217.48*	Mokpo Bridge.	34° 47.3′ N 126° 21.3′ E	**F.W.**	174 **53**	7		F.G. 53m 8M and F.R. 53m 8M mark width of navigable span.
17627.7 *M 4217.8*	Mokpo Hang Bridge.	34° 45.1′ N 126° 21.9′ E	**F.W.**	33 **10**	7	White round daymark, white stripes.	F.G. 8m 4M and F.R. 8m 5M mark width of navigable span.
17627.8 *M 4217.79*	Yeong Am.	34° 45.0′ N 126° 21.9′ E	**Fl.G.** period 4s	45 **14**	9	White round metal pipe.	
17628 *M 4218*	Monghado.	34° 46.1′ N 126° 22.7′ E	**Fl.W.** period 4s	98 **30**	8	White fiberglass structure, concrete base; 49.	
17628.5 *M 4218.1*	-No 2 Wharf, Pontoon.	34° 46.9′ N 126° 23.3′ E	**Fl.(2)R.** period 6s	20 **6**	6	Red metal pipe; 13.	
17628.7 *M 4218.13*	Mokponam Hang.	34° 47.0′ N 126° 24.6′ E	**Fl.G.** period 4s	33 **10**	8	White round metal column; 26.	
17629 *M 4218.2*	Tabul Hang A.	34° 46.8′ N 126° 25.9′ E	**Fl.(4)Y.** period 8s	30 **9**	7	Yellow round fiberglass tower; 16.	
17629.5 *M 4218.25*	-B.	34° 46.8′ N 126° 25.8′ E	**Fl.Y.** period 6s	30 **9**	7	Yellow round fiberglass tower; 16.	
17630 *M 4218.3*	Tongyang dolphin A.	34° 46.7′ N 126° 25.6′ E	**Fl.(2)Y.** period 6s	30 **9**	7	Yellow round pipe; 16.	**Horn:** 1 bl. ev. 20s (bl. 5s, si. 15s).
17630.5 *M 4218.35*	-B.	34° 46.7′ N 126° 25.7′ E	**Fl.Y.** period 4s	30 **9**	7	Yellow round pipe; 16.	
17632 *M 4215.5*	Hanaptokto.	34° 48.4′ N 126° 12.8′ E	**Fl.W.** period 6s	85 **26**	8	White round concrete tower; 30.	**AIS** (MMSI No 994402978).
17633 *M 4215.7*	Amchido.	34° 49.9′ N 126° 09.8′ E	**Fl.(2)W.** period 5s	40 **12**	8	ISOLATED DANGER BRB, beacon, topmark; 39.	
17636 *M 4216*	Amtae Do, E. extremity of island.	34° 52.0′ N 126° 09.4′ E	**Fl.W.** period 4s	125 **38**	8	White round brick tower; 23.	Visible 144°-339°.
17640 *M 4216.5*	Chaun-do.	34° 55.3′ N 126° 05.4′ E	**Fl.(2)W.** period 6s	112 **34**	8	White round concrete tower; 30.	
17641 *M 4216.2*	Haeso.	34° 53.8′ N 126° 07.0′ E	**Q.W.**	26 **8**	8	N. CARDINAL BY, tower, topmark; 25.	
17642 *M 4217.5*	Hwangdo.	34° 55.6′ N 126° 09.2′ E	**Fl.W.** period 5s	39 **12**	8	White octagonal concrete tower; 46.	Visible 207°-135°.
17642.5 *M 4230.2*	Pigum-Toch'odo Bridge.	34° 43.1′ N 125° 56.3′ E	**F.W.**	79 **24**	8	White round daymark, red stripe.	F.G. 22m 8M, F.R. 22m 7M and F.Y. 3m 7M mark width of navigable span.
17643 *M 4230*	Daegog Do.	34° 42.5′ N 125° 54.4′ E	**Fl.(2)W.** period 6s	115 **35**	8	White round concrete tower; 26.	**AIS** (MMSI No 994402974).
	RACON		**X(– • • –)**		10		(3 & 10cm).
17643.1 *M 4210.8*	Oegalto.	34° 59.8′ N 126° 05.3′ E	**Fl.W.** period 5s	108 **33**	8	White round concrete tower; 26.	Visible 328°-208°. **AIS** (MMSI No 994402979).
17643.5 *M 4216.8*	Pyongpungdo.	34° 59.1′ N 126° 11.8′ E	**Fl.(2)W.** period 5s	36 **11**	8	ISOLATED DANGER BRB, beacon, topmark; 36.	
17644 *M 4211*	Odo.	34° 56.7′ N 125° 57.4′ E	**Fl.W.** period 4s	236 **72**	8	White round concrete tower; 36.	
17644.2 *M 4211.2*	Jasonyeo.	35° 01.4′ N 125° 51.7′ E	**Q.W.**	69 **21**	8	N. CARDINAL BY, tower, topmark; 36.	**AIS** (MMSI No 994402985).

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			SOUTH KOREA				
17644.5 *M 4229.8*	Changgu-so.	34° 43.7′ N 125° 52.6′ E	**Fl.W.** period 5s	62 **19**	8	White round concrete tower; 30.	
17645 *M 4229.5*	Pokto.	34° 42.2′ N 125° 50.2′ E	**Fl.(2)W.** period 10s	52 **16**	8	Black round concrete tower, red band; 36.	**AIS** (MMSI No 994402986).
	RACON		**O(– – –)** period 30s		10		(3 & 10cm).
17646 *M 4228.8*	**Uido.**	34° 37.3′ N 125° 48.2′ E	**Fl.W.** period 5s	272 **83**	**15**	White round concrete tower; 26.	Visible 345°-156°. **AIS** (MMSI No 994402980).
17648 *M 4229*	Kyongch'i Do.	34° 39.1′ N 125° 53.7′ E	**Fl.W.** period 4s	154 **47**	8	White round concrete tower; 30.	Visible 120°-061°.
17649 *M 4229.1*	Chongdar-am.	34° 39.1′ N 125° 55.5′ E	**Fl.(2)W.** period 5s	26 **8**	8	ISOLATED DANGER BRB, tower, topmark; 59.	**AIS** (MMSI No 994402987).
17650 *M 4230.8*	-Touch'ado.	34° 44.2′ N 125° 57.7′ E	**Fl.W.** period 6s	45 **14**	8	White octagonal concrete tower; 26.	
17652 *M 4213*	Sangsuchsi Do.	34° 46.0′ N 126° 01.1′ E	**Fl.(2)W.** period 6s	121 **37**	8	White round concrete tower; 26.	Visible 018°-299°. **AIS** (MMSI No 994402975).
17656 *M 4231*	Jeung Do.	34° 44.4′ N 125° 59.2′ E	**Fl.W.** period 4s	49 **15**	8	White round concrete tower; 26.	Visible 085°-307°.
	RACON		**K(– • –)** period 30s		10		(3cm).
17658 *M 4231.5*	Migido.	34° 41.0′ N 126° 00.9′ E	**Fl.W.** period 4s	66 **20**	8	White concrete tower; 49.	
17660 *M 4213.5*	Samdo.	34° 46.3′ N 126° 03.0′ E	**Fl.W.** period 4s	49 **15**	8	White round concrete tower; 30.	**AIS** (MMSI No 994402982).
17661 *M 4213.8*	Sangsachi Do.	34° 45.8′ N 126° 02.6′ E	**Q.(9)W.** period 15s	36 **11**	8	W. CARDINAL YBY, tower, topmark; 43.	
17664 *M 4214*	P'algum Do.	34° 47.3′ N 126° 05.0′ E	**Fl.W.** period 6s	59 **18**	8	White round concrete tower; 20.	Visible 296°-206°. **AIS** (MMSI No 994402965).
17664.1 *M 4214.3*	P'algum Do/Amt'ae Do, bridge.	34° 48.0′ N 126° 07.2′ E	**F.W.**	62 **19**	7		One each side.
17665 *M 4214.5*	Somajindo.	34° 46.6′ N 126° 07.1′ E	**Fl.W.** period 4s	45 **14**	8	White octagonal concrete tower; 30.	
17665.5 *M 4214.7*	Sinan bridge, center span.	34° 46.1′ N 126° 07.8′ E	**F.W.**	82 **25**	7	White round daymark, red stripe.	F.G. 23m 4M, F.R. 23m 4M and F.Y. 4m 6M mark width of navigable span.
17666 *M 4211.5*	**Chinso Mal.**	34° 52.5′ N 125° 58.1′ E	**Fl.W.** period 5s	197 **60**	**18**	White round concrete tower; 33.	Visible 335°-216°. **AIS** (MMSI No 994402967).
17668 *M 4212.5*	Use Do.	34° 47.5′ N 125° 54.5′ E	**Fl.W.** period 4s	222 **68**	8	White round concrete tower; 30.	
17669 *M 4212.7*	Wonpy'ong Hang, W. breakwater.	34° 46.9′ N 125° 54.6′ E	**Fl.(2)R.** period 6s	45 **14**	5	Red round concrete tower; 30.	Visible 125°-235°.
17670 *M 4212.8*	-E. breakwater.	34° 46.9′ N 125° 54.7′ E	**Fl.(2)G.** period 6s	31 **9**	5	White round concrete tower; 30.	
17672 *M 4212*	**Ch'ilbal Do.**	34° 47.3′ N 125° 47.3′ E	**Fl.W.** period 15s	345 **105**	**18**	White round concrete tower; 30.	**AIS** (MMSI No 994402963).
	RACON		**B(– • •)** period 60s		10		(3cm).
17676 *M 4225*	**Hajuk To.**	34° 45.8′ N 125° 26.5′ E	**Fl.W.** period 5s	328 **100**	**18**	White round concrete tower; 20.	
17678 *M 4222.5*	**Hojangdo.**	34° 43.0′ N 125° 24.4′ E	**Fl.W.** period 10s	256 **78**	**18**	White round concrete tower; 26.	Visible 011°-280°.
17679 *M 4222.1*	Pulgun-yo.	34° 42.4′ N 125° 28.1′ E	**Q.W.**	39 **12**	8	N. CARDINAL BY, beacon, topmark; 36.	

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			SOUTH KOREA				
17680 *M 4224*	Ka Do.	34° 42.2′ N 125° 27.8′ E	**Fl.(2)W.** period 6s	213 **65**	8	White round concrete tower; 20.	Visible 347°-311°. **AIS** (MMSI No 994402970).
	RACON		**C(– • – •)** period 30s		10		(3cm).
17682 *M 4223.3*	Taehuksan Do, S. breakwater.	34° 41.7′ N 125° 26.7′ E	**Fl.(2)G.** period 6s	43 **13**	5	White octagonal concrete tower; 26.	
17683 *M 4223.4*	-N. breakwater.	34° 41.8′ N 125° 26.5′ E	**Fl.(2)R.** period 6s	43 **13**	5	Red square metal framework tower; 27.	
17684 *M 4223*	Taehuksan Do, inner breakwater.	34° 41.3′ N 125° 26.5′ E	**Fl.G.** period 4s	39 **12**	10	White round metal column; 43.	
17688 *M 4223.5*	**Yongsan Do (Taehand-do).**	34° 39.3′ N 125° 28.7′ E	**Fl.W.** period 4s	167 **51**	**18**	White round concrete tower; 36.	Visible 106°-020°.
17692 *M 4225.5*	**Kyomaek To (Maemulda).**	34° 31.4′ N 125° 41.2′ E	**Fl.W.** period 10s	420 **128**	**16**	White fiberglass tower; 20.	Visible 225°-175°. **AIS** (MMSI No 994402969).
	RACON		**M(– –)**		10		(3 & 10cm).
17694 *M 4223.8*	Taehuksan Do.	34° 38.6′ N 125° 23.1′ E	**Fl.W.** period 6s	154 **47**	8	White hexagonal metal tower; 20.	
17695 *M 4223.9*	Taejangdo, Songammal.	34° 40.0′ N 125° 22.2′ E	**Fl.W.** period 4s	75 **23**	8	White metal pipe; 26.	
17696 *M 4222*	**Hong-do.**	34° 42.6′ N 125° 12.1′ E	**Fl.(3)W.** period 20s	291 **89**	**24**	White square concrete tower; 33.	Visible 035°-039° and 044°-237°. **AIS** (MMSI No 994402962). **Siren:** 1 bl. ev. 50s (bl. 5s, si. 45s).
17697 *M 4222.2*	-Chuk Hang.	34° 40.8′ N 125° 12.1′ E	**Fl.(2)W.** period 6s	98 **30**	8	White round concrete tower; 26.	Visible 220°-040°.
	-RACON		**Y(– • – –)** period 30s		10		(3cm).
17700 *M 4226*	**Hat'ae Do.**	34° 23.7′ N 125° 17.9′ E	**Fl.W.** period 6s	105 **32**	**21**	White round concrete tower; 13.	Visible 116°-308°.
17704 *M 4228*	**Manjae Do.**	34° 12.8′ N 125° 28.2′ E	**Fl.W.** period 5s	640 **195**	**16**	White round concrete tower; 16.	
17708 *M 4227*	**Sohuksan Do.**	34° 05.7′ N 125° 05.9′ E	**Fl.W.** period 15s	276 **84**	**27**	White round stone tower; 26.	Visible 032°-149° and 153°-268°. **AIS** (MMSI No 994402961). **Horn:** 1 bl. ev. 60s (bl. 5s, si. 55s).
17709 *M 4227.2*	Kagodo-ri.	34° 02.9′ N 125° 07.4′ E	**Fl.R.** period 5s	49 **15**	5	Red round concrete tower; 23.	
17710 *M 4227.4*	**-Mulsogmal.**	34° 03.2′ N 125° 08.6′ E	**Fl.W.** period 10s	512 **156**	**18**	White octagonal fiberglass tower; 20.	
17712 *M 4210*	**Taerorok To.**	35° 06.2′ N 125° 59.2′ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	236 **72**	**18**	White round concrete tower; 23.	Visible 159°-035° and 046°-077°. **AIS** (MMSI No 994402976).
17713 *M 4210.5*	Naedo.	35° 01.2′ N 126° 12.5′ E	**Q.(9)W.** period 15s	16 **5**	8	W. CARDINAL YBY, beacon, topmark; 16.	
17713.5 *M 4209.6*	Mok-som.	35° 10.5′ N 126° 20.5′ E	**Fl.W.** period 6s	79 **24**	8	White octagonal concrete tower; 36.	
17714 *M 4210.3*	Sambongdan.	35° 08.7′ N 126° 09.8′ E	**Fl.W.** period 4s	102 **31**	8	White round concrete tower; 33.	Visible 202°-035°. **AIS** (MMSI No 994402966).
17716 *M 4209*	**Anma Do.**	35° 20.2′ N 125° 59.3′ E	**Fl.W.** period 10s	279 **85**	**18**	White concrete column; 16.	Visible 333°-338° and 350°-199°. **AIS** (MMSI No 994402964).
17718 *M 4208.2*	Kyema Hang, groin.	35° 23.3′ N 126° 24.3′ E	**Fl.R.** period 5s	39 **12**	9	Red octagonal concrete tower; 26.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			SOUTH KOREA				
17718.5 *M 4208.21*	-Breakwater.	35° 23.4′ N 126° 24.2′ E	**Fl.G.** period 5s	46 **14**	8	White octagonal concrete tower; 26.	**AIS** (MMSI No 994402983).
17720 *M 4208*	**Popsong,** N. side of entrance.	35° 22.6′ N 126° 24.7′ E	**Fl.W.** period 4s	230 **70**	**21**	White concrete column; 16.	Visible 049°-159°.
17721 *M 4209.2*	Anma Hang, S. breakwater.	35° 20.7′ N 126° 00.6′ E	**Fl.R.** period 5s	49 **15**	5	Red round concrete tower; 33.	
17722 *M 4209.4*	-N. breakwater.	35° 20.7′ N 126° 00.5′ E	**Fl.G.** period 5s	52 **16**	5	Red round concrete tower; 33.	
17726 *M 4207*	Koryundo.	35° 34.4′ N 126° 14.4′ E	**Fl.W.** period 6s	115 **35**	8	White square concrete tower; 36.	
17726.5 *M 4207.2*	Pejam-yo.	35° 35.8′ N 126° 13.7′ E	**Fl.(2)W.** period 5s	49 **15**	8	Black round concrete tower, red band; 52.	
17727 *M 4206.7*	Kalmaeyo.	35° 37.1′ N 126° 14.6′ E	**Fl.(2)W.** period 10s	46 **14**	8	ISOLATED DANGER BRB, tower, topmark; 56.	
17727.5 *M 4206.95*	Taeri Hang, breakwater, head.	35° 34.2′ N 126° 16.1′ E	**Fl.G.** period 6s	43 **13**	9	White round concrete tower; 26.	
17727.6 *M 4206.955*	Wido.	35° 34.0′ N 126° 16.0′ E	**Fl.W.** period 4s	72 **22**	8	White round concrete tower; 33.	
17728 *M 4206.89*	Wi Do, on Pajanggeum Hang, breakwater.	35° 37.2′ N 126° 18.1′ E	**Fl.(2)G.** period 6s	43 **13**	9	White round tower; 26.	**AIS** (MMSI No 994403657).
	RACON		**B(– • • •)** period 20s		10		(3 & 10cm).
17729 *M 4206.9*	-Pajanggeum Hang, groin.	35° 37.1′ N 126° 18.1′ E	**Fl.(2)R.** period 6s	39 **12**	9	Red round concrete tower; 26.	
17731 *M 4207.3*	Heukseo.	35° 37.1′ N 126° 21.8′ E	**Fl.(2)W.** period 5s	66 **20**	8	ISOLATED DANGER BRB, beacon, topmark; 39.	Visible 223°-213°. **AIS** (MMSI No 994403658).
17732 *M 4207.4*	-Changun So.	35° 35.0′ N 126° 23.8′ E	**Fl.(2)W.** period 10s	49 **15**	8	ISOLATED DANGER BRB, beacon, topmark; 46.	
17733 *M 4206.83*	-Kokunsan Kundo.	35° 39.2′ N 126° 24.5′ E	**Fl.(2)W.** period 5s	56 **17**	8	ISOLATED DANGER BRB, beacon, topmark; 46.	
17736 *M 4207.5*	-Kaesom.	35° 36.0′ N 126° 28.0′ E	**Fl.W.** period 5s	56 **17**	8	White round fiberglass structure; 20.	
17737 *M 4207.65*	Kyongpo Hang, N. breakwater.	35° 37.3′ N 126° 27.7′ E	**Fl.G.** period 6s	56 **17**	8	White round concrete tower; 33.	
17738 *M 4207.6*	-S. breakwater, head.	35° 37.3′ N 126° 27.8′ E	**Fl.R.** period 6s	59 **18**	8	Red round concrete tower; 33.	**AIS** (MMSI No 994403656).
17744 *M 4206.6*	**Sangwangdung Do.**	35° 39.7′ N 126° 06.4′ E	**Fl.W.** period 5s	571 **174**	**20**	White round concrete tower; 20.	**AIS** (MMSI No 994403654).
17746.5 *M 4206.85*	Pian-do.	35° 43.6′ N 126° 27.6′ E	**Fl.W.** period 6s	56 **17**	8	White round concrete tower; 33.	
17748 *M 4206*	**Maldo.**	35° 51.5′ N 126° 18.9′ E	**Fl.W.** period 10s	197 **60**	**26**	White octagonal concrete tower; 85.	Visible 324°-276°. **AIS** (MMSI No 994403664). **Siren:** 1 bl. ev. 55s (bl. 5s, si. 50s). Storm signal.
	RACON		**C(– • – •)**		10		(3 & 10cm).
17749 *M 4206.1*	-W. breakwater.	35° 51.2′ N 126° 19.0′ E	**Fl.G.** period 5s	59 **18**	9	White round concrete tower; 33.	
17749.5 *M 4206.15*	-E. breakwater.	35° 51.3′ N 126° 19.0′ E	**Fl.R.** period 5s	59 **18**	8	Red round concrete tower; 33.	
17751 *M 4205.5*	Solp'un-so.	35° 51.8′ N 126° 21.0′ E	**Fl.(2)W.** period 10s	49 **15**	8	ISOLATED DANGER BRB, tower, topmark; 49.	
17752 *M 4206.3*	Sohoenggyong Do.	35° 51.3′ N 126° 23.7′ E	**Fl.W.** period 4s	98 **30**	8	White hexagonal concrete tower; 33.	Visible 270°-244°. **AIS** (MMSI No 994403655).

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			SOUTH KOREA				
17753 *M 4206.32*	Golseo.	35° 49.5′ N 126° 22.8′ E	**Fl.(2)W.** period 5s	62 **19**	8	ISOLATED DANGER BRB, tower, topmark; 72.	**AIS** (MMSI No 994403662).
17753.1 *M 4206.33*	Heukdo.	35° 49.6′ N 126° 22.3′ E	**Fl.(2)W.** period 10s	62 **19**	8	ISOLATED DANGER BRB, tower, topmark; 49.	**AIS** (MMSI No 994403661).
17754 *M 4206.35*	-Hoenggan Do.	35° 51.3′ N 126° 25.9′ E	**Fl.W.** period 6s	177 **54**	8	White round concrete tower; 26.	
17756 *M 4192*	-AVIATION LIGHT.	35° 55.3′ N 126° 36.9′ E	**Al.Oc.W.G.** period 10s	125 **38**		39.	
17756.6 *M 4192.52*	Bieung Hong, E. breakwater.	35° 56.0′ N 126° 31.8′ E	**Fl.R.** period 5s	56 **17**	8	Red round concrete tower; 39.	**AIS** (MMSI No 004406102).
17756.7 *M 4192.51*	-W. breakwater.	35° 56.0′ N 126° 31.6′ E	**Fl.G.** period 5s	56 **17**	8	White round concrete tower; 39.	**AIS** (MMSI No 004406103).
	GUNSAN HANG:						
17757 *M 4193.3*	-Detatched breakwater, S. head.	35° 58.7′ N 126° 29.5′ E	**Fl.(2)G.** period 6s	79 **24**	9	White round concrete tower; 66.	**AIS** (MMSI No 004406104).
	-RACON		**G(– – •)** period 30s		10		(3 & 10cm).
17757.1 *M 4193.35*	--N. head.	35° 59.8′ N 126° 30.9′ E	**Fl.Y.** period 5s	79 **24**	9	Yellow round concrete tower; 66.	**AIS** (MMSI No 004406105).
17758.1 *M 4193.2*	-**Gunjang Sinhang Man**, S. breakwater, head.	35° 58.5′ N 126° 30.8′ E	**Fl.R.** period 6s	75 **23**	**15**	Red round concrete tower; 62.	**AIS** (MMSI No 004406109).
17758.5 *M 4193.38*	-Myeongam.	35° 59.3′ N 126° 30.8′ E	**Fl.(2)W.** period 10s	62 **19**	7	ISOLATED DANGER BRB, tower, topmark; 82.	**AIS** (MMSI No 004406100).
17760 *M 4191*	-Yok′yong.	36° 02.2′ N 126° 30.8′ E	**Fl.W.** period 6s	56 **17**	8	White round concrete tower; 39.	
17760.4 *M 4190.78*	-Jukdo.	36° 02.5′ N 126° 31.7′ E	**Q.W.**	49 **15**	8	N. CARDINAL BY, tower, topmark; 49.	**AIS** (MMSI No 004406108).
17760.6 *M 4190.75*	-Cheonggangyeo.	36° 03.2′ N 126° 32.5′ E	**Q.(9)W.** period 15s	56 **17**	8	W. CARDINAL YBY, tower, topmark; 69.	**AIS** (MMSI No 004406107).
17760.8 *M 4190.73*	-Bakgeunyeo.	36° 03.0′ N 126° 33.8′ E	**Q.W.**	52 **16**	8	N. CARDINAL BY, tower, topmark.	**AIS** (MMSI No 004406106).
17761 *M 4193.6*	-No 6 wharf, A.	35° 58.5′ N 126° 32.8′ E	**Fl.(4)Y.** period 8s	30 **9**	8	Yellow pillar; 26.	**Horn:** 1 bl. ev. 20s (bl. 5s, si. 15s).
17762 *M 4193.63*	--B.	35° 58.5′ N 126° 33.8′ E	**Fl.(4)Y.** period 8s	30 **9**	8	Yellow round fiberglass tower; 20.	
17772 *M 4196*	-Kunsan Hang Ulho, B.	35° 58.8′ N 126° 36.5′ E	**Fl.R.** period 4s	46 **14**	9	Red round stone tower; 13.	**AIS** (MMSI No 994403659).
17774 *M 4195*	-Sea-berth No A.	35° 58.7′ N 126° 36.3′ E	**Fl.(3)Y.** period 7s	30 **9**	7	SPECIAL Y, tower, "X" topmark; 16.	**Horn:** 1 bl. ev. 20s (bl. 5s, si. 15s). Private light.
17774.5 *M 4194*	-Jetty.	35° 58.7′ N 126° 36.0′ E	**Fl.(4)Y.** period 8s	30 **9**	7	Yellow beacon; 20.	
17775 *M 4193.8*	-Hyundai Oil, seaberth.	35° 58.7′ N 126° 36.0′ E	**Fl.Y.** period 4s	33 **10**	7	Yellow round fiberglass tower; 16.	**Horn:** 1 bl. ev. 15s (bl. 5s, si. 10s).
17776 *M 4196.5*	-Gunsan, E. end.	35° 58.8′ N 126° 36.8′ E	**Fl.(4)Y.** period 8s	49 **15**	10	Yellow four-sided metal tower, dolphin; 33.	
17780 *M 4197*	-Changsan Do.	35° 58.6′ N 126° 37.0′ E	**Fl.R.** period 5s	56 **17**	8	Red hexagonal concrete tower; 46.	
17788 *M 4198*	-On drying rock, N. of Ip Iee Do (Pari Do).	35° 59.0′ N 126° 38.5′ E	**Fl.R.** period 4s	36 **11**	8	STARBOARD (B) R, tower, topmark; 36.	**AIS** (MMSI No 994403660).
17789 *M 4198.5*	-Training wall, head.	35° 59.2′ N 126° 39.5′ E	**Fl.(4)Y.** period 8s	33 **10**	7	Yellow round metal tower; 13.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			SOUTH KOREA				
17789.5 *M 4198.7*	--Tidal wall.	35° 59.4′ N 126° 39.4′ E	**Fl.(4)Y.** period 8s	33 **10**	7	Yellow round metal tower; 13.	
17790 *M 4198.8*	Gusan Hang, A.	35° 59.0′ N 126° 39.9′ E	**Fl.(4)Y.** period 8s	24 **7**	3	SPECIAL Y, beacon, "X" topmark; 52.	
17791 *M 4198.9*	-B.	35° 59.0′ N 126° 40.1′ E	**Fl.(4)Y.** period 8s	36 **11**	3	SPECIAL Y, beacon, "X" topmark; 62.	
17792 *M 4199*	-Chonmang San.	36° 00.3′ N 126° 40.3′ E	**Fl.G.** period 4s	49 **15**	8	PORT (B) G, tower, topmark; 43.	
17794	-Changhang Hang No A.	36° 00.5′ N 126° 40.9′ E	**Fl.(4)Y.** period 8s	11 **3**	7	Post.	Private light.
17795 *M 4201*	-Pier, head.	35° 59.3′ N 126° 41.7′ E	**Fl.(2)G.** period 6s	33 **10**	5	White round concrete tower; 13.	**AIS** (MMSI No 004406101).
17796 *M 4202*	-Breakwater, N. head.	35° 59.7′ N 126° 42.1′ E	**Fl.R.** period 4s	102 **31**	8	Red four-sided concrete tower; 66.	**AIS** (MMSI No 994403653).
17800 *M 4204*	-Minya Am.	35° 59.4′ N 126° 43.3′ E	**Fl.(2)W.** period 10s	30 **9**	8	ISOLATED DANGER BRB, tower, topmark; 36.	
17803 *M 4189.9*	Gwangam.	36° 09.9′ N 126° 29.5′ E	**Fl.R.** period 5s	52 **16**	6	STARBOARD (B) R, tower, topmark; 49.	**AIS** (MMSI No 994402682).
17804 *M 4190*	Yeon Do.	36° 04.9′ N 126° 26.2′ E	**Fl.W.** period 5s	636 **194**	8	White round concrete tower; 20.	**AIS** (MMSI No 994403652).
17806 *M 4190.6*	-N. breakwater.	36° 04.9′ N 126° 26.8′ E	**Fl.R.** period 6s	39 **12**	8	Red round concrete tower; 33.	
17808 *M 4190.5*	-S. breakwater.	36° 04.8′ N 126° 26.8′ E	**Fl.G.** period 6s	36 **11**	9	White four-sided concrete tower; 33.	
17812 *M 4206.4*	Shibidonga Do.	35° 59.3′ N 126° 13.3′ E	**Fl.W.** period 7s	299 **91**	11	White round concrete tower; 26.	**AIS** (MMSI No 994403651).
17816 *M 4188*	**Och'ong Do.**	36° 07.5′ N 125° 58.1′ E	**Fl.W.** period 12s	200 **61**	**26**	White round concrete tower; 39.	Visible 341°-224°. Storm signals. **AIS** (MMSI No 994403663). **Horn:** 1 bl. ev. 45s (bl. 5s, si. 40s).
17817 *M 4188.3*	-W. breakwater.	36° 06.8′ N 125° 59.2′ E	**Fl.G.** period 5s	59 **18**	9	White round concrete tower; 33.	
17817.2 *M 4188.7*	-E. breakwater.	36° 06.7′ N 125° 59.2′ E	**Fl.R.** period 4s	95 **29**	8	Red round concrete tower; 69.	
17818 *M 4188.5*	-Kajin So.	36° 06.3′ N 125° 59.9′ E	**Fl.W.** period 4s	95 **29**	8	White round concrete tower; 20.	**AIS** (MMSI No 994403650).
	-RACON		**T(–)**		10		(3 & 10cm).
17820 *M 4189.5*	Oeyon Do Hang, E. breakwater.	36° 13.4′ N 126° 04.8′ E	**Fl.R.** period 4s	36 **11**	5	Red round concrete tower; 33.	
17821 *M 4189.55*	-W. breakwater.	36° 13.4′ N 126° 04.8′ E	**Fl.(2)G.** period 6s	43 **13**	5	White round concrete tower; 33.	
17824 *M 4189*	-Breakwater, head.	36° 06.9′ N 125° 59.2′ E	**Fl.(2)G.** period 6s	46 **14**	9	White four-sided concrete tower; 39.	
17825 *M 4189.6*	Pulan Do.	36° 13.4′ N 126° 06.3′ E	**Fl.W.** period 6s	200 **61**	8	White round concrete tower; 26.	**AIS** (MMSI No 994402890).
17825.5 *M 4189.3*	Hangwon Hang, E. breakwater.	36° 09.5′ N 126° 30.4′ E	**Fl.(2)G.** period 6s	52 **16**	5	White round concrete tower; 36.	
17825.7 *M 4189.31*	-Breakwater.	36° 09.5′ N 126° 30.3′ E	**Fl.(2)R.** period 6s	59 **18**	5	Red round concrete tower; 36.	
17825.9 *M 4187.4*	Muchangpo.	36° 15.0′ N 126° 31.8′ E	**Q.W.**	52 **16**	8	N. CARDINAL BY, beacon, topmark; 66.	
17826 *M 4187.3*	Muchangpo Hang, breakwater.	36° 15.0′ N 126° 32.1′ E	**Fl.R.** period 6s	52 **16**	5	Red round concrete tower; 36.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			SOUTH KOREA				
17827 *M 4185.08*	Kodaedo Hang, breakwater.	36° 23.6′ N 126° 22.2′ E	**Fl.R.** period 6s	52 **16**	5	Red round concrete tower; 36.	
17827.1 *M 4185.105*	Oejanggodo, E.	36° 24.3′ N 126° 21.9′ E	**Fl.(2)W.** period 10s	43 **13**	8	ISOLATED DANGER BRB, beacon, topmark; 49.	
17827.15 *M 4184.45*	Oedo.	36° 27.2′ N 126° 18.5′ E	**Fl.W.** period 6s	171 **52**	8	White round concrete tower; 39.	
17827.5 *M 4185.1*	Oejanggodo.	36° 23.4′ N 126° 20.6′ E	**Fl.G.** period 4s	36 **11**	5	White round tower; 20.	
17827.7 *M 4185.6*	Sapsido, NW.	36° 22.0′ N 126° 21.6′ E	**Fl.R.** period 5s	46 **14**	5	STARBOARD (B) R, beacon, topmark; 59.	
17827.8 *M 4185.8*	Bapjakdo.	36° 20.6′ N 126° 23.6′ E	**Fl.(2)W.** period 5s	39 **12**	8	ISOLATED DANGER BRB, beacon, topmark; 52.	
17828 *M 4189.7*	-Nok To.	36° 16.1′ N 126° 16.2′ E	**Fl.G.** period 6s	56 **17**	7	Round concrete tower; 36.	
17829 *M 4189.74*	Chudo.	36° 17.3′ N 126° 17.9′ E	**Fl.G.** period 4s	43 **13**	5	PORT (B) G, tower, topmark; 56.	
17830 *M 4189.8*	**Taehwasa Do.**	36° 14.9′ N 126° 16.8′ E	**Fl.W.** period 10s	331 **101**	**17**	White four-sided concrete tower; 36.	
	RACON		**O(– – –)**		10		(3 & 10cm).
17831 *M 4189.63*	Sanghongseo.	36° 16.4′ N 126° 20.7′ E	**Fl.(2)W.** period 5s	49 **15**	8	ISOLATED DANGER BRB, tower, topmark; 72.	**AIS** (MMSI No 994402689).
17831.5 *M 4189.735*	Otakseo.	36° 21.4′ N 126° 14.5′ E	**Fl.(2)W.** period 5s	46 **14**	8	ISOLATED DANGER BRB, tower, topmark; 69.	**AIS** (MMSI No 994402688).
17832 *M 4187*	Sonyeoam.	36° 19.2′ N 126° 28.4′ E	**Fl.R.** period 4s	46 **14**	5	STARBOARD (B) R, tower, topmark; 56.	
	RACON		**Q(– – • –)**		10		(3 & 10cm).
17836 *M 4186*	T'aech'on Hang, breakwater.	36° 19.9′ N 126° 30.4′ E	**Fl.R.** period 6s	56 **17**	6	Red square metal tower; 43.	
17838 *M 4186.2*	-N. breakwater.	36° 19.9′ N 126° 30.3′ E	**Fl.G.** period 5s	39 **12**	5	White octagonal concrete tower; 26.	
17839 *M 4185.12*	-Oejukto.	36° 23.5′ N 126° 25.8′ E	**Fl.R.** period 4s	33 **10**	8	STARBOARD (B) R, tower, topmark; 39.	
17839.2 *M 4185.15*	-Ganseo.	36° 23.8′ N 126° 26.6′ E	**Fl.(2)W.** period 10s	49 **15**	8	ISOLATED DANGER BRB, tower, topmark; 49.	
17839.5 *M 4185.4*	-Range, front.	36° 25.0′ N 126° 29.5′ E	**F.R.**	82 **25**	4	White square framework tower, concrete base; 75.	Visible 019°-035°. Private light. **Radar reflector.**
17839.6 *M 4185.41*	--Rear, 750 meters 027° from front.	36° 25.4′ N 126° 29.6′ E	**F.R.**	105 **32**	4	White square framework tower, concrete base; 16.	Visible 019°-035°. Private light. **Radar reflector.**
17839.8 *M 4184.5*	Taean Bando, SW.	36° 37.4′ N 126° 17.0′ E	**Fl.W.** period 6s	56 **17**	8	White round concrete tower; 56.	
17840 *M 4154*	**Ong Do.**	36° 38.8′ N 126° 00.5′ E	**Fl.W.** period 15s	328 **100**	**26**	White round concrete tower; 82.	**AIS** (MMSI No 994402651). **Horn:** 1 bl. ev. 43s (bl. 3s, si. 40s).
	RACON		**Z(– – • •)** period 60s		10		(3 & 10cm).
17840.8 *M 4154.25*	Geomeunyo.	36° 39.1′ N 126° 07.2′ E	**Fl.(2)W.** period 5s	62 **19**	8	ISOLATED DANGER BRB, topmark; 52.	
17841 *M 4154.2*	Haengyo.	36° 39.2′ N 126° 09.8′ E	**Fl.(2)W.** period 10s	49 **15**	8	ISOLATED DANGER BRB, tower, topmark; 56.	

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			SOUTH KOREA				
17844 *M 4184*	**Kyongnyolbi.**	36° 37.5′ N 125° 33.6′ E	**Fl.W.** period 10s	351 **107**	**27**	White round concrete tower; 46.	Visible 308°-299°. **AIS** (MMSI No 994402895).
	RACON		**K(– • –)**		10		(3 & 10cm).
17848 *M 4185*	Amma Do.	36° 34.0′ N 126° 17.4′ E	**Fl.G.** period 6s	43 **13**	8	PORT (B) G, tower, topmark; 46.	**AIS** (MMSI No 994402696).
17849 *M 4154.22*	Gauido.	36° 41.0′ N 126° 04.5′ E	**Fl.G.** period 5s	49 **15**	5	PORT (B) G, tower, topmark; 69.	**AIS** (MMSI No 994402672).
17850 *M 4154.3*	Anhung Shin Hang, N. breakwater.	36° 40.6′ N 126° 07.6′ E	**Fl.G.** period 6s	56 **17**	5	White round concrete tower; 36.	
17851 *M 4154.4*	-S. breakwater.	36° 40.6′ N 126° 07.7′ E	**Fl.R.** period 6s	52 **16**	5	Red round concrete tower; 33.	
17852 *M 4154.5*	Anheung Hang, breakwater.	36° 40.8′ N 126° 09.3′ E	**Fl.(2)R.** period 6s	52 **16**	6	Red round concrete structure; 26.	
17853 *M 4154.69*	Yeoeundol Hang, breakwater.	36° 44.8′ N 126° 07.6′ E	**Fl.G.** period 4s	56 **17**	6	White octagonal concrete tower; 33.	
17853.5 *M 4153.3*	Heukdo.	36° 43.3′ N 125° 56.8′ E	**Fl.(2)W.** period 6s	328 **100**	8	White metal tower; 66.	
17854 *M 4153*	Kadae Am.	36° 46.4′ N 125° 58.7′ E	**Q.(3)W.** period 10s	49 **15**	8	E. CARDINAL BYB, tower, topmark; 56.	**AIS** (MMSI No 994402690).
	RACON		**X(– • • –)** period 60s		10		(3cm).
17856 *M 4152*	**Moktok To.**	36° 55.7′ N 125° 47.3′ E	**Fl.W.** period 20s	217 **66**	**28**	White round concrete tower; 20.	
	RACON		**Q(– – • –)**		10		(3 & 10cm).
17856.5 *M 4151*	Pan-so.	36° 58.1′ N 125° 51.2′ E	**Fl.(2)W.** period 10s	66 **20**	9	ISOLATED DANGER BRB, tower, topmark; 75.	**AIS** (MMSI No 994401036).
	RACON		**G(– – •)**		10		(3 & 10cm).
17858 *M 4155.1*	Chi-do.	37° 02.9′ N 125° 58.8′ E	**Fl.(2)W.** period 5s	49 **15**	8	ISOLATED DANGER BRB, pile, topmark; 79.	
17860 *M 4154.7*	-Manripo.	36° 47.0′ N 126° 08.0′ E	**Fl.R.** period 6s	42 **13**	5	Red round concrete tower; 26.	
17862 *M 4156.33*	-Taean Hang.	36° 55.4′ N 126° 11.0′ E	**Fl.G.** period 5s	36 **11**	5	Green round concrete tower; 52.	
17863 *M 4156.35*	Sindo Taseo.	36° 53.7′ N 126° 09.0′ E	**Fl.G.** period 6s	52 **16**	12	PORT (B) G, tower, topmark; 49.	
	RACON		**G(– – •)**		12		(3 & 10cm).
17863.2 *M 4330.4*	Jungnim Hang, breakwater.	34° 50.5′ N 128° 34.7′ E	**Fl.R.** period 4s	36 **11**	5	Red octagonal concrete tower; 26.	
17863.5 *M 4156.38*	Kudo.	36° 55.4′ N 126° 10.9′ E	**Fl.G.** period 5s	52 **16**	5	STARBOARD (B) G, tower, topmark; 46.	**AIS** (MMSI No 004406436).
17864 *M 4156*	**-An Do.**	36° 57.6′ N 126° 10.1′ E	**Fl.W.** period 10s	141 **43**	**21**	White round concrete tower; 59.	Storm signal.
	-RACON		**M(– –)** period 60s		10		(3cm).
17864.5 *M 4156.45*	Taesan Hang, T'aean Hwaryok No 1.	36° 54.8′ N 126° 14.3′ E	**Fl.(4) Y.** period 8s	39 **12**	7	Yellow round metal tower; 13.	
17864.6 *M 4156.4*	-No 2.	36° 54.7′ N 126° 14.1′ E	**Fl.(4)Y.** period 8s	39 **12**	7	Red round metal tower; 13.	
17865 *M 4156.6*	-Samsung Seaberth A.	37° 00.5′ N 126° 20.7′ E	**Fl.(4)Y.** period 8s	49 **15**	6	Yellow metal mast; 16.	

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			SOUTH KOREA				
17865.1 *M 4156.65*	--B.	37° 00.4′ N 126° 20.3′ E	**Fl.(4)Y.** period 8s	46 **14**	6	Yellow metal mast; 16.	**Horn:** 1 bl. ev. 20s (bl. 5s, si. 15s).
17865.8 *M 4156.66*	-Samsung Quay A.	37° 00.4′ N 126° 21.1′ E	**Fl.Y.** period 6s	20 **6**	7	Yellow round post; 20.	
17865.9 *M 4156.661*	-B.	37° 00.5′ N 126° 21.2′ E	**Fl.Y.** period 6s	20 **6**	7	Yellow round post; 20.	
17866 *M 4156.7*	-Taesan Seaberth A.	37° 01.4′ N 126° 21.6′ E	**Fl.Y.** period 4s	49 **15**	7	Yellow four-sided metal tower; 30.	**Horn:** 1 bl. ev. 30s (bl. 5s, si. 25s).
17866.1 *M 4156.75*	--B.	37° 01.0′ N 126° 21.1′ E	**Fl.Y.** period 4s	46 **14**	7	Yellow metal tower, dolphin; 23.	**Horn:** 1 bl. ev. 30s. (bl. 5s, si. 25s).
17866.2 *M 4156.912*	-Hyundai oil B.	37° 01.4′ N 126° 24.2′ E	**Fl.(2)Y.** period 5s	49 **15**	8	Yellow structure; 10.	
17867 *M 4156.9*	--A.	37° 01.1′ N 126° 24.9′ E	**Fl.(2)Y.** period 5s	36 **11**	8	Yellow structure; 10.	**Horn:** 1 bl. ev. 15s. (bl. 5s, si. 10s).
17867.1 *M 4156.97*	-Samgilpo Hang, breakwater.	37° 00.4′ N 126° 27.1′ E	**Fl.R.** period 6s	59 **18**	9	Red round concrete tower; 43.	
17868 *M 4156.3*	-**Chongkoktu.**	36° 53.1′ N 126° 10.7′ E	**Fl.W.** period 6s	79 **24**	**15**	White round concrete tower; 23.	**AIS**.
17892 *M 4155*	Ul To.	37° 01.2′ N 126° 00.0′ E	**Fl.W.** period 6s	758 **231**	8	White round concrete tower; 30.	
17893.5 *M 4156.48*	Daesan Hang.	36° 59.0′ N 126° 18.1′ E	**Fl.R.** period 5s	52 **16**	5	STARBOARD (B) R, tower, topmark; 52.	
17894 *M 4156.5*	Gain Seo.	37° 00.2′ N 126° 19.0′ E	**Fl.W.** period 5s	79 **24**	8	White round tower; 30.	**Radar reflector.**
	RACON		**C(– • – •)**		10		(3 & 10cm).
17895 *M 4149.3*	Udu-am.	37° 03.6′ N 126° 04.4′ E	**Fl.(2)W.** period 10s	52 **16**	6	ISOLATED DANGER BRB, beacon, topmark; 56.	**AIS** (MMSI No 994401034).
	RACON		**Y(– • – –)**		10		(3 & 10cm).
17896 *M 4157*	Changan So.	37° 04.6′ N 126° 17.6′ E	**Fl.(2)W.** period 5s	59 **18**	12	ISOLATED DANGER BRB, beacon, topmark; 69.	**AIS** (MMSI No 994402691).
	RACON		**G(– – •)**		10		Azimuth coverage 310°-317°. (3 & 10cm).
	PYONGTAEK HANG:						
17897 *M 4158.598*	-Seonggumi Hang.	37° 00.1′ N 126° 41.7′ E	**Fl.R.** period 4s	52 **16**	7	Red round concrete tower; 33.	
17897.5 *M 4158.57*	-Maehyangni.	37° 01.7′ N 126° 44.5′ E	**Fl.G.** period 6s	39 **12**	8	Green four-sided metal framework tower; 52.	
17898 *M 4158.59*	-Pang-do.	37° 00.6′ N 126° 43.5′ E	**Q.(6)+L.Fl.W.** period 15s	49 **15**	8	S. CARDINAL YB, tower, topmark; 62.	
	-RACON		**X(– • • –)** period 60s		10		(3 & 10cm).
17899 *M 4158.601*	-Dangjing Hang A.	37° 00.0′ N 126° 42.3′ E	**Fl.(4)Y.** period 8s	52 **16**	7	Yellow four-sided metal tower; 52.	
17900.5 *M 4158.602*	--B.	36° 59.5′ N 126° 43.3′ E	**Fl.(4)Y.** period 8s	59 **18**	7	Yellow octagonal metal tower; 33.	
17903 *M 4158.645*	-Godaeri.	36° 59.3′ N 126° 44.4′ E	**Fl.R.** period 4s	46 **14**	8	Red round concrete tower; 25.	
17904 *M 4158.648*	--Hang, breakwater, head.	36° 59.3′ N 126° 44.8′ E	**Fl.(2)R.** period 6s	62 **19**	8	Red round concrete tower; 39.	
17905 *M 4158.65*	-Dongbu Steel, A.	36° 59.2′ N 126° 44.9′ E	**Fl.(4)Y.** period 8s	43 **13**	9	Yellow round fiberglass tower; 23.	**Horn:** 1 bl. ev. 30s.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			SOUTH KOREA				
17906 *M 4158.662*	--B.	36° 59.2′ N 126° 45.0′ E	**Fl.(4)Y.** period 8s	52 **16**	7	Yellow metal tower; 33.	
17906.1 *M 4158.664*	--C.	36° 58.9′ N 126° 45.8′ E	**Fl.(4)Y.** period 8s	52 **16**	7	Yellow round metal tower; 33.	
17910.6 *M 4158.7*	-Haenjon, A.	37° 00.1′ N 126° 46.7′ E	**Fl.Y.** period 4s	39 **12**	9	Yellow metal tower, dolphin; 13.	
17910.7 *M 4158.71*	--B.	37° 00.0′ N 126° 46.8′ E	**Fl.Y.** period 6s	39 **12**	9	Yellow metal tower, dolphin; 13.	
17911 *M 4158.73*	-Korea Gas Seaberth, A.	37° 00.0′ N 126° 46.8′ E	**Fl.(2)Y.** period 6s	39 **12**	7	Yellow fiberglass tower; 13.	**Horn:** 1 bl. ev. 20s. (bl. 5s, si. 15s).
17911.1 *M 4158.74*	--B.	36° 59.9′ N 126° 47.0′ E	**Fl.(2)Y.** period 6s	39 **12**	7	Yellow fiberglass tower; 13.	
17911.4 *M 4158.77*	-Petroleum Development Corp., A.	36° 59.9′ N 126° 47.1′ E	**Fl.(4)Y.** period 8s	49 **15**	7	Yellow metal tower, dolphin; 16.	**Horn:** 1 bl. ev. 20s. (bl. 5s, si. 15s).
17911.45 *M 4158.78*	--B.	36° 59.8′ N 126° 47.2′ E	**Fl.(4)Y.** period 8s	49 **15**	7	Yellow metal tower, dolphin; 16.	
17911.5 *M 4158.79*	--C.	36° 59.7′ N 126° 47.2′ E	**Fl.Y.** period 4s	49 **15**	7	Yellow metal tower, dolphin; 23.	
17911.6 *M 4158.795*	-Seaberth, A.	36° 59.7′ N 126° 47.3′ E	**Fl.Y.** period 4s	49 **15**	9	Yellow metal tower, dolphin; 20.	**Horn:** 1 bl. ev. 50s. (bl. 5s, si. 45s).
17911.7 *M 4158.83*	--B.	36° 59.6′ N 126° 47.5′ E	**Fl.Y.** period 4s	49 **15**	6	Yellow metal tower, dolphin; 20.	
17911.9 *M 4158.81*	-SK Gas Berth.	36° 59.6′ N 126° 47.7′ E	**Fl.(4)Y.** period 8s	39 **12**	9	Yellow fiberglass tower; 13.	
17912 *M 4158.8*	-Asan Myoji.	36° 59.7′ N 126° 47.7′ E	**Fl.Y.** period 4s	46 **14**	7	Yellow round concrete tower; 28.	
17912.1 *M 4158.92*	-W. Docks, W. breakwater.	36° 59.5′ N 126° 47.9′ E	**Fl.(2)G.** period 6s	39 **12**	7	White round concrete tower; 23.	**Horn:** 1 bl. ev. 20s. (bl. 2s, si. 18s).
17912.2 *M 4158.93*	--E. breakwater.	36° 59.5′ N 126° 48.1′ E	**Fl.(2)R.** period 6s	39 **12**	8	Red round concrete tower; 23.	
17912.3 *M 4158.9*	-E. Docks, W. breakwater.	36° 59.3′ N 126° 48.6′ E	**Fl.(4)G.** period 8s	39 **12**	7	White round concrete tower; 23.	
17912.4 *M 4158.91*	--E. breakwater.	36° 59.2′ N 126° 48.8′ E	**Fl.(4)R.** period 8s	39 **12**	8	Red round concrete tower; 23.	
17912.5 *M 4158.86*	-Hanjin-gak.	36° 58.9′ N 126° 46.8′ E	**Q.W.**	49 **15**	9	N. CARDINAL BY, tower, topmark; 56.	
17912.6 *M 4158.87*	-Hanjin.	36° 58.7′ N 126° 48.1′ E	**Q.W.**	46 **14**	9	N. CARDINAL BY, tower, topmark; 59.	
17912.65 *M 4158.865*	--Jetty, head.	36° 58.2′ N 126° 47.0′ E	**Fl.Y.** period 4s	36 **11**	7	Yellow metal post; 39.	
17912.7 *M 4158.963*	-Hanjin-ri.	36° 57.8′ N 126° 48.3′ E	**Q.(3)W.** period 10s	43 **13**	8	E. CARDINAL BYB, tower, topmark; 52.	
17912.8 *M 4158.96*	-Yong-am.	36° 58.0′ N 126° 49.0′ E	**Q.(9)W.** period 15s	52 **16**	8	W. CARDINAL YBY, tower, topmark; 46.	
17913 *M 4158.95*	-N. breakwater.	36° 58.1′ N 126° 49.3′ E	**Fl.R.** period 4s	56 **17**	5	Red round concrete tower; 36.	
17913.1 *M 4158.965*	-Haengdam-do.	36° 56.9′ N 126° 47.9′ E	**Fl.R.** period 6s	39 **12**	8	Red four-sided metal framework tower, triangular daymark point up; 56.	
17913.5 *M 4158.97*	-Seohae Bridge, W. span.	36° 56.7′ N 126° 49.5′ E	**F.W.**	141 **43**	8	White circular daymark, red stripes.	F.R. 43m 8M and F.G. 43m 8M mark width of navigable span. Fl.Y. 4s 6M mark bridge piers.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			SOUTH KOREA				
17914 *M 4158.975*	--E. span.	36° 57.1′ N 126° 50.4′ E	**Iso.W.** period 4s	203 **62**	6	White circular daymark, red stripes.	Iso.R., Iso.G., Iso.Y 4s 58m 6M mark bridge span.
17920 *M 4150*	Minotan.	37° 07.4′ N 125° 55.6′ E	**Fl.(2)W.** period 10s	43 **13**	8	ISOLATED DANGER BRB, tower, topmark; 26.	
17924 *M 4155.4*	Kakhul To.	37° 06.9′ N 126° 01.3′ E	**Fl.W.** period 6s	112 **34**	8	White round concrete tower; 23.	
17926 *M 4160*	Haksanso.	37° 07.3′ N 126° 31.8′ E	**Q.W.**	49 **15**	9	N. CARDINAL BY, tower, topmark; 65.	
	RACON		**Y(– • – –)**		10		(3 & 10cm).
17927 *M 4159.5*	Ippado Hang.	37° 06.3′ N 126° 32.6′ E	**Fl.G.** period 5s	46 **14**	6	White round metal pipe; 27.	
17928 *M 4159*	Tori Do.	37° 07.1′ N 126° 36.8′ E	**Fl.W.** period 6s	190 **58**	10	White octagonal concrete tower; 52.	
17929 *M 4162.82*	Jebudo Hang.	37° 10.8′ N 126° 37.3′ E	**Fl.R.** period 4s	52 **16**	8	Red round concrete tower; 31.	
17930 *M 4162.79*	Tando Hang.	37° 11.4′ N 126° 38.7′ E	**Fl.(2)G.** period 6s	69 **21**	6	White round metal pipe; 38.	
17931 *M 4162.77*	Jeongok.	37° 11.2′ N 126° 38.9′ E	**Fl.(2)R.** period 6s	59 **18**	8	Red round metal pipe; 39.	
17931.5 *M 4162.78*	-Hang.	37° 11.3′ N 126° 39.0′ E	**Fl.(4)Y.** period 8s	33 **10**	7	Yellow round metal pipe; 28.	
17932 *M 4158*	**Bu Do.**	37° 09.0′ N 126° 20.9′ E	**Fl.W.** period 15s	125 **38**	**27**	White round stone tower; 52.	**AIS** (MMSI No 004405001). Storm signals. **Horn:** 1 bl. ev. 40s (bl. 5s, si. 35s).
	RACON		**B(– • • •)** period 40s		10		(3cm).
17934 *M 4163*	Tongso.	37° 11.2′ N 126° 22.0′ E	**Fl.G.** period 5s	39 **12**	6	PORT (B) G, tower, topmark; 52.	
17936 *M 4158.3*	Pungdo.	37° 07.0′ N 126° 23.1′ E	**Fl.W.** period 6s	125 **38**	8	White octagonal concrete tower; 32.	**AIS** (MMSI No 994401002).
17936.3 *M 4158.4*	-Breakwater.	37° 06.8′ N 126° 23.7′ E	**Fl.(2)R.** period 6s	49 **15**	8	Red round concrete tower; 30.	
17936.5 *M 4158.47*	-S.breakwater.	37° 06.7′ N 126° 23.7′ E	**Fl.(2)G.** period 6s	49 **15**	8	White round concrete tower; 33.	
17937 *M 4161*	Mallyukdo.	37° 07.0′ N 126° 27.2′ E	**Fl.W.** period 5s	138 **42**	8	White round tower; 33.	
	RACON		**O(– – –)**		3		(3 & 10cm).
17938 *M 4162.62*	**Tangjin,** 143°12′.	37° 03.7′ N 126° 30.5′ E	**Dir.W.R.G.**	105 **32**	W. **21** R. **18** G. **18**	White four-sided metal tower; 85.	F.R. 140°24′-141°24′, F.W.-144°54′, F.G.-145°54′.
	Range, front.		**F.W.**		**23**		
17938.05 *M 4162.621*	-Rear, 143° from front.	37° 03.4′ N 126° 30.8′ E	**F.W.**	125 **38**	**23**	Green four-sided metal tower; 98.	
17938.2 *M 4162*	-B.	37° 03.9′ N 126° 30.8′ E	**Fl.(4)Y.** period 8s	59 **18**	7	Yellow round structure; 23.	
17938.3 *M 4162.72*	Gukhwado.	37° 03.1′ N 126° 32.9′ E	**Q.(6)+L.Fl.W.** period 15s	49 **15**	9	S. CARDINAL YB, beacon, topmark; 62.	
17938.35 *M 4162.75*	-Breakwater.	37° 03.7′ N 126° 33.6′ E	**Fl.Y.** period 6s	43 **13**	8	Yellow round concrete tower; 39.	
17938.4 *M 4162.76*	Janggo Hang.	37° 02.2′ N 126° 33.8′ E	**Fl.R.** period 4s	46 **14**	5	Red round metal pipe; 27.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			SOUTH KOREA				
17940 *M 4158.2*	Mudang Seo.	37° 09.4′ N 126° 25.0′ E	**Fl.(2)W.** period 5s	39 **12**	8	ISOLATED DANGER BRB, tower, topmark; 62.	**AIS** (MMSI No 994401037).
	RACON		**C(– • – •)**		10		(3 & 10cm).
17944 *M 4164*	-Paek Am, N. edge of reef.	37° 13.8′ N 126° 24.5′ E	**Fl.(2)G.** period 6s	59 **18**	7	PORT (B) G, beacon, topmark; 46.	
	-RACON		**Z(– – • •)** period 30s		10		(3cm).
17949 *M 4164.25*	-Yonghung-Do bridge, center span.	37° 15.3′ N 126° 30.4′ E	**F.W.**	92 **28**	5	White round daymark, red stripes.	F.R. 20m 5M and F.G. 20m 4M mark width of navigable span. Fl.Y. 4s 20m 6M mark piers close E. and W.
17953 *M 4164.3*	-Chi-do bridge, center span.	37° 14.0′ N 126° 32.4′ E	**F.W.**	39 **12**	5	White round daymark, red stripes.	F.R. 8m 5M and F.G. 8m 4M mark width of navigable span. F.Y. 8m 6M mark piers.
	INCH'ON HANG APPROACH:						
17954 *M 4165*	-Seo Sudo.	37° 19.7′ N 126° 23.5′ E	**Fl.R.** period 6s	56 **17**	8	STARBOARD (B) R, beacon, topmark; 36.	**AIS** (MMSI No 994401038).
	-RACON		**K(– • –)** period 60s		10		(3cm).
17956 *M 4166*	Pukchangja Yo.	37° 19.8′ N 126° 28.7′ E	**Fl.(2)W.** period 5s	59 **18**	11	ISOLATED DANGER BRB, beacon, topmark; 46.	
	RACON		**X(– • • –)** period 30s		10		(3cm).
17956.5 *M 4164.5*	Namjangjaso.	37° 18.9′ N 126° 28.8′ E	**Oc.R.** period 4s	59 **18**	7	Red round concrete tower; 49.	
17957 *M 4170.43*	-Sorae Pogu, Korea Gas, A.	37° 20.3′ N 126° 34.9′ E	**Fl.(4)Y.** period 8s	39 **12**	7	Yellow round fiberglass tower; 13.	**Horn:** 1 bl. ev. 50s (bl. 5s, si. 45s).
17957.1 *M 4170.44*	---B.	37° 20.3′ N 126° 35.2′ E	**Fl.(4)Y.** period 8s	39 **12**	7	Yellow round fiberglass tower; 13.	
17957.2 *M 4170.6*	---Jetty.	37° 20.7′ N 126° 36.1′ E	**Fl.G.** period 4s	33 **10**	6		
17957.4 *M 4170.5*	--Hanguk Gas, C.	37° 20.3′ N 126° 35.3′ E	**Fl.Y.** period 6s	39 **12**	7	Yellow round fiberglass tower; 13.	**Horn:** 1bl. ev. 30s (bl. 5s, si. 25s).
17957.5 *M 4170.45*	---D.	37° 20.3′ N 126° 35.6′ E	**Fl.Y.** period 6s	39 **12**	7	Yellow round fiberglass tower; 13.	
17957.6 *M 4170.53*	Korean Gas Wharf A.	37° 20.3′ N 126° 36.4′ E	**Fl.(4)Y.** period 8s	52 **16**	7	Metal tower; 23.	
17957.7 *M 4170.56*	-B.	37° 20.3′ N 126° 36.6′ E	**Fl.(4)Y.** period 8s	52 **16**	7	Metal tower; 23.	**Horn:** 1 bl. ev. 20s (bl. 5s, si. 15s).
17960 *M 4167*	**-P'almi Do.**	37° 21.5′ N 126° 30.7′ E	**Fl.W.** period 10s	279 **85**	**27**	White round concrete tower; 85.	**Horn:** 1 bl. ev. 30s (bl. 5s, si. 25s). Storm signal.
17960.1 *M 4167.4*	-Haerido.	37° 21.6′ N 126° 26.5′ E	**Fl.G.** period 6s	69 **21**	8	White round concrete tower; 59.	Visible 227°-126°.
17961 *M 4167.3*	-Paedangcha.	37° 22.9′ N 126° 27.1′ E	**Fl.(2)W.** period 5s	43 **13**	8	ISOLATED DANGER BRB, beacon, topmark; 39.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			SOUTH KOREA				
	INCH'ON HANG:						
17961.1 *M 4170.64*	-Inchon Grand Bridge, W. span.	37° 25.0′ N 126° 33.7′ E	**Q.W.**	220 **67**	5	Red circular daymark, white stripes.	Iso.Y. 4s 6m 6M mark piers and span. Iso.Y. 4s 3m 6M collision prevention lights.
			Q.R.	226 **69**	5	Red triangular daymark point up.	
			Q.G.	210 **64**	5	Green square daymark.	
17961.15 *M 4170.65*	--Center span.	37° 24.8′ N 126° 34.0′ E	**Q.W.**	256 **78**	5	Red circular daymark, white stripes.	
			Q.R.	240 **73**	5	Red triangular daymark point up.	
			Q.G.	240 **73**	5	Green square daymark.	
17961.2 *M 4170.66*	--E. span.	37° 24.7′ N 126° 34.3′ E	**Q.W.**	220 **67**	5	Red circular daymark, white stripes.	Iso.Y. 4s 6M mark piers and span. Collision prevention lights.
			Q.R.	210 **64**	5	Red triangular daymark point up.	
			Q.G.	226 **69**	5	Green square daymark.	
17962 *M 4170.92*	-Seaberth, A.	37° 26.0′ N 126° 36.5′ E	**Fl.(2)Y.** period 6s	39 **12**	7	Yellow metal tower; 13.	**Horn:** 1 bl. ev. 50s (bl. 5s, si. 45s).
17962.5 *M 4170.94*	--B.	37° 26.0′ N 126° 36.7′ E	**Fl.(2)Y.** period 6s	49 **15**	7	Yellow metal tower; 23.	
17962.7 *M 4170.9*	-Tongyang Cement Berth.	37° 26.1′ N 126° 36.8′ E	**Fl.Y.** period 5s	36 **11**	7	Yellow round fiberglass tower; 13.	**Horn:** 1 bl. ev. 30s (bl. 5s, si. 25s).
17962.8 *M 4172.16*	-Ssangyong Cement Berth, A.	37° 26.3′ N 126° 36.7′ E	**Fl.(4)Y.** period 8s	52 **16**	7	SPECIAL Y, tower, "X" topmark; 13.	**Horn:** 1 bl. ev. 20s (bl. 5s, si. 15s).
17962.9 *M 4172.18*	--B.	37° 26.3′ N 126° 36.8′ E	**Fl.(4)Y.** period 8s	52 **16**	7	SPECIAL Y, tower, "X" topmark; 13.	
17962.95 *M 4172.153*	-Inchon Namhang, A.	37° 26.3′ N 126° 35.7′ E	**Fl.(4)Y.** period 8s	36 **11**	7	Yellow round fiberglass tower; 13.	
17962.96 *M 4172.155*	--B.	37° 26.3′ N 126° 36.1′ E	**Fl.(3)Y.** period 7s	36 **11**	7	Yellow post; 13.	
17963 *M 4171*	-Coal Wharf, A.	37° 26.3′ N 126° 35.2′ E	**Fl.Y.** period 7s	49 **15**	**20**	SPECIAL Y, tower, "X" topmark; 30.	
17963.5 *M 4171.2*	--B.	37° 26.5′ N 126° 35.2′ E	**Fl.Y.** period 5s	46 **14**	7	SPECIAL Y, tower, "X" topmark; 26.	
17964.1 *M 4171.5*	-Dolphin.	37° 26.6′ N 126° 35.5′ E	**Fl.(4)Y.** period 8s	36 **11**	8	Yellow metal post; 13.	
17964.5 *M 4172.1*	-S. K Seaberth.	37° 26.8′ N 126° 35.5′ E	**Fl.Y.** period 4s	39 **12**	7	SPECIAL Y, sphere, "X" topmark; 13.	
17965 *M 4172.15*	-Ssangyong.	37° 27.0′ N 126° 35.5′ E	**Fl.Y.** period 4s	52 **16**	8	SPECIAL Y, tower, "X" topmark; 10.	Private light.
17965.5 *M 4173.3*	-E. breakwater.	37° 27.3′ N 126° 35.5′ E	**Fl.R.** period 5s	59 **18**	9		
17966 *M 4173.35*	-International Ferry Wharf, A.	37° 27.3′ N 126° 35.6′ E	**Fl.(2)Y.** period 6s	33 **10**	7	Yellow metal tower; 16.	
17966.5 *M 4173.36*	--B.	37° 27.3′ N 126° 35.7′ E	**Fl.(2)Y.** period 6s	33 **10**	7	Yellow four-sided metal tower; 16.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			SOUTH KOREA				
17967 *M 4173.4*	-Sowolmi-do, S. breakwater.	37° 27.4′ N 126° 35.7′ E	**Fl.G.** period 5s	66 **20**	5	White round concrete tower; 49.	
17967.5 *M 4173.5*	---Head.	37° 27.7′ N 126° 35.5′ E	**Fl.(3)R.** period 7s	46 **14**	9	Red octagonal concrete tower; 30.	
17968 *M 4173.52*	--N. breakwater, head.	37° 27.9′ N 126° 35.5′ E	**Fl.(3)G.** period 7s	46 **14**	5	White octagonal concrete tower; 30.	
17968.5 *M 4173.6*	-Lock Gate, S. breakwater.	37° 27.9′ N 126° 35.6′ E	**Fl.R.** period 5s	52 **16**	**18**	Red square concrete structure; 30.	Fl.W., Fl.R., Fl.G. mark W. end of Lock complex.
17969 *M 4173.8*	--N. breakwater.	37° 28.1′ N 126° 35.7′ E	**Fl.G.** period 5s	39 **12**	**17**	White octagonal concrete tower; 30.	
17969.5 *M 4175*	-Inner Harbor, Korea TBT, head.	37° 28.4′ N 126° 36.7′ E	**Fl.Y.** period 4s	30 **9**	7	SPECIAL Y, tower, "X" topmark; 10.	
17970 *M 4174.5*	--Taehan Silo, head.	37° 28.4′ N 126° 36.6′ E	**Fl.Y.** period 6s	30 **9**	7	SPECIAL Y, tower, "X" topmark; 10.	
17970.5 *M 4175.2*	**-Hojeong, A.**	37° 28.7′ N 126° 35.7′ E	**Fl.Y.** period 6s	52 **16**	**18**	SPECIAL Y, tower, "X" topmark; 10.	
17971 *M 4175.4*	--B.	37° 28.7′ N 126° 35.7′ E	**Fl.Y.** period 8s	52 **16**	**18**	SPECIAL Y, tower, "X" topmark; 10.	
17971.5 *M 4174*	-Sodu Am.	37° 28.9′ N 126° 35.8′ E	**Fl.R.** period 4s	52 **16**	5	Red round concrete tower; 52.	
17972 *M 4176*	**-Chagyak To.**	37° 29.8′ N 126° 35.4′ E	**Fl.W.** period 10s	190 **58**	**17**	White octagonal concrete tower; 66.	
17973 *M 4176.3*	-Inchon Hang.	37° 29.8′ N 126° 36.3′ E	**Fl.W.** period 5s	39 **12**	8	White round concrete tower; 23.	
	-RACON		**Q(– – • –)**		10		(3 & 10cm).
17976 *M 4176.5*	-Air Seaberth, A.	37° 29.9′ N 126° 36.2′ E	**Fl.(4)Y.** period 8s	43 **13**	7	Yellow fiberglass tower; 16.	**Horn:** 1 bl. ev. 20s (bl. 5s, si. 15s).
17980 *M 4176.7*	--B.	37° 30.0′ N 126° 36.2′ E	**Fl.Y.** period 6s	43 **13**	8	Yellow fiberglass tower; 16.	**Horn:** 1 bl. ev. 43s. (bl. 5s, si. 38s). 90 meters N. of light.
17983 *M 4177*	-Inchon Oil Refinery, E.	37° 30.3′ N 126° 36.2′ E	**Fl.(4)Y.** period 8s	43 **13**	7	Yellow square metal tower; 13.	
17984 *M 4178*	--A.	37° 30.3′ N 126° 36.2′ E	**Fl.Y.** period 4s	26 **8**	7	SPECIAL Y, tower, "X" topmark; 13.	
17988 *M 4178.4*	--B.	37° 30.4′ N 126° 36.2′ E	**Fl.Y.** period 6s	26 **8**	7	SPECIAL Y, tower, "X" topmark; 13.	**Horn:** 1 bl. ev. 43s (bl. 5s, si. 38s).
17989 *M 4178.5*	--C.	37° 30.5′ N 126° 36.1′ E	**Fl.(3)Y.** period 7s	33 **10**	7	SPECIAL Y, tower, "X" topmark; 20.	
17990 *M 4178.6*	--D.	37° 30.6′ N 126° 36.1′ E	**Fl.(2)Y.** period 6s	33 **10**	7	Yellow square metal tower; 20.	
17992 *M 4179.2*	-Hwaryok, A.	37° 30.6′ N 126° 36.1′ E	**Fl.Y.** period 4s	36 **11**	8	Yellow square metal tower; 13.	**Horn:** 1 bl. ev. 20s (bl. 2s, si. 18s).
17996 *M 4179*	--B.	37° 30.8′ N 126° 36.1′ E	**Fl.Y.** period 6s	36 **11**	8	Yellow square metal tower; 13.	
18033 *M 4180*	Yeongjongdo Bridge.	37° 32.7′ N 126° 35.0′ E	**F.W.**	128 **39**	6	White circular daymark, red stripes.	F.R. 35m 6M and F.G. 35m 6M mark width of navigable span. Fl.Y. 4s 6m 6M mark piers.
	RACON		**C(– • – •)**		10		(3 & 10cm).
18035 *M 4146.58*	Sinsidoyeondo Bridge.	37° 31.8′ N 126° 26.1′ E	**F.W.**	23 **7**	7	White circular daymark, red stripes.	F.R. 3m 5M and F.G. 3m 5M mark width of navigable span. F.Y. 3m 6M mark piers.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			SOUTH KOREA				
18040 *M 4148*	**-Sonmi Do.**	37° 17.3′ N 126° 04.7′ E	**Fl.W.** period 12s	541 **165**	**18**	White round concrete tower; 62.	Visible 351°-281°.
18044 *M 4155.6*	-Seongab Do.	37° 05.5′ N 126° 05.1′ E	**Fl.W.** period 5s	164 **50**	8	White concrete tower; 30.	
18048 *M 4149*	-Tokchok Pukni, breakwater.	37° 15.2′ N 126° 07.3′ E	**Fl.R.** period 4s	49 **15**	5	Red round concrete tower; 23.	
18049 *M 4149.2*	-S.	37° 12.8′ N 126° 05.5′ E	**Fl.(2)W.** period 10s	43 **13**	8	ISOLATED DANGER BRB, tower, topmark; 66.	
18050 *M 4149.4*	Soyari.	37° 13.4′ N 126° 09.4′ E	**Fl.R.** period 4s	39 **12**	5	Red round concrete tower; 49.	
18051 *M 4149.1*	Dohang Sudo.	37° 13.8′ N 126° 10.2′ E	**Fl.(2)R.** period 6s	49 **15**	5	STARBOARD (B) R, tower, topmark; 52.	
18052 *M 4168.5*	Soya Do.	37° 12.5′ N 126° 11.6′ E	**Fl.W.** period 4s	79 **24**	9	White octagonal concrete tower; 33.	**AIS** (MMSI No 004405006).
18056 *M 4168*	-Tongbaek To.	37° 11.8′ N 126° 12.6′ E	**Fl.W.** period 5s	115 **35**	9	White octagonal concrete tower; 43.	
	-RACON		**Q(– – • –)**		10		(3 & 10cm).
18060 *M 4170*	-Ijak To.	37° 11.0′ N 126° 15.2′ E	**Fl.G.** period 4s	49 **15**	6	PORT (B) G, tower, topmark; 46.	
18062 *M 4170.4*	-Kwangyo.	37° 10.3′ N 126° 17.2′ E	**Fl.R.** period 5s	43 **13**	5	Red beacon, triangular daymark point up; 52.	
18063 *M 4170.2*	-Haejonso.	37° 11.0′ N 126° 17.8′ E	**Fl.(2)W.** period 10s	39 **12**	8	ISOLATED DANGER BRB, beacon, topmark; 46.	
18063.5 *M 4163.5*	-Wolamdu, on islet.	37° 14.2′ N 126° 19.1′ E	**Fl.R.** period 5s	33 **10**	6	STARBOARD (B) R, beacon, topmark; 46.	
18063.7 *M 4163.7*	-Chawolto.	37° 13.5′ N 126° 21.2′ E	**Fl.(3)G.** period 7s	39 **12**	5	PORT (B) G, tower, topmark; 52.	**AIS** (MMSI No 994401035).
	-RACON		**M(– –)**		10		(3 & 10cm).
18064 *M 4169*	-Mukt'ong Do.	37° 16.4′ N 126° 16.6′ E	**Fl.W.** period 6s	85 **26**	8	White round concrete tower; 30.	
18068 *M 4169.5*	Sochochi Do.	37° 18.8′ N 126° 16.5′ E	**Fl.W.** period 4s	89 **27**	8	White square tower; 26.	
18069 *M 4169.7*	-Chociam.	37° 19.7′ N 126° 13.4′ E	**Fl.(2)W.** period 5s	46 **14**	8	ISOLATED DANGER BRB, beacon, topmark; 49.	
	-RACON		**C(– • – •)**		10		(3 & 10cm).
18076 *M 4146*	-Sin Do.	37° 30.5′ N 126° 02.7′ E	**Fl.W.** period 6s	161 **49**	8	White round concrete tower; 20.	
18076.5	Songmodo.	37° 45.9′ N 126° 20.5′ E	**Fl.R.** period 6s	39 **12**	5	STARBOARD (B) R, beacon; 63.	
18077 *M 4146.5*	-Soiyo.	37° 36.1′ N 126° 15.2′ E	**Fl.(3)W.** period 10s	43 **13**	8	Black concrete column, red band, double ball topmark; 46.	
			NORTH KOREA				
18080 *M 4145*	-Soyonp'yong.	37° 36.2′ N 125° 43.1′ E	**Fl.(2)W.** period 6s	128 **39**	8	White round concrete tower; 23.	

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(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			NORTH KOREA				
18083 *M 4145.5*	Nounso.	37° 34.9′ N 125° 43.0′ E	**Fl.(2)W.** period 10s	39 **12**	8	ISOLATED DANGER BRB, beacon, topmark; 52.	
	RACON		**N(– •)**		10		(3 & 10cm).
18087 *M 4137.2*	--Yonpang, S. breakwater.	37° 39.3′ N 125° 42.8′ E	**Fl.G.** period 6s	43 **13**	8	White octagonal concrete tower; 30.	
18088 *M 4137.4*	--E. breakwater, head.	37° 39.5′ N 125° 42.8′ E	**Fl.R.** period 6s	49 **15**	7	Red octagonal concrete tower; 33.	
	HAEJU MAN:						
18093 *M 4138*	-Haricho.	37° 45.8′ N 125° 37.8′ E	**Fl.W.** period 12s	30 **9**	5	Red round concrete tower; 56.	
18096 *M 4140*	-Jincho.	37° 48.5′ N 125° 43.3′ E	**Fl.W.** period 12s	30 **9**	5	Black round concrete tower; 52.	
18103 *M 4135.8*	Yonggipo Hang, outer breakwater, S. head.	37° 57.2′ N 124° 44.4′ E	**Fl.R.** period 5s	49 **15**	8	Red round concrete tower; 30.	
18103.1 *M 4135.85*	-Inner breakwater, head.	37° 57.2′ N 124° 44.3′ E	**Fl.G.** period 5s	49 **15**	9	White round concrete tower.	
18104 *M 4136*	**Soch'ong Do.**	37° 45.6′ N 124° 43.7′ E	**Fl.(4)W.** period 40s	328 **100**	**19**	White round concrete tower; 59.	Visible 254°-205°. **Horn:** 1 bl. ev. 45s. (bl. 5s, si. 40s).
	RACON		**K(– • –)**		10		(3 & 10cm).
18105	**Monggumpo.**	38° 11.3′ N 124° 47.1′ E	**Fl.(2)W.** period 30s	141 **43**	**20**		**Siren.**
18106	**Oryuji Gi.**	38° 20.7′ N 124° 51.4′ E	**Fl.W.** period 15s		**15**		
	TAEDONG GANG:						
18112 *M 4116*	**-So Do.**	38° 33.0′ N 124° 45.8′ E	**Fl.W.** period 20s fl. 1s, ec. 19s	348 **106**	**15**	White round concrete tower; 30.	Visible 346°-268°.
18116 *M 4118*	**-Chamae Do.**	38° 40.8′ N 124° 58.6′ E	**Fl.W.** period 18s	138 **42**	**17**	White round concrete tower; 30.	Visible 359°-279°. **Horn.**
18118 *M 4117.5*	-Kuro Iso.	38° 35.7′ N 124° 57.4′ E	**Fl.W.** period 9s		5		
18118.5 *M 4116.5*	-Huibonggang, SE. point of Chodo.	38° 30.3′ N 124° 53.8′ E	**Fl.W.** period 3s	118 **36**	10	White octagonal concrete tower; 30.	
18119 *M 4117*	-Songmun Am.	38° 30.7′ N 124° 54.3′ E	**Fl.W.** period 10s		5		
18120 *M 4119*	-Toku Somu.	38° 45.0′ N 124° 58.1′ E	**Fl.W.** period 15s	302 **92**	10		
18124 *M 4120*	-Ch'an Do.	38° 41.0′ N 125° 06.9′ E	**Fl.W.** period 15s	144 **44**	10	White round concrete tower; 16.	Visible 040°-308°..
18128 *M 4122*	-Chiri Do, on islet.	38° 42.2′ N 125° 08.4′ E	**Fl.W.** period 12s	66 **20**	10	White octagonal concrete tower; 26.	
18132 *M 4126*	**-P'i Do.**	38° 40.8′ N 125° 10.5′ E	**Fl.(2)W.** period 30s	282 **86**	**25**	White square concrete tower; 108.	
18136 *M 4128*	-Orip'o-ri, on point.	38° 39.5′ N 125° 13.4′ E	**F.W.**	118 **36**	5	White square concrete tower; 23.	

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(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			NORTH KOREA				
18148 *M 4132*	-Namp'o, Bu Pibalto.	38° 43.4′ N 125° 24.5′ E	**Fl.W.** period 9s	85 **26**	4	Framework tower, white hexagonal concrete tower; 36.	
18149 *M 4112.5*	-Taegamdo.	39° 28.7′ N 125° 06.9′ E	**Fl.W.** period 12s		6		
	YALU RIVER:						
18152 *M 4113*	-Nap To, on islet.	39° 16.2′ N 124° 43.3′ E	**Fl.W.** period 5s		10		
18156 *M 4112*	**-Taehwa Do.**	39° 26.4′ N 124° 35.2′ E	**F.W.**	312 **95**	**20**	White hexagonal metal framework tower; 79.	Visible 324°-188°.
18160 *M 4104*	**-Suun Do**, in E. channel of Yalu River entrance.	39° 41.4′ N 124° 24.5′ E	**Fl.W.** period 10s	157 **48**	**20**	White round concrete tower; 26.	Visible 345°-189°.
18164 *M 4105*	-Un Do (Un To), summit of island.	39° 43.9′ N 124° 24.1′ E	**Fl.(2)W.** period 6s 2 fl. 1.5s, ec. 4.5s	83 **25**	13	White square concrete tower; 23.	
18166 *M 4106*	-Munbakdo.	39° 49.6′ N 124° 19.7′ E	**Fl.W.** period 3s		6		
18168 *M 4107*	-Sampo.	39° 55.6′ N 124° 21.2′ E	**Iso.W.** period 6s	203 **62**	12	Red hexagonal masonry tower; 33.	
18176 *M 4100*	-Maan Do, in W. channel of Yalu River.	39° 48.2′ N 124° 11.2′ E	**Fl.W.** period 5s	237 **72**	10	White round brick tower; 26.	Visible 282°-241°. Discontinued during winter, when Yalu River is closed.

The existence and operation of all navigational aids should be considered unreliable on the west coast of North Korea.

Section 11

China

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			CHINA				
18208 *P 4067*	Guanglu Dao.	39° 10.1′ N 122° 25.5′ E	**Fl.W.** period 6s fl. 0.5s, ec. 5.5s	292 **89**	11	White round concrete tower; 33.	
18210 *P 4068.1*	Jiaoliu Dao.	39° 16.6′ N 122° 42.8′ E	**Fl.R.** period 6s fl. 0.5s, ec. 5.5s	82 **25**	10	White square tower; 26.	
	RACON		**C(– • – •)**				(3cm).
18211 *F 4066.5*	Haiyang Dao.	39° 04.2′ N 123° 09.0′ E	**Fl.W.** period 5s	200 **61**	12	White round concrete tower; 43.	**Siren:** 1 bl. ev. 80s (bl. 40s, si. 40s).
	RACON		**K(– • –)**				(3cm).
18212 *P 4064*	**Yuan Dao.**	38° 40.4′ N 122° 09.9′ E	**Fl.W.** period 15s fl. 1s, ec. 14s	215 **66**	**20**	White round concrete tower; 66.	Reserve light Fl.W. 5s 10M.
	RACON		**B(– • • •)**				(3cm).
18216 *P 4062*	Yu Yan.	38° 34.3′ N 121° 38.5′ E	**Fl.W.** period 4s fl. 0.8s, ec. 3.2s	65 **20**	14	White round concrete tower; 52.	
	RACON		**Z(– – • •)**				(3cm).
18220 *P 4058*	**Dasanshan Dao.**	38° 51.9′ N 121° 49.5′ E	**Fl.W.** period 10s fl. 1s, ec. 9s	266 **81**	**23**	White round stone tower; 39.	Visible 248°-158°. Reserve light range 10M. **Siren:** 4 bl. ev. 30s. (bl. 5s, si. 2s, bl. 5s, si. 2s, bl. 2s, si. 2s, bl. 2s, si. 10s). **Radiobeacon.**
18222 *P 4060*	**Xian Jiao.**	38° 57.8′ N 121° 59.2′ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	82 **25**	**15**	White concrete column, red bands; 52.	
	RACON		**O(– – –)**				(3cm).
18224 *P 4066.25*	Pier, head.	39° 05.1′ N 122° 03.1′ E	**Iso.R.** period 4s	33 **10**	6	White column, red bands; 20.	
18225 *P 4065*	**Nandaquan.**	39° 01.1′ N 121° 54.9′ E	**Fl.(2)W.** period 10s	187 **57**	**20**	White square concrete tower; 72.	
18225.3 *P 4065.3*	Dayao Wan, N. entrance, N. head.	39° 00.7′ N 121° 54.6′ E	**Iso.G.** period 6s	66 **20**	12	White concrete column, black bands; 66.	
18225.5 *P 4065.4*	-S. head.	39° 00.5′ N 121° 54.5′ E	**Iso.R.** period 6s	66 **20**	10	White concrete column; 66.	
18226 *P 4066*	Dayao Wan, S. breakwater, head.	39° 00.1′ N 121° 54.0′ E	**F.R.**	85 **26**	12	Red round concrete pile, white stripes; 72.	Channel marked by buoys.
18226.2 *P 4065.5*	-N. breakwater.	39° 00.2′ N 121° 54.3′ E	**Fl.G.** period 5s	66 **20**	10	White round concrete tower; 66.	
18227 *P 4059.2*	Dalian Gang, Oil Pier.	38° 59.0′ N 121° 53.9′ E	**F.R.**	39 **12**	8		
18228 *P 4059*	**Shatuozi.**	38° 58.1′ N 121° 54.3′ E	**Fl.W.** period 6s fl. 1s, ec. 5s	120 **37**	**18**	White round concrete tower; 121.	
	RACON		**Y(– • – –)**				(3cm).
18228.5 *P 4059.03*	-Breakwater head.	38° 58.3′ N 121° 54.8′ E	**Fl.R.** period 3s	43 **13**	7	Yellow pile; 33.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			CHINA				
18229 *P 4059.3*	Daliangangxin Gang, Oil Terminal.	38° 58.6′ N 121° 54.3′ E	**F.G.**	52 **16**	3	White triangular framework structure; 56.	
18231 *P 4059.5*	-Operations Pier.	38° 58.3′ N 121° 53.8′ E	**F.R.**	33 **10**	8	White round concrete tower; 33.	
18231.1 *P 4059.55*	Zhongran Jetty.	38° 58.3′ N 121° 54.1′ E	**Iso.R.** period 4s	52 **16**	8	White column, red bands; 39.	
18232 *P 4059.12*	LNG pier, No 10.	38° 57.5′ N 121° 53.3′ E	**Iso.G.** period 8s	52 **16**	8	Green pole; 26.	
18232.1 *P 4059.13*	-No 1.	38° 57.3′ N 121° 53.0′ E	**Iso.R.** period 8s	52 **16**	8	Red pole; 26.	
18233 *P 4059.18*	Bulk Cargo Pier, head.	38° 56.8′ N 121° 52.3′ E	**F.R.**	49 **15**	8	White metal tower, red bands; 33.	
18233.3 *P 4058.3*	Yishengdahua, breakwater, head.	38° 56.9′ N 121° 50.7′ E	**F.W.**	52 **16**	6	White column; 33.	
18233.5 *P 4058.4*	Fujiadahua Chemical Industry Pier, head.	38° 56.5′ N 121° 51.3′ E	**Iso.G.** period 4s	52 **16**	7	White pillar, black bands; 33.	
18233.9 *P 4059.191*	Jiucaituozi, W. side.	38° 56.5′ N 121° 51.7′ E	**Iso.R.** period 4s	56 **17**	5	Red fiberglass column; 33.	
18233.91 *P 4059.19*	-E. side.	38° 56.6′ N 121° 51.9′ E	**Iso.G.** period 4s	56 **17**	5	Green fiberglass column; 33.	
18234 *P 4058.5*	Jiucaituozi.	38° 56.8′ N 121° 51.7′ E	**Fl.(2)W.** period 6s fl. 0.3s, ec. 1s fl. 0.3s, ec. 4.4s	59 **18**	7	White round concrete tower; 26.	
18234.02 *P 4058.36*	-Berth No 5.	38° 56.7′ N 121° 51.1′ E	**Iso.R.** period 4s	46 **14**	8	White column, red bands; 26.	
18234.05 *P 4058.2*	Dagushan Wan, Dayang Jetty.	38° 57.9′ N 121° 49.7′ E	**Iso.R.** period 4s	39 **12**	8	White pillar, red bands; 26.	
18234.1 *P 4053*	Beiliang Gang, Oil Pier, breakwater, head.	38° 58.7′ N 121° 47.8′ E	**Fl.(2)W.** period 10s	52 **16**	8	White fiberglass tower, black bands; 33.	
18235.2 *P 4053.2*	-Grain pier.	38° 58.7′ N 121° 48.3′ E	**F.R.**	30 **9**	7	White fiberglass tower, red bands; 20.	
18235.3 *P 4056*	-Breakwater, head.	38° 58.3′ N 121° 48.1′ E	**F.G.**	98 **30**	10	White fiberglass tower, red bands; 66.	
	DALIAN GANG:						
18236 *P 4010*	**-Huangbai Zui.**	38° 54.2′ N 121° 43.0′ E	**Al.W.R.** period 10s	312 **95**	W. **20** R. 10	White round concrete tower; 51.	Visible 121°-007°. Reserve light Fl.W. 6s 10M.
18238 *P 4012*	-Zhongyue Pier, head.	38° 54.9′ N 121° 42.2′ E	**F.G.**		3	White dolphin.	
18256 *P 4022*	-Dagang Qu, E. entrance, N. side.	38° 56.3′ N 121° 40.2′ E	**Iso.W.** period 12s	43 **13**	5	Round stone pile; 39.	
18260 *P 4020*	--S. side.	38° 56.1′ N 121° 40.1′ E	**Iso.R.** period 12s	36 **11**	6	Round stone tower; 39.	
18264 *P 4026*	--N. entrance, E. side.	38° 56.7′ N 121° 38.8′ E	**F.R.**	62 **19**	6	White round concrete pile; 62.	
18268 *P 4028*	---W. side.	38° 56.7′ N 121° 38.7′ E	**F.R.**	66 **20**	6	White square concrete pile; 62.	
18279 *P 4045*	-Fuel pier.	38° 58.1′ N 121° 39.1′ E	**F.R.**	46 **14**	6	White round metal dolphin; 36.	
18279.1 *P 4045.22*	-Ganjingzi Oil Wharf.	38° 58.0′ N 121° 39.7′ E	**Iso.W.** period 4s	52 **16**	8	White fiberglass tower, black bands; 33.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			CHINA				
18280 *P 4044*	-Ganjingzi Big Wharf.	38° 57.5′ N 121° 38.6′ E	**F.G.**	39 **12**	6	White square metal framework tower; 40.	
18282 *P 4043*	--E. jetty.	38° 57.5′ N 121° 38.0′ E	**F.W.**	42 **13**	5	White round metal pile.	
18283 *P 4045.23*	-Liaohaixun, breakwater, head.	39° 00.5′ N 121° 40.4′ E	**Iso.W.** period 4s	39 **12**	8	Black and white fiberglass column; 33.	
18284 *P 4045.3*	-Liushutun Qu, E. breakwater, S.	39° 00.1′ N 121° 41.9′ E	**Fl.G.** period 3s	56 **17**	10	White metal column; 39.	
18285 *P 4045.25*	-Zhongyuan Chuanwu, W. breakwater, N.	39° 00.1′ N 121° 41.7′ E	**Fl.R.** period 3s	56 **17**	10	White metal column, red bands; 39.	
18285.1 *P 4045.24*	---S.	39° 00.0′ N 121° 41.4′ E	**Fl.W.** period 5s	49 **15**	10	White metal column, black bands; 33.	
18286	-*Heshing Dao, No 11.*	38° 59.1′ N 121° 46.3′ E	**Fl.G.** period 4s			STARBOARD (A) G, pillar, topmark.	
	-RACON		**G(– – •)**				(3cm).
18287 *P 4047.3*	-Breakwater, head.	39° 00.9′ N 121° 45.1′ E	**F.R.**	23 **7**	6	White concrete column; 20.	
18312 *P 3986*	**Laotieshan Xijiao.**	38° 43.7′ N 121° 08.1′ E	**Fl.(2)W.** period 30s	328 **100**	**25**	White round metal tower; 46.	Visible 282°-178°. Reserve light Fl.W. 4s 10M. **Radiobeacon.**
	RACON		**M(– –)**				(3cm).
18316 *P 3984*	**Xiaolongshan Dao.**	38° 57.2′ N 120° 58.4′ E	**Fl.W.** period 5s	226 **69**	**15**	White round concrete tower; 28.	Visible 342°-227°.
18334 *P 3983*	**Changxing Dao.**	39° 31.5′ N 121° 13.7′ E	**Fl.W.** period 25s	653 **199**	**25**	White round concrete tower; 33.	Visible 354°-200°. Reserve light range 10M.
18334.05 *P 3982.8*	-Hengli pier.	39° 34.8′ N 121° 16.1′ E	**Iso.W.** period 6s	33 **10**	6	White pile, black bands; 23.	
18334.1 *P 3982.6*	-N. harbor, E. breakwater, head.	39° 35.1′ N 121° 15.4′ E	**F.R.**	69 **21**	6	White round concrete tower, red bands; 49.	
18334.2 *P 3982.5*	-Crude oil pier, E.	39° 35.8′ N 121° 16.7′ E	**Fl.R.** period 3s	46 **14**	6	White round concrete tower, black bands; 23.	
18334.3 *P 3982*	**Dagushan.**	39° 51.6′ N 121° 32.4′ E	**Fl.W.** period 20s	259 **79**	**20**	Red and white concrete tower; 64.	Reserve light Fl.(3)W. 20s 12M.
18334.6 *P 3981*	**Taiping Jiao.**	40° 01.6′ N 121° 49.6′ E	**Fl.W.** period 15s	115 **35**	**20**	White concrete tower; 42.	
18334.61 *P 3979.44*	Xianren Dao, N. breakwater.	40° 13.2′ N 121° 56.9′ E	**Oc.R.** period 6s lt. 4s, ec. 2s	46 **14**	5	Red and white concrete column; 40.	
18334.62 *P 3979.45*	-S. breakwater.	40° 12.8′ N 121° 56.9′ E	**Oc.G.** period 6s lt. 4s, ec. 2s	56 **17**	7	White concrete column, green bands; 46.	
	-RACON		**Y(– • – –)**				(3cm).
	BAYUQUAN GANG:						
18334.7 *P 3979*	-Approach channel Range, front.	40° 17.2′ N 122° 05.4′ E	**F.W.**	69 **21**	10	Orange and white pile, orange triangular daymark point up; 82.	S. limit marked by F.G. lights in line. N. limit marked by F.R. lights in line. Reserve light F.W. 8M. **AIS** (MMSI No 994131201).
18334.71 *P 3979.1*	--Rear, 1740 meters 097°24′ from front.	40° 17.1′ N 122° 06.6′ E	**F.W.**	157 **48**	10	Orange and white pile, triangular daymark point down; 147.	Reserve light F.W. 8M.
18334.75 *P 3979.15*	-N. breakwater.	40° 17.4′ N 122° 04.9′ E	**Q.R.**	30 **9**	4	White round concrete pillar; 38.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			CHINA				
18334.8 *P 3979.2*	-W. breakwater, N. head.	40° 17.2′ N 122° 04.8′ E	**Q.G.**	30 **9**	4	Green concrete pile; 39.	
18335 *P 3978*	**Taizi Shan.**	40° 17.8′ N 122° 06.5′ E	**Fl.W.** period 10s	430 **131**	**25**	White concrete tower; 69.	Reserve light range Fl.W. 10s 7M.
18336 *P 3970*	YINGKOU LIGHTSHIP RACON.	40° 31.1′ N 121° 59.0′ E	**Y(– • – –)**				(3cm).
	YING KOU:						
18338 *P 3970.5*	-Turning beacon.	40° 35.8′ N 122° 09.3′ E	**F.W.**	52 **16**	8	Black metal framework tower, black ball topmark; 62.	
18340 *P 3971*	-Bar Range, front.	40° 35.7′ N 122° 09.6′ E	**F.W.**	56 **17**	8	Black metal framework tower, black triangular daymark point up; 73.	
18344 *P 3971.1*	--Rear, 950 meters 061° from front.	40° 36.0′ N 122° 10.2′ E	**F.W.**	105 **32**	8	Black metal framework tower, black triangular daymark point down; 106.	
18348 *F 3971.9*	-Inner Channel Range, front, 950 meters 220°15′ from common rear.	40° 37.5′ N 122° 08.9′ E	**F.R.**	46 **14**	7	Black metal framework tower, black triangular daymark point up; 59.	Visible 027°-057°.
18352 *P 3972*	--Common rear.	40° 37.9′ N 122° 09.3′ E	**F.R.**	95 **29**	7	Black metal framework tower, black triangular daymark point down; 95.	Visible 035°-185°.
18353 *P 3972.1*	---No 4 Range, front, 353°20′ from common rear.	40° 38.2′ N 122° 09.2′ E	**F.R.**	62 **19**	7	Black metal framework tower, black triangular daymark point up; 66.	Visible 099°-189°.
18355 *P 3972.15*	-Paotai beacon.	40° 39.3′ N 122° 09.8′ E	**Q.G.**		4		
18358 *P 3972.3*	Xishiba beacon.	40° 39.3′ N 122° 08.5′ E	**Fl.R.** period 4s			Red beacon, square daymark.	
18373 *P 3972.5*	-W. channel Range, front.	40° 40.9′ N 122° 08.4′ E	**F.W.**	52 **16**	8	Black metal framework tower, black triangular daymark point up; 59.	
18374 *P 3972.51*	--Rear, 650 meters 014°45′ from front.	40° 41.2′ N 122° 08.5′ E	**F.W.**	85 **26**	8	Black metal framework structure, black triangular daymark point down; 92.	
18375 *P 3975*	-Zaomu Gou.	40° 41.9′ N 122° 08.5′ E	**Fl.W.** period 4s fl. 0.5s, ec. 3.5s	36 **11**	4	Black metal framework tower; 33.	
18376 *P 3976*	-W. Channel Range No 2, front.	40° 42.2′ N 122° 08.7′ E	**F.R.**	43 **13**	4	Black metal framework tower, black triangular daymark point up; 39.	
18377 *P 3976.1*	--Rear, 160 meters 353°20′ from front.	40° 42.3′ N 122° 08.7′ E	**F.R.**	56 **17**	4	Black metal framework tower, black triangular daymark point down; 52.	
18378 *P 3977*	-Yongyuau Jiao.	40° 42.7′ N 122° 09.9′ E	**Fl.W.** period 6s fl. 0.5s, ec. 5.5s	36 **11**	4	Black steel framework tower; 33.	
18380 *P 3965.5*	**Huludao Jiao.**	40° 42.9′ N 121° 01.3′ E	**Fl.(2)W.** period 12s fl. 1.5s, ec. 3s fl. 1.5s, ec. 6s	423 **129**	**18**	White round concrete tower; 33.	Visible 180°-073°.
18382 *P 3966*	Jinzhou Gang Range, front.	40° 48.7′ N 121° 03.9′ E	**F.W.**	138 **42**	12	White pile, round daymark.	Channel marked by lighted port and starboard buoys.
18382.1 *P 3966.1*	-Rear, 1820 meters 005°41′ from front.	40° 49.7′ N 121° 04.0′ E	**Fl.W.** period 4s	240 **73**	12	White pile, round daymark.	
18383 *P 3966.5*	Basin No 5 Range, front.	40° 47.8′ N 121° 04.6′ E	**F.R.**	79 **24**	6	White metal pipe.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			CHINA				
18383.1 *P 3966.51*	-Rear, 110 meters 060° from front.	40° 47.9′ N 121° 04.7′ E	**F.R.**	92 **28**	6	White metal pipe.	
18384 *P 3966.2*	-Breakwater, head.	40° 47.8′ N 121° 04.0′ E	**Fl.W.** period 4s	49 **15**	6	White metal framework tower.	
18387 *P 3964*	**Tuan-shan Chiao.**	40° 12.8′ N 120° 27.3′ E	**Fl.(2+1)W.** period 20s	135 **41**	**18**	Red three-sided concrete tower, white stripes; 128.	Reserve light range 10M. **AIS** (MMSI No 004131203).
	RACON		**Z(– – • •)**				(3cm).
18388 *P 3960.4*	Longwangmiao.	40° 04.4′ N 120° 00.7′ E	**Fl.R.** period 4s	75 **23**	6	Black tower; 16.	Fishing light.
18390 *P 3960*	**Huanhaisidi Zui.**	40° 00.1′ N 119° 54.9′ E	**Fl.W.** period 10s	82 **25**	**15**	Three white round concrete tower; 40.	Reserve light Q.(3)W. 10s 10M.
	RACON		**K(– • –)**				(3cm).
18408 *P 3937*	**Nanshan Tou.**	39° 54.7′ N 119° 37.0′ E	**Fl.W.** period 15s	194 **59**	**20**	White round concrete tower; 161.	Reserve light range 10M. **Radiobeacon.**
18412 *P 3937.4*	-Qinhungdao Gang Range, front.	39° 55.0′ N 119° 37.3′ E	**F.W.**	102 **31**	6	White concrete structure, chevron topmark point down; 98.	E. and W. channel limits marked by F.G. and F.R., 2 F.G. and 2 F.R. ranges, respectively. 2 F.W. mark each side of dredged channel.
18416 *P 3937.41*	--Rear, 2180 meters 340° from front.	39° 56.1′ N 119° 36.8′ E	**Iso.W.** period 4s	154 **47**	6	White concrete structure, chevron topmark point down; 154.	
18420 *P 3937.6*	-Zhongxin Biao.	39° 53.7′ N 119° 37.9′ E	**Iso.W.** period 2s	52 **16**	6	Concrete tower; 49.	
	-RACON		**M(– –)**				(3cm).
18424 *P 3949.5*	-Oil pier, outer head.	39° 55.3′ N 119° 39.2′ E	**F.R.**	49 **15**	3	White concrete tower; 39.	
18428 *P 3950*	-Fuel oil pier.	39° 55.6′ N 119° 39.1′ E	**Fl.R.** period 4s	39 **12**	3	White concrete tower; 39.	
18432 *P 3950.5*	--Outer head.	39° 55.0′ N 119° 39.3′ E	**Fl.W.** period 3s fl. 1s, ec. 2s	36 **11**	3	White concrete tower; 39.	
18440 *P 3943*	-Range, front.	39° 54.5′ N 119° 36.1′ E	**F.W.**	72 **22**	3	White metal framework tower, white diamond daymark; 69.	Lights in line mark either side of fairway; front F.G., rear F.R.
18444 *P 3943.1*	--Rear, 1056 meters 352°32′ from front.	39° 55.0′ N 119° 36.0′ E	**F.W.**	118 **36**	6	White metal framework tower, white diamond daymark; 115.	
18448 *P 3948*	-E. Channel Range, common front.	39° 56.1′ N 119° 39.4′ E	**F.W.**	105 **32**	12	White concrete tower, red bands; 95.	F.W. lights in line mark either side of fairway. Channel marked by Fl.R. and Fl.G. articulated beacons.
	-RAMARK		**(– – – – –)**				
18448.1 *P 3948.11*	--Middle, 926 meters 330° from common front.	39° 56.6′ N 119° 39.1′ E	**L.Fl.W.** period 6s fl. 2s, ec. 4s	141 **43**	12	White metal structure, white diamond daymark, red stripes.	
18448.2 *P 3948.15*	--Rear, 1946 meters 330° from common front.	39° 57.1′ N 119° 38.7′ E	**F.W.**	190 **58**	12	White concrete tower, red bands.	
18452 *P 3948.1*	--Rear, 1200 meters 010°53′ from front.	39° 56.8′ N 119° 39.6′ E	**Oc.W.** period 5s lt. 3s, ec. 2s	144 **44**	6	White concrete tower, red bands; 148.	
18452.6 *P 3953.81*	--Middle, 400 meters 035° from front.	39° 56.0′ N 119° 40.5′ E	**F.W.**	91 **28**	6	White metal pillar, diamond daymark; 79.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			CHINA				
18452.7 *P 3953.82*	--Rear, 1235 meters 035° from front.	39° 56.5′ N 119° 41.0′ E	**F.W.**	161 **49**	6	White metal framework beacon, diamond daymark; 157.	
	--RACON		**O(– – –)**				
18452.8 *P 3953.9*	-Meisanqi terminal, head.	39° 55.4′ N 119° 40.1′ E	**F.G.**	52 **16**	3	Metal mast; 58.	Harbor limits marked by lit articulated beacons.
18453 *P 3954.65*	-Chenxiang Hangdao.	39° 55.7′ N 119° 39.9′ E	**Fl.(2)W.** period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	52 **16**	4	White round concrete pile; 36.	
18453.2 *P 3954.9*	-S. pier, head.	39° 56.0′ N 119° 40.1′ E	**Fl.(2)W.** period 4s fl. 0.5s, ec. 1s fl. 0.5s, ec. 2s	39 **12**	3	Red fiberglass tower, white stripes; 33.	
18453.4 *P 3954.91*	-E. pier, head.	39° 56.1′ N 119° 40.1′ E	**Fl.R.** period 2s fl. 0.5s, ec. 1.5s	16 **5**	2	Green round tower, white stripes; 10.	
18454 *P 3942*	-Detached breakwater, E. end.	39° 54.0′ N 119° 35.8′ E	**Fl.R.** period 2s	39 **12**	3	Red and white fiberglass pile; 33.	
18454.5 *P 3942.1*	-Detached breakwater, W. end.	39° 53.9′ N 119° 34.5′ E	**Fl.W.** period 4s	39 **12**	3	Green and white fiberglass pile; 30.	
18456 *P 3943.8*	-S. breakwater, head.	39° 54.2′ N 119° 36.3′ E	**Oc.W.** period 2s	56 **17**	3	Green and white fiberglass pile; 36.	
18460 *P 3944.5*	-Tideguage.	39° 54.5′ N 119° 36.6′ E	**Fl.R.** period 3s fl. 0.5s, ec. 2.5s	9 **3**	1		Tide gauge.
18464 *P 3943.9*	-Pier, head.	39° 54.4′ N 119° 36.4′ E	**F.G.**	66 **20**	3	Square concrete post; 56.	
18466 *P 3945*	-Pier A.	39° 54.3′ N 119° 35.7′ E	**F.G.**	39 **12**	3	White concrete tower; 40.	
18468 *P 3941.14*	-W. Channel Range, front.	39° 54.4′ N 119° 35.3′ E	**F.W.**	112 **34**	6	Red and white concrete tower; 102.	
18472 *P 3941.15*	--Rear, 1250 meters 310° from front.	39° 54.9′ N 119° 34.7′ E	**F.W.**	164 **50**	6	Red and white concrete tower; 148.	Limits of channel marked by F.W. lights in line.
18476 *P 3936*	Jinshan Zui.	39° 48.7′ N 119° 31.6′ E	**Fl.(2)W.** period 6s	171 **52**	8	White metal framework structure; 92.	
	RACON		**Z(– – • •)**				(3cm).
18494 *P 3934*	**Jingtang Gang.**	39° 12.8′ N 119° 00.8′ E	**Fl.(2)W.** period 10s fl. 1s, ec. 0.5s fl. 1s, ec. 7.5s	131 **40**	**18**	White round concrete tower, red bands; 115.	
18496 *P 3932*	Caofeidian.	38° 55.1′ N 118° 30.4′ E	**Fl. W.** period 15s fl. 0.5s, ec. 14.5s	69 **21**	14	Black metal framework structure, square daymark; 75.	**Radar reflector.**
	RACON		**C(– • – •)**				(3cm).
18497 *F 3932.35*	-W.	38° 55.0′ N 118° 29.3′ E	**Iso.R.** period 4s	52 **16**	7	White round pillar, red bands; 33.	
	PO HAI:						
18500 *P 3908*	**-Dagu.**	38° 56.4′ N 117° 58.8′ E	**Fl.W.** period 10s fl. 1s, ec. 9s	118 **36**	**17**	White round concrete tower, red and white checkered bands; 126.	Reserve light Fl.W. 10s 10M. Channel marked by lighted buoys and beacons.
	-RACON		**K(– • –)**		**15**		Azimuth coverage 050°-130°. (3cm).
18500.2 *P 3907.82*	-N. breakwater, No 1.	38° 55.0′ N 117° 54.5′ E	**Mo.(C)Y.** period 15s	39 **12**	5	Yellow pile; 33.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			CHINA				
18500.3 *P 3907.832*	-LNG Pier, E.	38° 55.6′ N 117° 52.8′ E	**Fl.G.** period 3s	62 **19**	5	White column, red bands; 49.	**AIS** (MMSI No 994131412).
18500.4 *P 3907.833*	--W.	38° 55.8′ N 117° 52.2′ E	**Fl.R.** period 3s	62 **19**	5	White column, red bands; 49.	
18500.5 *P 3907.834*	-W. LNG Working Vessel Pier.	38° 55.8′ N 117° 52.0′ E	**Fl.W.** period 3s	39 **12**	5	Red column; 33.	
18500.6 *P 3909.1*	-N. breakwater, head.	38° 57.5′ N 117° 54.1′ E	**Iso.G.** period 4s	69 **21**	6	White round concrete column, green bands; 52.	
	-RACON		**Z(– – • •)**				(3cm).
18500.7 *P 3909.2*	-S. breakwater, head.	38° 57.0′ N 117° 53.4′ E	**Iso.R.** period 4s	69 **21**	6	White round concrete column, red bands; 52.	
18501 *P 3909.5*	-Oil Pier, E.	38° 56.9′ N 117° 52.3′ E	**Iso.R.** period 4s	56 **17**	7	White fiberglass tower, red bands; 49.	**AIS** (MMSI No 994131404).
18502 *P 3909.6*	--W.	38° 56.9′ N 117° 52.0′ E	**Iso.G.** period 4s	56 **17**	7	White fiberglass tower, green bands; 49.	
18503 *P 3909.71*	-Ore Pier, E.	38° 57.1′ N 117° 51.0′ E	**Fl.R.** period 3s	52 **16**	5	Yellow round column; 39.	
18503.5 *P 3909.72*	--W.	38° 57.1′ N 117° 50.8′ E	**Fl.G.** period 3s	52 **16**	5	White column, blue bands; 39.	
18504 *P 3910*	-Xingang, front, center of channel.	38° 58.8′ N 117° 44.1′ E	**Oc.W.** period 5s lt. 4s, ec. 1s	92 **28**		Black metal framework tower, black diamond daymark; 92.	Marks center of two-way channel.
18506 *P 3911.8*	-Cicum Ro-Ro pier.	39° 01.2′ N 117° 46.2′ E	**Iso.R.** period 4s	39 **12**	7	Red and white fiberglass column.	
18508 *P 3910.1*	--Rear, 1,700 meters 281°36′ from front.	38° 58.9′ N 117° 43.0′ E	**Iso.W.** period 4s	171 **52**		Black metal framework tower, black diamond daymark; 171.	
	--RACON		**M(– –)**				(3cm).
18512 *P 3909.83*	-N. channel Range, front.	38° 58.8′ N 117° 44.1′ E	**F.W.**	79 **24**		Black metal framework tower, black triangular daymark point up; 82..	Marks middle of north channel. North limit of channel marked by front and rear beacons in line 281°36′ each F.R. with square daymark.
18516 *P 3909.831*	--Rear, 1,700 meters 281°36′ from front.	38° 59.0′ N 117° 43.0′ E	**F.W.**	154 **47**		Black metal framework tower, black triangular daymark point up; 154.	
18520 *P 3910.2*	-S. channel Range, front.	38° 58.8′ N 117° 44.1′ E	**F.W.**	82 **25**		Black metal framework tower, black triangular daymark point down; 75.	Marks middle of south channel. South limit of channel marked by front and rear beacons in line 281°36′ each F.R. with black square daymark.
18524 *P 3910.21*	--Rear, 1,700 meters 281°36′ from front.	38° 58.9′ N 117° 43.0′ E	**F.W.**	148 **45**		Black metal framework tower, black triangular daymark point down; 148.	
18524.5 *P 3909.815*	-Hangzheng, Service Pier.	38° 58.6′ N 117° 44.8′ E	**Iso.R.** period 4s	36 **11**	5	Round fiberglass pile, red and white bands; 26.	
18526 *P 3909.81*	-HSA Pier.	38° 58.9′ N 117° 44.0′ E	**Fl.R.** period 3s fl. 0.3s, ec. 2.7s	36 **11**	5	Round fiberglass tower, red and white bands; 27.	
18527 *P 3911.6*	-E. breakwater, pier, S.	38° 58.4′ N 117° 47.3′ E	**Iso.W.** period 4s	39 **12**	7	White fiberglass tower, black bands; 33.	
18527.1 *P 3911.62*	--N.	38° 58.6′ N 117° 47.4′ E	**Iso.R.** period 4s	39 **12**	7	White fiberglass tower, red bands; 33.	
18527.15 *P 3911.33*	-D5.	38° 58.4′ N 117° 48.3′ E	**Fl.G.** period 4s			Starboard (A) G, beacon, topmark.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			CHINA				
18527.16 *P 3911.322*	-N45.	38° 58.4′ N 117° 48.6′ E	**V.Q.(6)+L.Fl.W.** period 10s			S. CARDINAL YB, tower, topmark.	
18527.17 *P 3911.3*	-International Cruise Terminal.	38° 58.4′ N 117° 49.4′ E	**Iso.G.** period 4s	46 **14**	7	White column, black bands; 39.	
18527.2 *P 3911.5*	-Bomaike Wharf, N.	38° 56.5′ N 117° 46.2′ E	**Iso.G.** period 4s	46 **14**	4	White column, green bands; 39.	
18527.21 *P 3911.591*	Tianjin Gang, Oil Supply Pier, No 2, E.	38° 57.6′ N 117° 45.1′ E	**Iso.G.** period 2s	49 **15**	7	White pile, green bands; 39.	
18527.22 *P 3911.592*	---W.	38° 57.6′ N 117° 45.0′ E	**Iso.R.** period 2s	49 **15**	7	White pile, red bands; 39.	
18527.3 *P 3911.56*	Industrial zone pier.	38° 57.7′ N 117° 43.5′ E	**Iso.G.** period 4s	49 **15**	7	White column, green bands; 39.	
18527.35 *P 3911.55*	Chemical Pier.	38° 57.1′ N 117° 44.7′ E	**Iso.R.** period 4s	39 **12**	7	Red and white round fiberglass tower; 33.	
18527.4 *P 3911.54*	Lingang Fubao Pier.	38° 56.9′ N 117° 45.4′ E	**Fl.R.** period 3s	46 **14**	7	Red pile; 39.	
18527.45 *P 3911.52*	Lingang Berth, No 11.	38° 56.8′ N 117° 45.7′ E	**Iso.R.** period 4s	59 **18**	7	Red column, green bands; 49.	**AIS** (MMSI No 994131407).
18527.46 *P 3911.4*	Lingang Jiayue, Grain and Oil Pier, E.	38° 56.1′ N 117° 48.2′ E	**Iso.R.** period 4s	59 **18**	7	White pillar, red bands; 49.	**AIS** (MMSI No 994131405).
18527.5 *P 3906.4*	Dongying Gang.	38° 08.3′ N 119° 02.7′ E	**Fl.G.** period 3s fl. 0.5s, ec. 2.5s	59 **18**	7	White metal tower, green bands; 39.	
18528 *P 9690.4*	Laizhou Wan.	38° 08.4′ N 119° 34.7′ E	**Mo.(U)W.** period 15s		10	Platform.	Mo.(U) 15s 15M Siren marks wellhead 2.5 miles NNE. Fl.(2) 5s mark wellheads 1.4 miles and 5.8 miles S. **Siren.**
18532 *P 3897*	**Qimu Jiao.**	37° 41.1′ N 120° 13.6′ E	**Fl.W.** period 5s fl. 1s, ec. 4s	233 **71**	**20**	White round concrete tower; 59.	
	RACON		**C(– • – •)**				(3cm).
18532.5 *P 3898.5*	Xinhangdao Range, front.	37° 37.4′ N 120° 15.6′ E	**F.R.**	92 **28**	8	Black metal framework tower, black diamond daymark; 79.	
18532.51 *P 3898.51*	-Rear, 1000 meters 143°59′ from front.	37° 37.0′ N 120° 16.0′ E	**F.R.**	144 **44**	8	Black metal framework structure, black diamond daymark; 131.	
18533 *P 3898*	Longkou Gang Range, front.	37° 38.6′ N 120° 19.2′ E	**F.G.**	105 **32**	8	White metal framework tower, red bands, white diamond daymark, red stripe; 105.	
18533.5 *P 3898.1*	-Rear, 400 meters 086°30′ from front.	37° 38.7′ N 120° 19.8′ E	**F.G.**	151 **46**	8	White column, red and white diamond daymark; 141.	
18534 *P 3899*	-Turning lights Range, front.	37° 39.4′ N 120° 19.1′ E	**F.R.**	52 **16**	3	Black metal framework tower, black diamond daymark.	
18534.5 *P 3899.1*	-Rear, 240 meters 037°28′ from front.	37° 39.5′ N 120° 19.2′ E	**F.R.**	69 **21**	3	Black metal framework tower, black diamond daymark.	
18535.1 *P 3905.365*	Laizhou Wan.	37° 25.4′ N 119° 56.4′ E	**Q.G.**	43 **13**	8	Black and white square metal framework tower; 26.	
18535.5 *P 3896.2*	Luanjiakou Gang, pier, N. head.	37° 47.6′ N 120° 38.1′ E	**Q.G.**	26 **8**	6	Black and white metal column; 20.	
18535.7 *P 3896.15*	--S. head.	37° 47.4′ N 120° 38.1′ E	**Iso.G.** period 4s	26 **8**	7	White metal column; 20.	
18536 *P 3894*	**Beichangshan Dao.**	37° 59.2′ N 120° 42.7′ E	**Fl.W.** period 10s	335 **102**	**22** 10	White round tower; 40.	Visible 122°-253°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			CHINA				
18537 *P 3895.35*	Lujiabazi.	37° 58.8′ N 120° 39.2′ E	**Fl.W.** period 3s fl. 0.5s, ec. 2.5s	82 **25**	8	White round stone tower; 16.	
18538 *P 3895.3*	Miao Zui.	37° 58.0′ N 120° 38.4′ E	**Fl.W.** period 6s fl. 0.5s, ec. 5.5s	157 **48**	8	White round stone tower; 16.	
18539 *P 3895.28*	Niutuozi.	37° 55.9′ N 120° 40.1′ E	**Fl.(2)W.** period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	105 **32**	8	White round stone tower; 16.	
18556 *P 3892*	**Houji Dao.**	38° 03.5′ N 120° 38.5′ E	**Fl.W.** period 12s	341 **104**	**15**	Black round tower; 46.	Reserve light Fl.W. 12s.
	RACON		**Z(– – • •)**				(3cm).
18558 *P 3895.85*	**Penglai Gang.**	37° 49.8′ N 120° 44.6′ E	**Fl.W.** period 5s fl. 1s, ec. 4s	295 **90**	**20**	White round tower; 66.	Reserve light Fl.W. 5s.
18559.1 *P 3895.22*	**Quezuijianzi.**	37° 54.9′ N 120° 43.3′ E	**Fl.W.** period 10s fl. 1s, ec. 9s	246 **75**	**15**	White concrete column; 46.	
	RACON		**Q(– – • –)**				(3cm).
18560 *P 3893.5*	**Dazhushan.**	38° 01.5′ N 120° 56.4′ E	**Fl.W.** period 8s	669 **204**	**15**	White round tower, black bands; 33.	Reserve light Fl.W. 8s.
	RACON		**B(– • • •)**				(3cm).
18564 *P 3893*	**Xiaozhushan Dao.**	38° 01.3′ N 120° 52.2′ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	340 **104**	**18**	White round tower; 16.	Visible 258°-271°.
18568 *P 3892.5*	**Beihuangcheng Dao.**	38° 23.7′ N 120° 54.6′ E	**Fl.(2)W.** period 15s	561 **171**	**25**	White round masonry tower; 33.	
	RACON		**M(– –)**				(3cm).
	YEN-TAI:						
18569 *P 3891.3*	-W. harbor, breakwater, elbow.	37° 43.4′ N 121° 03.8′ E	**F.G.**	33 **10**	6	White metal column, black bands; 13.	
18569.1 *P 3891.2*	---Head.	37° 43.4′ N 121° 04.9′ E	**Iso.G.** period 4s	33 **10**	6	White metal column; 20.	
18572 *P 3882*	**-Yantai Shan.**	37° 32.9′ N 121° 23.8′ E	**Fl.W.** period 9s	263 **80**	**20**	White octagonal concrete tower; 161.	Visible 210°-284°. Partially obscured by shore.
18576 *P 3884*	-Breakwater, N. head.	37° 33.5′ N 121° 23.8′ E	**Fl.R.** period 4s fl. 0.5s, ec. 3.5s	49 **15**	5	Red square metal framework tower; 39.	
18580 *P 3886*	-Breakwater, S. head.	37° 33.1′ N 121° 24.0′ E	**Q.G.**	49 **15**	8	Green square metal framework tower; 39.	
18584 *P 3888*	-Mole, head.	37° 33.4′ N 121° 23.7′ E	**Fl.G.** period 4s fl. 0.5s, ec. 3.5s	33 **10**	8	Green square metal framework tower; 23.	
18586 *P 3887*	-Inner Harbor Range, front.	37° 33.1′ N 121° 23.3′ E	**F.R.**	102 **31**	3	Red square framework structure, white bands, triangular daymark point up; 97.	
18586.1 *P 3887.1*	--Rear, 280 meters 280° from front.	37° 33.2′ N 121° 23.1′ E	**F.R.**	141 **43**	3	Red square framework structure, white bands, triangular daymark point down; 128.	
18587 *P 3882.5*	-W. Port Area Range, front	37° 33.7′ N 121° 22.1′ E	**F.R.**	125 **38**	**15**	Round tower, red and white diamond daymark; 115.	N. and S. channel limits marked by F.G. range lights.
	RACON		**K(– • –)**				(3cm).

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			CHINA				
18587.1 *P 3882.51*	--Rear, 830 meters 248° from front.	37° 33.6′ N 121° 21.6′ E	**F.R.**	161 **49**	**15**	Round tower, red and white diamond daymark; 148.	
18587.3 *P 3886.55*	-No 3 Basin, S. Breakwater.	37° 34.3′ N 121° 23.5′ E	**Q.G.**	36 **11**	5	Black square framework tower; 26.	
18587.6 *P 3881.4*	-Vehicle Ferry Pier.	37° 35.4′ N 121° 22.8′ E	**F.R.**	30 **9**	4	Black metal framework structure; 13.	
18587.7 *P 3881.5*	-Operations Pier, head.	37° 35.6′ N 121° 22.6′ E	**F.G.**	42 **13**	8	White steel column; 26.	
18587.8 *P 3881.6*	-Salvage Pier, head.	37° 35.6′ N 121° 23.5′ E	**Q.W.**	33 **10**	8	White square metal framework tower, black bands; 26.	
18588 *P 3881*	-Xiaoshanzi.	37° 35.6′ N 121° 26.0′ E	**Fl.W.** period 6s fl. 1s, ec. 5s	69 **21**	6	White square brick tower; 26.	
18592 *P 3880.5*	-Dajiaoshi (Stickup Rock).	37° 34.8′ N 121° 28.2′ E	**Fl.(2)R.** period 6s fl. 0.4s, ec. 1s fl. 0.4s, ec. 4.2s	52 **16**	3	Red metal pole; 13.	Visible 031°30′-273°30′. Fishing light.
18596 *P 3878*	**Kongtong Dao.**	37° 33.7′ N 121° 30.9′ E	**Fl.W.** period 15s	256 **78**	**20**	White round masonry tower; 62.	
	RACON		**G(– – •)**				(3cm).
18600 *P 3876*	**Jingzi Tou.**	37° 33.7′ N 122° 07.2′ E	**Fl.W.** period 15s	302 **92**	**25**	White round masonry tower; 26.	
18604 *P 3880*	Pei Shih.	37° 36.6′ N 121° 35.4′ E	**Fl.(2)W.** period 6s fl. 0.4s, ec. 1s fl. 0.4s, ec. 4.2s	92 **28**	8	White square masonry tower; 12.	Fishing light.
18608 *P 3868*	**Zhaobei Zui.**	37° 27.7′ N 122° 14.6′ E	**Fl.W.** period 8s fl. 1s, ec. 7s	95 **29**	**15**	White round metal tower and dwelling; 29.	Reserve light Fl.W. 8s.
18612 *P 3870*	-Dahong, E. entrance, N. side.	37° 29.7′ N 122° 12.9′ E	**Fl.W.** period 5s	33 **10**	8	Red and white masonry column; 23.	Occasional.
18616 *P 3869*	Ri Dao.	37° 28.7′ N 122° 12.1′ E	**Fl.(2)W.** period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	62 **19**	7	White round masonry tower; 16.	
18617 *P 3868.5*	Weihai Gang, breakwater head.	37° 27.4′ N 122° 12.0′ E	**F.R.**	26 **8**	4	Red metal framework beacon; 16.	
18618 *P 3868.7*	Yang-Chia Wan.	37° 26.1′ N 122° 10.8′ E	**Fl.W.** period 4s	33 **10**	6	White column, black bands; 20.	
18620 *P 3874*	Yashi Dao.	37° 31.7′ N 122° 10.5′ E	**Fl.G.** period 5s	52 **16**	8	White pole; 20.	
18624 *P 3871*	**-Qigan Zui.**	37° 29.5′ N 122° 08.4′ E	**Fl.W.** period 12s	75 **23**	**16**	White round masonry tower; 36.	Reserve light Fl.W. 3s.
18624.1 *P 3871.35*	Weihai Gang, No 2.	37° 29.3′ N 122° 08.8′ E	**Fl.G.** period 6s	33 **10**	6	White metal pile; 26.	
18624.2 *P 3871.51*	-No 3.	37° 29.7′ N 122° 08.4′ E	**Iso.G.** period 6s	33 **10**	6	White metal pile; 26.	
18624.25 *P 3871.511*	-No 4.	37° 29.7′ N 122° 07.8′ E	**Iso.R.** period 6s	33 **10**	6	White metal pile; 26.	
18624.3 *P 3871.4*	-Tourist pier.	37° 29.6′ N 122° 08.3′ E	**Fl.R.** period 4s	33 **10**	6	White metal pile; 26.	
18626 *P 3871.7*	Weihai Gang Range, front.	37° 30.4′ N 122° 07.2′ E	**F.R.**	102 **31**	4	Red framework tower, white bands, black triangular topmark point up; 33.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			CHINA				
18626.1 *P 3871.71*	-Rear, 190 meters 270° from front.	37° 30.4′ N 122° 07.1′ E	**F.R.**	135 **41**	4	Red framework tower, white bands, black triangular topmark point down; 122.	
18628 *P 3871.63*	Weihai pier, N side.	37° 30.4′ N 122° 07.5′ E	**Q.R.**	75 **23**	4	White square metal framework tower; 62.	
18628.5 *P 3871.6*	-S. side.	37° 30.3′ N 122° 07.5′ E	**F.R.**	75 **23**	4	Black and white metal framework tower; 62.	
18629 *P 3871.3*	Weihai Gang, head.	37° 28.9′ N 122° 08.4′ E	**F.R.**	16 **5**	3	White metal framework tower.	
18634 *P 3867*	**Jiming Dao.**	37° 27.0′ N 122° 29.0′ E	**Fl.W.** period 10s fl. 1s, ec. 9s	252 **77**	**15**	White round stone tower, red bands; 26.	
18636 *P 3866*	**Hailu Dao.**	37° 26.8′ N 122° 40.0′ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	233 **71**	**15**	White round masonry tower; 23.	
	RACON		**X(– • • –)**		**20**		(3cm).
18640 *P 3864*	**Chengshan Jiao.**	37° 23.7′ N 122° 42.1′ E	**L.Fl.(2)W.** period 20s fl. 3s, ec. 2.5s fl. 3s, ec. 11.5s	198 **60**	**25**	White stone column; 53.	Visible 117°-044°. Partially obscured 117°-158°. Reserve light Fl.(2)W. 12s 12M. **Radiobeacon.**
18644 *P 3863*	**Waizhe Dao.**	37° 15.5′ N 122° 35.2′ E	**Fl.W.** period 8s	161 **49**	**16**	White round stone tower; 46.	
18648 *P 3862*	**Haimaozi Tau.**	37° 09.6′ N 122° 34.2′ E	**Fl.W.** period 12s	247 **75**	**25**	White round masonry tower; 46.	
	RACON		**Y(– • – –)**				(3cm).
18652 *P 3860*	**Moye Dao.**	36° 53.8′ N 122° 30.9′ E	**Fl.W.** period 15s	93 **28**	**15**	White round tower, red bands, dwellings; 70.	**Siren:** 2 bl. ev. 100s (bl. 4s, si. 5s, bl. 4s, si. 87s). **Radiobeacon.**
18656 *P 3858*	**Sushan Dao.**	36° 45.1′ N 122° 15.5′ E	**Fl.W.** period 25s	379 **116**	**20**	White round masonry tower; 33.	Visible 312°-308°. Reserve light Fl.W. 10s.
18660 *P 3856*	**Qianli Yan.**	36° 16.1′ N 121° 23.2′ E	**Fl.W.** period 15s	276 **84**	**24**	White round masonry tower, red bands; 49.	Visible 332°-324°.
18661 *P 3856.3*	Laolongtou.	36° 41.2′ N 121° 14.3′ E	**Fl.W.** period 6s fl. 0.4s, ec. 5.6s	52 **16**	10	Round stone tower.	**AIS.** Fishing light.
18661.2 *P 3856.29*	Fengcheng Gang, pier.	36° 40.7′ N 121° 14.1′ E	**Fl.W.** period 6s fl. 0.5s, ec. 5.5s	46 **14**	8	Red concrete structure; 39.	
18664 *P 3850.6*	**Laoshan Tou.**	36° 08.1′ N 120° 42.7′ E	**Fl.W.** period 6s	381 **116**	**15**	White round masonry tower; 40.	Visible 158°-072°.
	RACON		**O(– – –)**				(3cm).
18666 *P 3850.55*	Tuolou Dao.	36° 04.7′ N 120° 35.0′ E	**L.Fl.W.** period 10s fl. 2s, ec. 8s	69 **21**	3	White round stone tower, hexagonal stone base; 16.	
	CHIAO-CHOU WAN:						
18668 *P 3814*	**-Chaolian Dao.**	35° 53.7′ N 120° 52.6′ E	**Fl.W.** period 10s fl. 1s, ec. 9s	262 **80**	**24**	White octagonal masonry tower; 42.	**Siren:** 3 bl. ev. 90s (bl. 2s, si. 3s, bl. 2s, si. 3s, bl. 4s, si. 76s).
	-RACON		**G(– – •)**				(3cm).
18670 *P 3816*	**Xiaogong Dao.**	35° 59.8′ N 120° 35.1′ E	**Fl.(2)W.** period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	164 **50**	**15**	Concrete column.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			CHINA				
18672 *P 3818*	**Dagong Dao.**	35° 57.6′ N 120° 29.6′ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	430 **131**	**15**	White round fiberglass tower; 33.	
	RACON		**T(–)**				
18676 *P 3820*	Zhucha Dao.	35° 56.4′ N 120° 18.6′ E	**Fl.(3)W.** period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	157 **48**	9	White round concrete column; 39.	Visible 276°-264°.
18678 *P 3821*	Lian Dao.	35° 56.5′ N 120° 19.6′ E	**Fl.W.** period 6s fl. 0.5s, ec. 5.5s	52 **16**	8	White fiberglass pile, red bands; 26.	
18679 *P 3812*	Liansan Dao.	35° 54.1′ N 120° 10.8′ E	**Fl.(2)W.** period 10s fl. 0.5s, ec. 1s fl. 0.5s, ec. 8s	318 **97**	12	Square stone tower; 20.	
18679.2 *P 3811*	Laoling Shi.	35° 53.1′ N 120° 09.9′ E	**Fl.(2)W.** period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	26 **8**	6	White round concrete tower; 26.	
	RACON		**B(– • • •)**				(3cm).
18680 *P 3810*	Lingshan Dao.	35° 44.7′ N 120° 09.5′ E	**Fl.W.** period 6s	148 **45**	10	White column, red bands; 39.	Visible 310°-147°.
18684 *P 3822*	**Daqiao Dao.**	35° 59.5′ N 120° 19.7′ E	**Fl.(2)W.** period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	59 **18**	**15**	Red metal framework tower, white concrete base; 52.	
	RACON		**B(– • • •)**				(3cm).
18686 *P 3823*	*HUANDAO, OUTER CHANNEL LIGHTSHIP.*	36° 00.1′ N 120° 19.9′ E	**Fl.(2)W.** period 10s fl. 0.5s, ec. 1s fl. 0.5s, ec. 8s	36 **11**		Red hull.	**Radar reflector.**
	RACON		**K(– • –)**				(3cm).
18688 *P 3826*	Ch'ing Tao.	36° 03.2′ N 120° 19.1′ E	**Fl.R.** period 6.5s fl. 0.5s, ec. 6s	91 **28**	12	White octagonal masonry tower; 39.	Reserve light range 3M.
18690 *P 3827*	-Tuandao Wan.	36° 03.0′ N 120° 18.1′ E	**Fl.G.** period 4s	32 **10**	8	Green round concrete pile, white bands; 20.	
18692 *P 3824*	**Tuan Dao.**	36° 02.7′ N 120° 17.0′ E	**Oc.W.R.G.** period 5s lt. 4s, ec. 1s	78 **24**	**15**	White octagonal masonry tower, black bands; 50.	R. 253°-283°, W.-184°, G.-213°. **Horn:** 4 bl. ev. 30s (bl. 5s, si. 2s, bl. 2s, si. 2s, bl. 5s, si. 2s, bl. 5s, si. 7s).
	RACON		**Y(– • – –)**				(3cm).
18694 *P 3824.25*	Huandao, *Buoy No 31.*	36° 01.9′ N 120° 15.4′ E	**Q.R.**			Superbuoy, square daymark.	
	RACON		**M(– –)**				(3cm).
18700 *P 3825*	*ZHONGSHA JIAO LIGHTSHIP.*	36° 04.0′ N 120° 15.3′ E	**Fl.W.** period 6s fl. 0.5s, ec. 5.5s	33 **10**	6	Red hull.	**Radar reflector.**
	RACON		**Z(– – • •)**				(3cm).
18704 *P 3832*	-Mati Jiao.	36° 04.6′ N 120° 17.4′ E	**Fl.W.** period 8s	28 **9**	12	White round masonry tower, black bands; 36.	
	-RACON		**C(– • – •)**				(3cm).
18708 *P 3836*	Da Gang, N. breakwater, head.	36° 05.4′ N 120° 18.2′ E	**Iso.W.** period 4s	39 **12**	10	White concrete column; 26.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			CHINA				
18720 *P 3837.5*	-Da Gang Entrance Left, Wharf No 5, S. head.	36° 05.4′ N 120° 18.5′ E	**F.R.**	28 **9**	7	White round stone pile, red bands; 16.	
18728 *P 3837*	-Da Gang Entrance Right, wharf No 1, W. head.	36° 05.3′ N 120° 18.7′ E	**F.G.**	29 **9**	8	White masonry structure, green bands; 16.	
18732 *P 3844*	-Da Gang Range, front, mole No 2, NW. head.	36° 05.4′ N 120° 19.0′ E	**Iso.G.** period 2s	36 **11**	3	White metal framework tower, black trapezoidal daymark, white stripes; 30.	
18736 *P 3844.1*	--Rear, 1120 meters 074° from front.	36° 05.6′ N 120° 19.6′ E	**Iso.G.** period 2s	62 **19**	4	White iron framework tower, black trapezoidal daymark, white stripes; 60.	
18740 *P 3847*	-Huang Dao oil wharf, front.	36° 04.2′ N 120° 13.4′ E	**F.G.**	52 **16**	3	White round metal tower, black bands; 37.	
18744 *P 3847.1*	--Rear, 1016 meters 163°30′ from front.	36° 03.6′ N 120° 13.6′ E	**F.G.**	62 **19**	3	White round metal tower, black bands; 37.	Visible 161°-166°.
18748 *P 3847.5*	--Wharf.	36° 03.8′ N 120° 13.6′ E	**F.R.**	36 **11**	3	Red round metal tower; 21.	
18749.2 *P 3824.41*	Qingdaohaiye Oil Pier, N. head.	36° 03.4′ N 120° 14.6′ E	**Iso.G.** period 4s	59 **18**	10	Green fiberglass tower, white bands; 26.	
18749.5 *P 3824.39*	-S. head.	36° 03.1′ N 120° 14.6′ E	**Iso.R.** period 4s	59 **18**	6	Red fiberglass tower, white bands; 26.	
18749.6 *P 3824.38*	Huangdao Oil Terminal, No 2, N. head.	36° 03.1′ N 120° 14.6′ E	**F.R.**				
18749.65 *P 3824.37*	--S head.	36° 02.8′ N 120° 14.5′ E	**F.G.**				
18749.7 *P 3824.36*	-No 3, N. head.	36° 02.8′ N 120° 14.5′ E	**Fl.(2)G.** period 5s				
18749.75 *P 3824.35*	--S. head.	36° 02.5′ N 120° 14.5′ E	**Fl.(2)R.** period 5s				
18749.8 *P 3824.34*	Huangdao, breakwater, head.	36° 02.5′ N 120° 13.7′ E	**F.R.**				
18749.95 *P 3812.45*	Liujia Dao.	35° 55.5′ N 120° 11.0′ E	**Iso.W.** period 4s	43 **13**	5	Black and white tower; 26.	
18749.96 *P 3812.48*	Tangdao Wan, breakwater, head.	35° 56.7′ N 120° 12.4′ E	**Iso.R.** period 4s	36 **11**	5	Red and white tower; 26.	
18749.97 *P 3812.5*	Jimiya Gang, breakwater, head.	35° 55.2′ N 120° 09.8′ E	**Iso.G.** period 4s	36 **11**	5	Green and white tower; 26.	
18749.99 *P 3812.8*	Dawan Gang, breakwater, head.	35° 54.7′ N 120° 08.4′ E	**Iso.G.** period 4s	39 **12**	5	Green and white tower; 26.	
18750 *P 3813*	Lingshan Chuanchang, pier, head.	35° 54.6′ N 120° 08.2′ E	**F.R.**	30 **9**			
18751 *P 3809*	**Dazhushan Zui.**	35° 43.7′ N 120° 00.2′ E	**Fl.W.** period 3s fl. 1s, ec. 2s	545 **166**	**20**	White concrete tower, black bands; 33.	
	RACON		**G(– – •)**				(3cm).
18751.2 *P 3808.8*	Zhaitang.	35° 37.5′ N 119° 55.4′ E	**Fl.W.** period 6s fl. 0.5s, ec. 5.5s	262 **80**	10	Square stone tower; 39.	Fishing light.
18751.3 *P 3808.65*	Dongjiakou Gangqu, Huaneng pier.	35° 35.9′ N 119° 47.7′ E	**F.R.**	39 **12**	8	White fiberglass tower, red bands; 26.	
18751.4 *P 3808.6*	Dongjiakou Zui.	35° 35.1′ N 119° 45.4′ E	**Fl.W.** period 1.5s fl. 0.3s, ec. 1.2s	89 **27**	6	Round stone tower; 36.	Shown Apr. to Aug. Fishing light.
18752 *P 3808*	**Rizhao.**	35° 23.7′ N 119° 33.6′ E	**Fl.W.** period 8s fl. 0.5s, ec. 7.5s	128 **39**	**18**	White concrete tower; 119.	**AIS.**

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			CHINA				
18753 *P 3808.2*	-Coal Pier Range, front.	35° 22.7′ N 119° 33.8′ E	**F.R.**	65 **20**	5	Metal framework tower, diamond daymark; 69.	
18753.1 *P 3808.21*	--Rear, 330 meters 345°45′ from front.	35° 22.8′ N 119° 33.8′ E	**F.R.**	95 **29**	5	Metal framework tower, diamond daymark; 92.	
18753.4 *P 3808.1*	Bulk Pier.	35° 22.1′ N 119° 32.4′ E	**Iso.W.** period 4s	43 **13**	5	Red and white fiberglass tower; 26.	
18753.7 *P 3808.4*	--Head.	35° 21.9′ N 119° 34.1′ E	**F.R.**				
18753.9 *P 3807.7*	Kuishan Zui.	35° 20.3′ N 119° 30.7′ E	**F.R.**	55 **17**	6	Triangular wooden framework structure.	Fishing light.
18753.91 *P 3806.5*	Lanshan Gang, chemical pier.	35° 05.3′ N 119° 22.4′ E	**Oc.G.** period 5s lt. 3s, ec. 2s	43 **13**	8	White pile, green bands; 36.	
18754.1 *P 3805.84*	Zhewanghai Kou, E.	35° 03.5′ N 119° 13.7′ E	**Fl.(3)G.** period 10s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 6.5s	33 **10**	5	Square metal framework beacon; 30.	
18756 *P 3806*	**Cheniu Shan.**	34° 59.7′ N 119° 49.3′ E	**Fl.W.** period 12s fl. 1s, ec. 11s	285 **87**	**24**	White round concrete tower; 72.	Obscured over small area by Ping Dao and Danian Shan. Reserve light range 15M.
	RACON		**C(– • – •)**				(3cm).
	LIANYUN GANG:						
18760 *P 3804*	**-Yangwo Tou.**	34° 45.4′ N 119° 29.7′ E	**Fl.(3)W.** period 20s	410 **125**	**18**	White square concrete tower; 52.	Reserve light range 5M.
18761 *P 3800.5*	-Tide gauge.	34° 45.9′ N 119° 36.0′ E	**Fl.(2)W.** period 5s			ISOLATED DANGER BRB, beacon, topmark.	
18762 *P 3802.4*	-W. breakwater.	34° 44.8′ N 119° 27.3′ E	**Mo.(C)Y.** period 12s	43 **13**	2	SPECIAL Y, beacon, "X" topmark; 39.	
18764 *P 3802.3*	-E. breakwater.	34° 44.6′ N 119° 27.5′ E	**Mo.(C)Y.** period 12s	49 **15**	2	SPECIAL Y, beacon, "X" topmark; 39.	
18765 *P 3803.2*	-Xilian Dao, breakwater, head.	34° 46.6′ N 119° 26.2′ E	**Fl.R.** period 4s	56 **17**	5	Red pile beacon; 30.	
18768 *P 3802.5*	-Pier No 2, NE. head.	34° 44.4′ N 119° 27.1′ E	**Q.W.**	20 **6**	5	N. CARDINAL BY, beacon, topmark; 18.	
18776 *P 3800.97*	-Shaoxiang Hekou, S.	34° 40.1′ N 119° 27.5′ E	**Fl.(2)R.** period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	66 **20**	5	White round metal column, red bands; 39.	
18777 *P 3800.7*	-Main Channel A Range, front.	34° 43.8′ N 119° 29.5′ E	**Iso.W.** period 4s	121 **37**	**20**	Metal framework tower, black rectangular daymark, white stripes; 131.	F.Y. lights mark channel limits.
18777.1 *P 3800.71*	--Rear, 1470 meters 243° from front.	34° 43.3′ N 119° 28.3′ E	**Iso.W.** period 4s	213 **65**	**20**	Metal framework tower, black rectangular daymark, white stripes; 158.	Synchronized.
			Iso.R. period 4s	249 **76**	7	Red rectangular daymark, white stripes.	
18778 *P 3800.8*	-Main Channel B Range, front.	34° 43.7′ N 119° 31.0′ E	**F.R.**	52 **16**	5	Metal framework tower, concrete base, white rectangular daymark, black stripe; 36.	Warning light range 1M.
18778.1 *P 3800.81*	--Rear, 810 meters 112° from front.	34° 43.6′ N 119° 31.5′ E	**F.R.**	88 **27**	5	Metal framework tower, concrete base, rectangular daymark, black stripe; 72.	Warning light range 1M.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			CHINA				
18778.13 *P 3803*	-Basin No 1 Range, front.	34° 44.1′ N 119° 27.1′ E	**Q.R.**	69 **21**	3	Red metal framework tower, white triangular daymark point up, black stripe; 62.	
18778.15 *P 3803.1*	--Rear, 159 meters 210°55′ from front.	34° 44.0′ N 119° 27.0′ E	**Q.R.**	85 **26**	3	Red metal framework tower, white triangular daymark point up, black stripe; 43.	Synchronized.
18778.2 *P 3803.85*	-Kangyun Oil Pier Range, front.	34° 44.8′ N 119° 28.7′ E	**F.R.**	59 **18**	3	Metal framework tower, black and white rectangular daymark; 30.	
18778.21 *P 3803.86*	--Rear, 230 meters 000° from front.	34° 45.0′ N 119° 28.7′ E	**F.R.**	95 **29**	3	Masonry tower, black and white rectangular daymark; 15.	
18778.25 *P 3803.81*	-Kangyun Oil Basin Range, front.	34° 44.9′ N 119° 28.5′ E	**F.G.**	49 **15**	3	Metal framework tower, black and white round daymark; 20.	
18778.26 *P 3803.82*	--Rear, 130 meters 000° from front.	34° 45.0′ N 119° 28.5′ E	**F.G.**	69 **21**	3	Metal framework tower, black and white round daymark; 30.	
18778.5 *P 3803.25*	-Xidadi Range, front.	34° 45.8′ N 119° 25.0′ E	**Iso.R.** period 2s	98 **30**	10	Four-sided metal framework tower, white rectangular daymark, red stripe; 92.	
18778.55 *P 3803.251*	--Rear, 864 meters 291°58′ from front.	34° 45.9′ N 119° 24.5′ E	**Iso.R.** period 2s	174 **53**	10	Four-sided metal framework tower, white rectangular daymark, red stripe; 158.	
18778.6 *P 3803.6*	-Shuidao Range, front.	34° 45.2′ N 119° 27.8′ E	**Iso.R.** period 2s	299 **91**	10	Three-sided metal framework tower, white rectangular daymark, red stripe; 43.	
18778.7 *P 3803.61*	--Rear, 860 meters 090° from front.	34° 45.2′ N 119° 28.4′ E	**Iso.R.** period 2s	413 **126**	10	Three-sided metal framework tower, white rectangular daymark, red stripe; 92.	
18778.8 *P 3803.48*	-Miaosan Container Wharf.	34° 44.9′ N 119° 26.9′ E	**Iso.R.** period 4s	43 **13**	4	White metal column, red bands; 30.	
18779 *P 3803.5*	-Coal pier.	34° 45.0′ N 119° 24.9′ E	**Fl.R.** period 2s	69 **21**	3	White round metal column, red bands; 39.	
18779.1 *P 3803.43*	-Xishu.	34° 45.7′ N 119° 19.7′ E	**Fl.W.** period 4s	85 **26**	5	White metal column, red bands; 39.	
18779.2 *P 3803.3*	-Zhu Dao.	34° 46.4′ N 119° 20.6′ E	**Fl.W.** period 4s fl. 0.5s, ec. 3.5s	236 **72**	7	White concrete column, green bands; 49.	
18779.3 *P 3803.4*	-Xugou Range, front.	34° 45.1′ N 119° 22.5′ E	**Fl.W.** period 3s fl. 0.5s, ec. 2.5s	164 **50**	10	Metal framework tower, concrete base, white rectangular daymark, black stripe; 161.	N. and S. limit of channel marked by F.Y. lights in line.
18779.31 *P 3803.41*	--Rear, 1330 meters 269°58′ from front.	34° 45.1′ N 119° 21.6′ E	**Fl.W.** period 3s fl. 0.5s, ec. 2.5s	266 **81**	10	White round concrete tower, white rectangular daymark, black stripe; 75.	Visible 225°-315°. Reserve light F.R. 4M.
	--RACON		**M(– –)**				Azimuth coverage 315°-225°. (3cm).
18779.315 *P 3799.51*	Xuwei Ocean Station.	34° 39.9′ N 119° 38.7′ E	**Mo.(U)W.** period 15s	49 **15**	10	Yellow four-sided concrete column; 46.	**AIS** (MMSI No 999412112).
18779.316 *P 3799.5*	Fuzi Kou.	34° 33.2′ N 119° 39.2′ E	**Fl.(3)G.** period 10s	43 **13**	5	Metal structure; 39.	
18779.317 *P 3799.52*	Guanhe Kou, W.	34° 31.5′ N 119° 41.5′ E	**Fl.(3)R.** period 10s	66 **20**	5	Metal tower; 39.	
18779.318 *P 3799*	Yanwei Gang.	34° 28.9′ N 119° 46.9′ E	**Fl.(3)G.** period 10s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 6.5s	46 **14**	5	White concrete column, black bands; 26.	
	RACON		**Y(– • – –)**				(3cm).

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			CHINA				
18779.319 *P 3799.05*	Diaowei He.	34° 28.3′ N 119° 46.9′ E	**Fl.G.** period 4s	46 **14**	4	Gray four-sided metal column; 39.	
18779.32 *P 3798*	**Kaishan Dao.**	34° 31.8′ N 119° 52.3′ E	**Fl.W.** period 5s	154 **47**	**18**	White round concrete tower; 42.	Reserve light range 5M.
	RACON		**K(– • –)**				(3cm).
18779.321 *P 3797.8*	-Wind Tower, No 1.	34° 32.7′ N 119° 54.1′ E	**Mo.(C)Y.** period 12s	30 **9**	5	SPECIAL Y, beacon, "X" topmark.	
	-RACON		**C(– • – •)**				(3cm).
18779.34 *P 3796.8*	Zhendongzha Kou, R.	34° 12.5′ N 120° 17.8′ E	**Fl.(2)G.** period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	56 **17**	5	White metal column, green bands; 43.	
	Racon		**X(– • • –)**				(3cm).
18779.38 *P 3795.3*	Sheyang Wind Tower.	33° 57.1′ N 120° 35.4′ E	**Mo.(C)Y.** period 12s	52 **16**	4	Yellow four-sided metal framework tower.	**AIS** (MMSI No 999412113).
18779.39 *P 3795.4*	--No H4.	33° 58.1′ N 120° 51.0′ E	**Mo.(C)Y.** period 12s	56 **17**	4	SPECIAL Y, beacon, "X" topmark; 39.	**AIS** (MMSI No 999412120).
18779.4 *P 3795*	Sheyanghe Kou.	33° 49.2′ N 120° 28.8′ E	**Fl.(2)W.** period 12s fl. 0.5s, ec. 1s fl. 0.5s, ec. 10s	89 **27**	6	White metal framework tower, red bands.	
	RACON		**O(– – –)**				(3cm).
18779.5 *P 3794.5*	Xinyanggang Kou.	33° 39.0′ N 120° 34.0′ E	**Fl.W.** period 12s fl. 0.5s, ec. 11.5s	89 **27**	12	Wooden framework tower; 95.	Fishing light. Reserve light range 6M.
18779.6 *P 3794.2*	Doulonggang.	33° 28.9′ N 120° 40.1′ E	**Fl.(3)W.** period 12s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 7s	33 **10**	10	Black wooden framework tower.	
18779.65 *P 3794.175*	Chuandongzha.	33° 04.1′ N 120° 51.7′ E	**Fl.W.** period 4s	69 **21**	7	White concrete column, green bands; 49.	
18779.7 *P 3794.18*	Chuandonggang Kou.	32° 57.8′ N 121° 19.5′ E	**Fl.W.** period 12s fl. 1s, ec. 11s	33 **10**	10	Black metal pile; 33.	
18779.79 *P 3794.168*	Yangkou Gang, NW.	32° 33.8′ N 121° 02.3′ E	**Fl.G.** period 4s	59 **18**	5	White metal column, green bands; 39.	
	RACON		**X(– • • –)**				(3cm).
18779.8 *P 3794.14*	Xiaoyang Gang.	32° 30.2′ N 121° 07.2′ E	**Fl.(2)W.** period 6s	30 **9**	7	Framework tower.	Fishing light.
18779.81 *P 3794.137*	Liubu Gang, W.	32° 30.0′ N 121° 11.9′ E	**Fl.(3)G.** period 10s	62 **19**	5	White metal column, green bands; 39.	
18779.82 *P 3794.138*	-E.	32° 29.0′ N 121° 13.3′ E	**Fl.(3)R.** period 10s	62 **19**	5	White metal column, red bands; 39.	
18779.85 *P 3794.199*	**Macaiheng**.	33° 21.8′ N 121° 20.8′ E	**Fl.W.** period 6.5s	85 **26**	**15**	White round beacon.	Reserve light Fl.W. 5s 5M.
	RACON		**D(– • •)**				(3cm).
18779.88 *P 3794.1717*	Rudong Wind Tower, No 6.	32° 42.2′ N 121° 26.6′ E	**Mo.(C)Y.** period 12s	36 **11**	4	SPECIAL Y, beacon, "X" topmark; 30.	**AIS** (MMSI No 999412122).
18779.89 *P 3794.1719*	-No 7.	32° 49.4′ N 121° 40.7′ E	**Mo.(C)Y.** period 15s	36 **11**	4	SPECIAL Y, beacon, "X" topmark; 30.	**AIS** (MMSI No 999412123).
18779.9 *P 3794.172*	**Waikejiao**.	33° 00.9′ N 121° 38.4′ E	**Fl.W.** period 5s	85 **26**	**15**	White round beacon.	Reserve light range 5M.
	RACON		**D(– • •)**				(3cm).

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			CHINA				
18779.91 *P 3794.046*	Tanglugang Kou, S.	31° 55.7′ N 121° 50.0′ E	**Fl.R.** period 4s	56 **17**	5	White concrete column, red bands; 46.	
18779.93 *P 3794.114*	Dayang Gang, E.	32° 05.0′ N 121° 35.9′ E	**Fl.(3)R.** period 10s	66 **20**	5	White metal column, red bands; 39.	
	RACON		**M(– –)**				(3cm).
18779.94 *P 3794.135*	Yaowang Gang.	32° 08.6′ N 121° 27.5′ E	**Fl.R.** period 4s fl. 0.5s, ec. 3.5s	62 **19**	5	White metal column, red bands; 16.	
18779.95 *P 3794.136*	Dongling Gang.	32° 16.6′ N 121° 26.3′ E	**Fl.R.** period 4s	66 **20**	5	White hexagonal concrete tower, red bands; 46.	
			CHINA-CH'ANG CHIANG (YANGTZE RIVER)				
18780 *P 3762*	**Sheshan.**	31° 25.3′ N 122° 14.5′ E	**Fl.W.** period 6s	230 **70**	**22**	Black round tower, white dwelling; 55.	Reserve light Fl.W. 6s 15M.
18784 *P 3753*	**Jigu Jiao.**	31° 10.4′ N 122° 22.9′ E	**Fl.W.** period 5s fl. 1s, ec. 4s	171 **52**	**18**	White round fiberglass tower, red bands; 66.	Reserve light Fl.W. 5s 10M.
	RACON		**B(– • • •)**				
18792 *P 3752*	*CHANGJIANG KOU LIGHTSHIP.*	31° 06.2′ N 122° 32.0′ E	**Fl.W.** period 6s		10	Red hull.	**AIS** (MMSI No 999412205). **Bell.** **Radar reflector.**
	RACON		**O(– – –)**				(3cm).
18793	*Changjiang Kou Buoy No S12.*	31° 03.2′ N 122° 08.2′ E	**Mo.(A)W.** period 6s			SAFE WATER RW, buoy, topmark.	
	RACON		**X(– • • –)**				(3cm).
18794 *P 3751*	*NANCAO LIGHTFLOAT.*	30° 59.5′ N 122° 32.0′ E	**Fl.(3)W.** period 15s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 11.5s		10	Red hull.	**AIS** (MMSI No 999412204). **Bell.** **Radar reflector.**
	RACON		**N(– •)**				(3cm).
18796 *P 3750*	*NANZI LIGHTSHIP.*	30° 58.5′ N 122° 11.1′ E	**Fl.W.** period 10s fl. 0.8s, ec. 9.2s		10	Red hull.	**AIS** (MMSI No 999412209). **Bell.** **Radar reflector.**
	RACON		**M(– –)**				(3cm).
18808 *P 3754.2*	Niupi Jiao tide station.	31° 08.4′ N 122° 15.1′ E	**V.Q.(6)+L.Fl.W.** period 10s	39 **12**	7	S. CARDINAL YB, beacon, topmark.	
	RACON		**C(– • – •)**				(3cm).
18816 *P 3767*	Zhong Jun.	31° 06.7′ N 121° 54.3′ E	**Mo.(O)Y.** period 12s	28 **9**	4	SPECIAL Y, beacon, "X" topmark; 30.	
18816.5 *P 3767.5*	-Hydrometers Station, No 2.	31° 06.9′ N 121° 54.6′ E	**Mo.(C)Y.** period 12s	52 **16**	10	Yellow metal post; 10.	**AIS** (MMSI No 999412227).
18824 *P 3768*	*JIUDUAN LIGHTSHIP.*	31° 05.5′ N 121° 59.7′ E	**Fl.(2)W.** period 10s		7	Metal pillar beacon, red hull.	**AIS** (MMSI No 999412208). **Bell.** **Radar reflector.**
	RACON		**K(– • –)**				(3cm).
18824.1 *P 3768.9*	Chuanyang He, No 1.	31° 13.5′ N 121° 45.9′ E	**Fl.G.** period 6s	33 **10**	3	White metal column, green bands; 23.	
18824.2 *P 3768.8*	-No 2.	31° 13.2′ N 121° 46.1′ E	**Fl.R.** period 6s	33 **10**	3	White metal column, red bands; 23.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			CHINA-CH'ANG CHIANG (YANGTZE RIVER)				
18824.3 *P 3764.6*	Dazhi He, No 1.	31° 02.1′ N 121° 59.3′ E	**Fl.G.** period 6s	25 **8**	3	White metal column, green bands; 23.	**AIS** (MMSI No 999412244).
18824.4 *P 3764.5*	-No 2.	31° 01.8′ N 121° 59.7′ E	**Fl.R.** period 6s	30 **9**	3	White metal column, red bands; 23.	
	-RACON		**O(– – –)**				
18825 *P 3754.61*	North Training Wall, No 1.	31° 17.9′ N 121° 52.8′ E	**Fl.Y.** period 6s	16 **5**	3	Black pile.	
18825.01 *P 3754.613*	-No 2.	31° 17.8′ N 121° 55.3′ E	**Fl.(2)Y.** period 6s	16 **5**	3	Black pile.	
18825.02 *P 3754.616*	-No 3.	31° 17.7′ N 121° 58.4′ E	**Fl.(3)Y.** period 6s	16 **5**	3	Black pile.	
18825.03 *F 3754.619*	-No 4.	31° 17.0′ N 122° 02.0′ E	**Fl.Y.** period 6s	16 **5**	3	Black pile.	
18825.04 *P 3754.622*	-No 5.	31° 15.8′ N 122° 05.5′ E	**Fl.(2)Y.** period 6s	16 **5**	3	Black pile.	
18825.05 *P 3754.625*	-No 6.	31° 14.4′ N 122° 08.0′ E	**Fl.(3)Y.** period 6s	16 **5**	3	Black pile.	
18825.06 *P 3754.626*	-No 7.	31° 12.9′ N 122° 10.5′ E	**Fl.Y.** period 6s		5	Black pile; 26.	
18825.07 *P 3754.627*	-No 8.	31° 11.6′ N 122° 12.7′ E	**Fl.(2)Y.** period 6s		5	Black pile; 33.	
18825.08 *P 3754.628*	-No 9.	31° 10.2′ N 122° 14.9′ E	**Fl.(3)Y.** period 6s		5	Black pile; 33.	
18825.09 *P 3754.638*	-No 10.	31° 08.9′ N 122° 17.1′ E	**Fl.Y.** period 6s		5	Black pile; 33.	
18825.1 *P 3754.63*	-N. spur, No 1.	31° 17.1′ N 121° 52.6′ E	**Q.Y.**	26 **8**	5	Black metal column; 33.	
18825.11 *P 3754.633*	--No 2.	31° 16.4′ N 121° 55.0′ E	**Q.Y.**	26 **8**	5	Black metal column; 33.	
18825.12 *P 3754.636*	--No 3.	31° 15.9′ N 121° 58.0′ E	**Q.Y.**	26 **8**	5	Black metal column; 33.	
18825.13 *P 3754.6191*	--No 4.	31° 15.4′ N 122° 01.5′ E	**Q.Y.**	26 **8**	5	Black metal column; 33.	
18825.14 *P 3754.6221*	--No 5.	31° 14.7′ N 122° 04.9′ E	**Q.Y.**	26 **8**	5	Black metal column; 33.	
18825.15 *P 3754.6251*	--No 6.	31° 13.8′ N 122° 07.5′ E	**Q.Y.**	33 **10**	5	Black metal column; 39.	
18825.16 *P 3754.6261*	--No 7.	31° 12.4′ N 122° 10.2′ E	**Q.Y.**		5	Black pile; 33.	
18825.17 *P 3754.6271*	--No 8.	31° 11.1′ N 122° 12.4′ E	**Q.Y.**		5	Black pile; 39.	
18825.18 *P 3754.6281*	--No 9.	31° 09.8′ N 122° 14.6′ E	**Q.Y.**		5	Black pile; 39.	
18825.19 *P 3754.6381*	--No 10.	31° 08.5′ N 122° 16.8′ E	**Q.Y.**		5	Black pile; 39.	
18825.2 *P 3754.639*	-Head.	31° 07.8′ N 122° 18.9′ E	**Fl.(2)Y.** period 6s		5	Green and white column; 39.	
18826.01 *P 3754.67*	South Training Wall, S. spur, No 1.	31° 15.4′ N 121° 52.2′ E	**Q.Y.**	16 **5**	3	Black pile.	
18826.02 *P 3754.673*	--No 2.	31° 14.7′ N 121° 55.2′ E	**Q.Y.**	16 **5**	3	Black pile.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			CHINA-CH'ANG CHIANG (YANGTZE RIVER)				
18826.03 *P 3754.676*	--No 3.	31° 14.2′ N 121° 58.3′ E	**Q.Y.**	26 **8**	5	Black metal column; 33.	
18826.04 *P 3754.656*	--No 4.	31° 13.8′ N 122° 01.5′ E	**Q.Y.**	26 **8**	5	Black metal column; 33.	
18826.05 *P 3754.657*	--No 5.	31° 13.0′ N 122° 04.8′ E	**Q.Y.**	26 **8**	5	Black metal column; 33.	
18826.06 *P 3754.659*	--No 6.	31° 11.6′ N 122° 07.4′ E	**Q.Y.**	33 **10**	5	Black metal column; 39.	
18826.07 *P 3754.663*	--No 7.	31° 10.0′ N 122° 09.7′ E	**Q.Y.**	33 **10**	5	Black metal column; 39.	
18826.08 *P 3754.665*	--No 8.	31° 08.5′ N 122° 12.0′ E	**Q.Y.**		5	Black pile; 39.	
18826.09 *P 3754.667*	--No 9.	31° 07.0′ N 122° 14.3′ E	**Q.Y.**		5	Black pile; 39.	
18826.1 *P 3754.64*	-No 1.	31° 16.9′ N 121° 46.6′ E	**Fl.Y.** period 6s	16 **5**	3	White pile, red bands.	
18826.11 *P 3754.643*	-No 2.	31° 15.8′ N 121° 49.5′ E	**Fl.(2)Y.** period 6s	16 **5**	3	Black pile.	
18826.12 *P 3754.646*	-No 3.	31° 15.0′ N 121° 52.1′ E	**Fl.(3)Y.** period 6s	16 **5**	3	Black pile.	
18826.13 *P 3754.649*	-No 4.	31° 14.3′ N 121° 55.1′ E	**Fl.Y.** period 6s	16 **5**	3	Black pile.	
18826.14 *P 3754.652*	-No 5.	31° 13.7′ N 121° 58.2′ E	**Fl.(2)Y.** period 6s	16 **5**	3	Black pile.	
18826.15 *P 3754.655*	-No 6.	31° 13.0′ N 122° 01.2′ E	**Fl.(3)Y.** period 6s	16 **5**	3	Black pile.	
18826.16 *P 3754.658*	-No 7.	31° 11.9′ N 122° 04.1′ E	**Fl.Y.** period 6s	16 **5**	3	Black pile.	
18826.17 *P 3754.661*	-No 8.	31° 10.5′ N 122° 06.5′ E	**Fl.(2)Y.** period 6s	16 **5**	3	Black pile.	
18826.18 *P 3754.662*	-No 9.	31° 09.0′ N 122° 08.8′ E	**Fl.(3)Y.** period 6s		5		
18826.19 *P 3754.664*	-No 10.	31° 07.5′ N 122° 11.1′ E	**Fl.Y.** period 6s		5		
18826.2 *P 3754.666*	-Head.	31° 05.9′ N 122° 13.5′ E	**Fl.(2)Y.** period 6s		5		
18826.3 *P 3754.679*	South Branch, No 1.	31° 16.2′ N 121° 47.2′ E	**Q.Y.**	16 **5**	3	Black pile.	
18828 *P 3754.7*	Beicaozhong tide station.	31° 14.0′ N 122° 00.5′ E	**Mo.(O)Y.** period 12s	39 **12**	4	SPECIAL Y, beacon, "X" topmark.	
	RACON		**G(– – •)**				(3cm).
18829 *P 3754.69*	**Hengsha.**	31° 18.0′ N 121° 50.9′ E	**Fl.W.** period 8s	187 **57**	**18**	White four-sided concrete tower; 187.	**AIS.** (MMSI No 999412213). Reserve light Fl.W. 8s 10M.
18830 *P 3770*	-Sewer Warning Beacon No 3.	31° 15.9′ N 121° 45.0′ E	**Mo.(C)Y.** period 15s	30 **9**	3	SPECIAL Y, column, "X" topmark.	
	-RACON		**Y(– • – –)**				(3cm).
18834 *P 3770.5*	-*YUANYUAN SHA LANBY.*	31° 19.3′ N 121° 42.2′ E	**Fl.W.** period 10s fl. 0.5s, ec. 9.5s		10	Metal pole, red hull.	**AIS** (MMSI No 999412207). **Bell.**
	-RACON		**Z(– – • •)**				(3cm).
18835 *P 3771*	-Fenghuang.	31° 22.7′ N 121° 41.3′ E	**Mo.(C)Y.** period 12s	31 **9**	3	SPECIAL Y, pile, "X" topmark.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			CHINA-CH'ANG CHIANG (YANGTZE RIVER)				
18835.5 *P 3779.621*	-Qingshui Dam, No 1.	31° 25.3′ N 121° 43.4′ E	**Mo.(C)Y.** period 12s	20 **6**	4	SPECIAL Y, beacon, "X" topmark; 23.	
18835.51 *P 3779.622*	--No 2.	31° 25.3′ N 121° 43.5′ E	**Mo.(C)Y.** period 12s	20 **6**	4	SPECIAL Y, beacon, "X" topmark; 23.	
	HUANGPU JIANG:						
18840 *P 3780*	-Hetang.	31° 23.8′ N 121° 31.1′ E	**Fl.W.** period 5s	56 **17**	13	White round concrete tower; 66.	**AIS** (MMSI No 999412212). Reserve light Fl.W. 5s 7M.
	-RACON		**Y(– • – –)**				(3cm).
18841 *P 3780.2*	-Shigeng, breakwater No 1.	31° 23.8′ N 121° 31.1′ E	**Fl.Y.** period 4s fl. 0.5s, ec. 3.5s	22 **7**	6	Black metal framework structure, ball topmark; 27.	
18842 *P 3780.3*	--No 2.	31° 23.7′ N 121° 31.0′ E	**Fl.Y.** period 4s fl. 0.5s, ec. 3.5s	18 **5**	6	Black metal framework structure, ball topmark; 24.	
18843 *P 3780.4*	--No 3.	31° 23.7′ N 121° 30.9′ E	**Fl.Y.** period 4s fl. 0.5s, ec. 3.5s	19 **6**	6	Black metal framework structure, ball topmark; 23.	
18844 *P 3780.5*	--No 4.	31° 23.7′ N 121° 30.8′ E	**Fl.Y.** period 4s fl. 0.5s, ec. 3.5s	19 **6**	6	Black four-sided concrete structure; 24.	
18845 *P 3780.6*	--No 5.	31° 23.6′ N 121° 30.7′ E	**Fl.Y.** period 4s fl. 0.5s, ec. 3.5s	21 **6**	6	Black four-sided concrete structure; 24.	
18848 *P 3781*	--Range, front.	31° 23.4′ N 121° 30.2′ E	**F.R.**	85 **26**	8	White framework structure, red trapezoidal daymark, white stripes; 79.	
18852 *P 3781.1*	---Rear, 210 meters 250°20′ from front.	31° 23.3′ N 121° 30.1′ E	**F.R.**	112 **34**	8	White framework structure, red trapezoidal daymark, white stripes; 118.	Reserve light Iso.W. 4s.
	---RAMARK						Occasional.
18855 *P 3783*	-Zhajing No 1.	31° 20.6′ N 121° 31.7′ E	**Mo.(C)Y.** period 12s	22 **7**	4	SPECIAL Y, pillar, "X" topmark; 16.	
18858 *P 3785.4*	--Range, front.	31° 19.8′ N 121° 33.6′ E	**F.R.**	36 **11**		Triangular daymark point up.	
18858.1 *P 3785.41*	---Rear, 100 meters 139° from front.	31° 19.7′ N 121° 33.6′ E	**F.W.R.W. (hor.)**	43 **13**		Triangular daymark point up.	1 meter apart.
18859 *F 3785.55*	-Donggou Gang.	31° 17.4′ N 121° 34.0′ E	**Fl.Y.** period 4s	33 **10**	4	Yellow metal post; 30.	
18860 *P 3790*	Baoshan, breakwater No 1.	31° 25.1′ N 121° 29.2′ E	**Fl.Y.** period 2s	20 **6**	3	White and red metal framework tower; 10.	
			CHINA				
18864 *P 3747.4*	**Tung Tao (Haijiao).**	30° 44.1′ N 123° 08.6′ E	**Fl.W.** period 6s fl. 0.5s, ec. 5.5s	190 **58**	**16**	White round concrete structure; 39.	
	RACON		**K(– • –)**				(3cm).
18867 *P 3747.6*	Xiaoji Shan.	30° 42.8′ N 122° 03.1′ E	**Fl.(2)W.** period 8s fl. 0.5s, ec. 1s fl. 0.5s, ec. 6s	171 **52**	10	White metal column; 26.	**AIS** (MMSI No 999412203).
	RACON		**Y(– • – –)**				(3cm).

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			CHINA				
18868 *P 3748*	**Daji Shan.**	30° 48.6′ N 122° 10.4′ E	**Fl.(2)W.** period 10s fl. 0.5s, ec. 1s fl. 0.5s, ec. 8s	302 **92**	**20**	White octagonal concrete tower; 79.	Reserve light range 8M.
18872 *P 3746*	**Huaniao Shan.**	30° 51.7′ N 122° 40.4′ E	**Fl.W.** period 15s fl. 1s, ec. 14s	292 **89**	**24**	Black and white round tower; 52.	Visible 071°-294° and 301°-306°. Reserve light range 6M. **Siren:** 5 bl. ev. 60s (bl. 3s, si. 2s, bl. 3s, si. 2s, bl. 3s, si. 2s, bl. 3s, si. 2s, bl. 3s, si. 37s).
	RACON		**Y(– • – –)**				(3cm).
18876 *P 3747*	Taman Shan (Giffard Rock).	30° 50.0′ N 122° 35.7′ E	**Fl.W.** period 4s	108 **33**	8	White four-sided stone block; 10.	Fishing light.
18876.1 *P 3747.05*	Mantou Shan.	30° 48.4′ N 122° 36.4′ E	**Fl.W.** period 6s fl. 0.5s, ec. 5.5s	89 **27**	10	White concrete column; 33.	**AIS** (MMSI No 999412394).
18876.2 *P 3747.14*	Huangshidong Dao.	30° 42.9′ N 122° 44.2′ E	**Fl.W.** period 4s	102 **31**	4	White round concrete column; 23.	
18876.3 *P 3747.28*	Xiaogong Jiao.	30° 41.6′ N 122° 47.7′ E	**Fl.G.** period 4s	89 **27**	4	White and green round concrete column; 23.	
18876.5 *P 3747.13*	Xibanyang Jiao.	30° 43.1′ N 122° 40.0′ E	**Fl.(2)W.** period 5s	56 **17**	10	White hexagonal concrete column, red bands; 33.	
	RACON		**X(– • • –)**				(3cm).
18876.6 *P 3747.23*	Dazui Dao.	30° 46.4′ N 122° 47.8′ E	**Fl.(2)W.** period 10s fl. 0.5s, ec. 1s fl. 0.5s, ec. 8s	89 **27**	8	White round brick structure; 10.	Fishing light.
18876.7 *P 3747.26*	Menqian Jiao.	30° 41.5′ N 122° 46.5′ E	**Fl.(2)W.** period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	46 **14**	7	White round concrete tower, black bands; 39.	
18876.9 *P 3747.3*	Manyutou Dao.	30° 42.2′ N 122° 49.9′ E	**Fl.W.R.** period 12s fl. 1s, ec. 11s	171 **52**	W. 14 R. 8	White square stone structure; 10.	W. 220°-341°, R.-359°, W.-081°. Fishing light.
18877 *P 3741*	Lisi Jiao.	30° 46.4′ N 122° 27.9′ E	**Fl.(3)W.** period 10s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 6.5s	125 **38**	10	White round concrete tower; 33.	
18877.3 *P 3740.9*	Huyo Jiao.	30° 46.7′ N 122° 26.9′ E	**Fl.(4)W.** period 10s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 5s	33 **10**	7	White round concrete tower; 33.	
18877.4 *P 3740.73*	Houxiaoshan.	30° 46.2′ N 122° 23.5′ E	**Q.W.**	66 **20**	4	Black and yellow metal post; 23.	
18877.5 *P 3740.8*	**Biandao Jiao.**	30° 46.1′ N 122° 26.6′ E	**Fl.W.R.** period 3s fl. 0.5s, ec. 2.5s	30 **9**	W. **18** R. 14	White four-sided concrete tower; 26.	R. 083°-117°30′, W.-166°, R.-183°. Occasional.
18877.7 *P 3740.09*	Tong Jiao.	30° 41.9′ N 122° 31.2′ E	**Fl.W.** period 2s fl. 0.5s, ec. 1.5s	52 **16**	4	White concrete column; 23.	
18878 *P 3740.02*	Mapigu.	30° 40.4′ N 122° 24.7′ E	**Fl.(3)W.** period 10s	420 **128**	9	White round concrete tower, red bands; 52.	
18878.2 *P 3740.027*	Waimati Jiao.	30° 39.8′ N 122° 26.1′ E	**Fl.(2)W.** period 8s fl. 0.5s, ec. 1s fl. 0.5s, ec. 6s	49 **15**	8	White concrete tower; 36.	
	RACON		**M(– –)**				(3cm).

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			CHINA				
18878.5 *P 3740.025*	Neimati.	30° 40.3′ N 122° 26.2′ E	**Fl.W.** period 1.5s	36 **11**	9	White round concrete column; 25.	
18878.7 *P 3740.028*	Limalang Shan.	30° 41.0′ N 122° 28.3′ E	**Fl.(4)W.** period 12s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 7s	36 **11**	4	White concrete column, red bands; 23.	
18879 *P 3740.08*	Daqianzui Tou.	30° 40.8′ N 122° 33.4′ E	**Fl.(3)W.** period 10s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 6.5s	115 **35**	10	White hexagonal column; 28.	
18879.1 *P 3740.06*	Dahuanglong.	30° 40.0′ N 122° 34.8′ E	**Fl.W.** period 4s	299 **91**	9	White round concrete tower, red bands; 52.	
18879.5 *P 3740.055*	**Nandingxing.**	30° 38.9′ N 122° 30.7′ E	**Fl.(2+1)W.** period 9s	423 **129**	**15**	White round concrete tower, red bands; 55.	
	RACON		**Y(– • – –)**				(3cm).
18879.6 *P 3739*	Xiaobanian Shan.	30° 37.5′ N 122° 28.4′ E	**Fl.(2)W.** period 6s	236 **72**	9	White round concrete tower, red bands; 52.	
	PA-KO LIEH-TAO:						
18880 *P 3740*	-Pan-yang Shan, E. end of island.	30° 38.2′ N 122° 22.5′ E	**Fl.W.** period 3s fl. 0.3s, ec. 2.7s	62 **19**	14	Black round concrete tower; 32.	Reserve light F.W. 8M.
	-RACON		**B(– • • •)**				(3cm).
18884 *P 3738*	**-Pai-chieh Shan.**	30° 36.9′ N 122° 25.3′ E	**Al.Fl.W.R.** period 60s	246 **75**	**22**	White round tower, red bands; 47.	Partially obscured 166°-260°. Reserve light F.W. 8M.
18885 *P 3717.99*	-Wind Farm, No 34.	30° 45.7′ N 122° 01.6′ E	**Mo.(C)Y.** period 15s		5		**AIS** (MMSI No 999412220).
18885.8 *P 3718.15*	Shengce, No 5, No 6.	30° 34.2′ N 121° 38.1′ E	**2 Mo.(C)Y.** period 12s	26 **8**	4	SPECIAL Y, pile, "X" topmark; 3.	**AIS** (MMSI No 999412336).
18885.9 *P 3718.25*	Jiace, No 3, No 4.	30° 36.5′ N 121° 27.5′ E	**2 Mo.(C)Y.** period 12s	26 **8**	4	SPECIAL Y, pile, "X" topmark; 3.	**AIS** (MMSI No 999412335).
18886 *P 3718.3*	Dajinshan Dao.	30° 41.5′ N 121° 25.2′ E	**Fl.(3)W.** period 10s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 6.5s	344 **105**	10	White metal column, red stripes; 30.	
18886.5 *P 3718.498*	Yi Shan.	30° 37.4′ N 121° 09.0′ E	**Fl.W.** period 2s fl. 0.5s, ec. 1.5s	66 **20**	10	White concrete column; 43.	
18887 *P 3718.53*	Guancai Jiao.	30° 35.6′ N 121° 08.5′ E	**Fl.(2)W.** period 5s	43 **13**	4	Black round concrete column, red bands; 33.	**AIS** (MMSI No 999412371).
18887.4 *P 3717.972*	--No 17.	30° 49.7′ N 121° 55.8′ E	**F.G.**				
18887.45 *P 3717.968*	--No 13.	30° 46.8′ N 121° 57.4′ E	**F.G.**				
18887.5 *P 3717.9*	Luchao Gang, No 1.	30° 50.6′ N 121° 50.6′ E	**Fl.Y.** period 4s	36 **11**	5	Red metal framework tower; 36.	
18887.51 *P 3717.964*	--No 7.	30° 43.5′ N 121° 58.5′ E	**F.G.**				**AIS** (MMSI No 999412210). F.G. on each side.
	--RACON		**T(–)**				(3cm).
18887.52 *P 3717.96*	-Donghai Bridge, Trial Warning, No 3.	30° 40.6′ N 121° 59.8′ E	**Fl.(2)W.** period 5s	36 **11**	3	ISOLATED DANGER BRB, beacon, topmark; 16.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			CHINA				
18887.53 *P 3717.961*	--No 2.	30° 40.4′ N 121° 59.9′ E	**F.G.**				
18887.54 *P 3717.962*	--No 3.	30° 40.5′ N 121° 59.9′ E	**F.G.**				
18887.7 *P 3717.31*	Shengsi Wind Farm, Wind Tower, No 1, No 2.	30° 41.0′ N 121° 49.7′ E	**Mo.(C)Y.** period 12s	26 **8**	4	SPECIAL Y, column, "X" topmark; 3.	**AIS** (MMSI No 999412325).
18888 *P 3717.5*	Ziaowugui.	30° 39.6′ N 122° 00.7′ E	**Fl.W.** period 4s fl. 0.5s, ec. 3.5s	98 **30**	10	White concrete tower, black bands; 35.	Fishing light.
18888.5 *P 3717.33*	Shengsi Wind Farm, Wind Tower, No 3, No 4.	30° 43.7′ N 122° 08.7′ E	**Mo.(C)Y.** period 15s	26 **8**	4	SPECIAL Y, column, "X" topmark; 3.	**AIS** (MMSI No 999412326).
18892 *P 3717*	**Tangnao Shan.**	30° 35.8′ N 121° 58.1′ E	**Fl.(3)W.** period 10s	135 **41**	**18**	White round concrete tower; 72.	Visible 326°-323°. Reserve light F.W. 7M.
	RACON		**Z(– – • •)**				(3cm).
18892.3 *P 3717.754*	**Qiqu Liedao.**	30° 35.6′ N 122° 05.1′ E	**Fl.W.** period 10s	328 **100**	**18**		**AIS** (MMSI No 999412215).
18892.31 *P 3717.74*	Shaoji Dao.	30° 35.3′ N 122° 07.6′ E	**Fl.(2)W.** period 6s	115 **35**	10	White round concrete tower; 40.	
18892.32 *P 3717.78*	Huxiaoshe Dao.	30° 34.9′ N 122° 09.0′ E	**Fl.W.** period 4s	131 **40**	10	White round concrete tower; 46.	
18892.34 *P 3717.79*	Xima Shan Dao, N.	30° 34.1′ N 122° 08.4′ E	**Fl.W.** period 4s fl. 0.5s, ec. 3.5s	85 **26**	7	White metal column; 33.	
18892.4 *P 3718.84*	Huangze Shan.	30° 31.8′ N 122° 20.5′ E	**Fl.(2)W.** period 6s	115 **35**	10	Red and white round concrete tower; 46.	
18892.45 *P 3718.81*	-**Xiaoqu Shan.**	30° 31.6′ N 122° 15.9′ E	**Fl.(4)W.** period 15s	525 **160**	**15**	White concrete tower; 62.	
	-RACON		**C(– • – •)**				(3cm).
18892.48 *P 3718.89*	Xugong Dao.	30° 37.9′ N 122° 16.4′ E	**Fl.(4)W.** period 10s	95 **29**	7	White concrete column; 33.	
	RACON		**G(– – •)**				(3cm).
18892.5 *P 3718.82*	Xiaoqu Zui.	30° 30.9′ N 122° 15.2′ E	**Fl.(2)W.** period 8s	39 **12**	4	White concrete tower; 23.	
18892.7 *P 3734.8*	Xiahai Shan.	30° 29.2′ N 122° 24.8′ E	**Fl.(3)W.** period 10s	95 **29**	10	White round concrete tower; 46.	
18892.8 *P 3718.833*	Shizi Zui.	30° 28.8′ N 122° 22.2′ E	**Fl.(2)W.** period 8s fl. 0.5s, ec. 1s fl. 0.5s, ec. 6s	30 **9**	3	White round concrete column, red bands; 26.	
18893 *P 3718.8*	Laitou Zhi.	30° 27.8′ N 122° 14.5′ E	**Fl.(3)W.** period 12s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 8.5s	121 **37**	10	White conical concrete structure; 31.	
	RACON		**M(– –)**				(3cm).
18896 *P 3734*	**Xiasanxing Shan.**	30° 26.1′ N 122° 31.7′ E	**Fl.(3)W.** period 20s	259 **79**	**22**	White hexagonal concrete structure; 87.	Visible 112°-039°. Reserve light range 8M.
	RACON		**M(– –)**				(3cm).
18900 *P 3728*	Fengchao Yan.	30° 22.4′ N 122° 41.2′ E	**Fl.W.** period 10s fl. 0.5s, ec. 9.5s	86 **26**	10	White round concrete mast; 36.	**AIS** (MMSI No 999412381).
	RACON		**N(– •)**				(3cm).

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			CHINA				
18902 *P 3730*	Langgang Shan.	30° 26.2′ N 122° 56.0′ E	**Fl.(4)W.** period 10s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 5s	350 **107**	10	White round concrete tower; 48.	
	RACON		**Q(– – • –)**				(3cm).
18902.5 *P 3719.8*	**Liangxiongdi Yu.**	30° 10.2′ N 122° 56.7′ E	**Fl.W.** period 2s	105 **32**	**15**	White concrete column; 46.	**AIS** (MMSI No 999412382).
	RACON		**M(– –)**				(3cm).
18903 *P 3724*	Dongfu Shan, NW.	30° 08.6′ N 122° 45.2′ E	**Fl.W.** period 4s fl. 0.5s, ec. 3.5s	69 **21**	7	White round concrete column; 33.	
18903.1 *P 3723*	Xifu Shan, S.	30° 10.3′ N 122° 42.9′ E	**Fl.(4)W.** period 12s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 7s	39 **12**	4	White round concrete column, black bands; 33.	
18903.3 *P 3721.3*	Yezi Shan.	30° 10.2′ N 122° 40.1′ E	**Fl.W.** period 2s fl. 0.5s, ec. 1.5s	46 **14**	7	White concrete column; 23.	
18903.5 *P 3720.7*	Huangxing Dao, N.	30° 12.8′ N 122° 38.8′ E	**Fl.(2)W.** period 4s fl. 0.5s, ec. 1s fl. 0.5s, ec. 2s	36 **11**	4	White concrete tower; 23.	
18903.7 *P 3720.3*	Xiaoqing Shan.	30° 12.2′ N 122° 37.2′ E	**Fl.R.** period 4s	43 **13**	4	Red and white round concrete column; 33.	
18904 *P 3720*	**Xiaoguishan.**	30° 12.7′ N 122° 35.5′ E	**Fl.(2)W.** period 10s	246 **75**	**18**	Black round tower; 36.	Visible 039°-096°, 114°-296° and 300°-019°. Reserve light F.W. 8M.
	RACON		**O(– – –)**				(3cm).
18904.5 *P 3719.9*	Dameimei Jiao.	30° 13.7′ N 122° 33.2′ E	**Fl.(2)R.** period 6s	98 **30**	4	Red and white round concrete column; 33.	
18905 *P 3719.88*	Guang Jiao.	30° 13.7′ N 122° 32.0′ E	**Fl.(2)W.** period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	26 **8**	7	White round concrete tower; 33.	
18906 *P 3716.753*	Yaque Jiao.	30° 20.4′ N 121° 59.2′ E	**Fl.W.** period 6s fl. 0.5s, ec. 5.5s	26 **8**	4	White round column; 20.	
18908 *P 3716.8*	**Yuxingnao.**	30° 20.8′ N 121° 51.6′ E	**Fl.(2)W.** period 20s	89 **27**	**15**	Black round tower; 33.	Reserve light F.W. 8M. **AIS** (MMSI No 999412383). **Horn:** 2 bl. ev. 90s.
	RACON		**O(– – –)**				(3cm).
18908.5 *P 3716.751*	Daxiapa Jiao.	30° 21.7′ N 122° 03.6′ E	**Fl.W.** period 2s fl. 0.5s, ec. 1.5s	49 **15**	4	White concrete cone; 23.	
18908.6 *P 3716.748*	Daopeng Jiao.	30° 19.8′ N 122° 13.7′ E	**Fl.W.** period 3s fl. 0.5s, ec. 2.5s	89 **27**	4	White round concrete column; 23.	
18908.7 *P 3716.66*	Donghuo Shan.	30° 15.0′ N 121° 43.3′ E	**Fl.(2)W.** period 6s	180 **55**	7	White concrete column, red band; 26.	
18908.9 *P 3716.7*	Huagu Shan.	30° 18.7′ N 122° 01.4′ E	**Fl.(2)W.** period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	118 **36**	3	White hexagonal concrete column; 33.	
	RACON		**Y(– • – –)**				(3cm).

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			CHINA				
18909 *P 3716.71*	Xiaochang Shan.	30° 10.0′ N 122° 06.9′ E	**Fl.W.** period 3s fl. 0.5s, ec. 2.5s	85 **26**	9	White round concrete column; 36.	
18909.1 *P 3716.727*	Ming Jiao.Hanlinshi, E. Rock.	30° 12.5′ N 122° 11.0′ E	**Fl.(3)W.** period 10s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 6.5s	52 **16**	7	White hexagonal concrete column; 52.	
	RACON		**G(– – •)**				(3cm).
18909.3 *P 3716.715*	Laitou Jiao.	30° 09.1′ N 122° 07.3′ E	**Fl.(3)W.** period 10s	39 **12**	7	White hexagonal concrete column; 33.	
	RACON		**K(– • –)**				(3cm).
18909.5 *P 3716.723*	Liangmao Shan.	30° 07.2′ N 122° 09.5′ E	**Fl.(2)W.** period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	49 **15**	9	White concrete column; 46.	
18909.6 *P 3716.722*	Zongzi Shan.	30° 07.5′ N 122° 10.2′ E	**Fl.W.** period 3s fl. 0.5s, ec. 2.5s	85 **26**	7	White concrete tower; 33.	
	RACON		**B(– • • •)**				(3cm).
18909.7 *P 3716.736*	Yeya Jiao.	30° 11.5′ N 122° 15.1′ E	**Fl.W.** period 2s fl. 0.5s, ec. 1.5s	46 **14**	3	White metal framework beacon; 26.	
18909.75 *P 3716.737*	Chang Jiao.	30° 13.0′ N 122° 17.1′ E	**Fl.(3)W.** period 10s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 6.5s	56 **17**	4	White round concrete column; 26.	
18909.77 *P 3719.75*	Nanmuzhuang Dao, S.	30° 13.8′ N 122° 25.8′ E	**Fl.(2)W.** period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	36 **11**	7	White concrete tower, red bands; 30.	
18909.85 *P 3716.78*	Huang Jiao.	30° 21.6′ N 121° 55.8′ E	**Fl.(3)W.** period 8s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4.5s	30 **9**	4	White round framework beacon; 23.	
18909.9 *P 3716.79*	Xiaozhi Shan.	30° 20.6′ N 121° 53.3′ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	46 **14**	4	White round concrete column; 26.	
18910 *P 3716.435*	Xiaocaihua.	30° 07.1′ N 121° 52.1′ E	**Fl.(2)W.** period 4s fl. 0.5s, ec. 1s fl. 0.5s, ec. 2s	75 **23**	4	White concrete column; 23.	
	RACON		**N(– •)**				(3cm).
18912 *P 3716.4*	**Taipingshan.**	30° 05.0′ N 121° 49.3′ E	**Fl.(3)W.** period 10s	285 **87**	**16**	White round tower; 30.	Reserve light range 8M.
18913 *P 3716.39*	Daochu Shan.	30° 03.0′ N 121° 49.9′ E	**Fl.(2)R.** period 6s	49 **15**	4	Red and white round concrete pillar; 23.	
18914 *P 3716.46*	Daxiao Huanggan.	30° 00.0′ N 121° 55.8′ E	**Fl.(2)W.** period 4s fl. 0.5s, ec. 1s fl. 0.5s, ec. 2s	49 **15**	10	White concrete column; 39.	
18916 *P 3716*	**Qili Zhi.**	30° 00.0′ N 121° 45.6′ E	**Fl.W.** period 5s	171 **52**	**18**	White octagonal tower; 82.	Reserve light range 5M. **Horn:** 4 bl. ev. 90s (bl. 5s, si. 5s, bl. 5s, si. 5s, bl. 5s, si. 5s, bl. 5s, si. 55s).
	RACON		**B(– • • •)**				(3cm).

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			CHINA				
18916.5 *P 3714.8*	Waiwanshan Zui.	29° 58.4′ N 121° 50.9′ E	**Fl.W.** period 4s fl. 0.5s, ec. 3.5s	69 **21**	7	White round concrete column; 43.	
18917 *P 3714.82*	Shuang Jiao.	29° 58.0′ N 121° 51.6′ E	**V.Q.(6)+L.Fl.W.** period 10s	26 **8**	4	S. CARDINAL YB, beacon, topmark; 20.	
18919 *P 3715.6*	Ningbo Gang.	29° 59.0′ N 121° 48.3′ E	**Fl.(2)W.** period 5s	52 **16**	10	ISOLATED DANGER BRB, beacon, topmark; 39.	**AIS** (MMSI No 999412378).
18919.5 *P 3716.304*	-No 123.	30° 03.7′ N 121° 48.3′ E	**F.G.**			Two green arrows points up, white square daymark.	Two way sailing. **AIS** (MMSI No 999412398).
	-RACON		**Q(– – • –)**				(3cm).
18920 *P 3715.4*	Dahuangmang Dao.	29° 58.5′ N 121° 48.5′ E	**Fl.(2)W.** period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	262 **80**	9	White hexagonal concrete column; 30.	
18922 *P 3714.6*	Zhongzhu Shan.	29° 58.3′ N 121° 47.7′ E	**Fl.(3)W.** period 10s fl. 0.8s, ec. 1.2s fl. 0.8s, ec. 1.2s fl. 0.8s, ec. 5.2s	154 **47**	10	White round concrete column; 39.	
18928 *P 3715*	Changtiaozui.	29° 58.5′ N 121° 45.9′ E	**Fl.(4)W.** period 12s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	59 **18**	10	White hexagonal concrete structure, red stripe; 52.	
	RACON		**Y(– • – –)**				(3cm).
18929 *P 3715.3*	-N. breakwater, head.	29° 58.7′ N 121° 45.4′ E	**Q.G.**	33 **10**	7	Green metal column; 36.	**AIS** (MMSI No 999412377).
18930 *F 3715.2*	-Yong Jiang Kou Range, front.	29° 58.4′ N 121° 44.2′ E	**F.R.**	125 **38**	5	Iron framework structure, neon red square and round daymark; 64.	
18930.1 *P 3715.21*	--Rear, 435 meters 260°30′ from front.	29° 58.4′ N 121° 43.9′ E	**F.R.**	167 **51**	5	Square metal framework tower; 151.	
18930.3 *P 3714.965*	Zhenhai Ferry.	29° 57.0′ N 121° 43.1′ E	**Fl.W.** period 10s	39 **12**	10	Red and white round tower; 43.	
18932 *P 3714*	**Luojiashan**.	29° 58.5′ N 122° 26.9′ E	**Fl.(3)W.R.** period 9s	131 **40**	W. **15** R. 8	White round tower, red bands; 23.	W. 075°-088°, R.-203°, W.-256°, R.-272°, W.-343°. Reserve light F.W. 8M.
18936 *P 3712*	**Dongtingshan**, summit.	29° 51.9′ N 122° 35.6′ E	**Fl.W.** period 10s fl. 0.5s, ec. 9.5s	180 **55**	**20**	White round tower; 26.	
	RACON		**Y(– • – –)**				
18937 *P 3714.143*	Fulimen Jiao.	29° 50.6′ N 122° 20.7′ E	**Fl.R.** period 4s fl. 0.5s, ec. 3.5s	33 **10**	7	White concrete column; 26.	
18938 *P 3714.008*	Qiji Shan.	30° 03.4′ N 122° 19.0′ E	**Fl.(3)W.** period 10s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 6.5s	26 **8**	4	White round concrete tower; 23.	
18940 *P 3714.14*	**Taohua Dao.**	29° 46.3′ N 122° 18.6′ E	**Fl.(3)W.** period 12s	361 **110**	**15**	White round concrete tower, black bands; 66.	Reserve light range 7M.
	RACON		**Z(– – • •)**		9		(3cm).
18944 *P 3714.16*	Xiaoshuang Shan.	29° 47.8′ N 122° 14.4′ E	**Fl.(2)W.** period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	55 **17**	10	White octagonal concrete tower, red stripes; 49.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			CHINA				
18948 *P 3714.18*	Xialan Shan.	29° 48.7′ N 122° 14.3′ E	**Fl.W.** period 4s fl. 0.5s, ec. 3.5s	65 **20**	10	White octagonal concrete structure, black stripes; 49.	
18952 *P 3714.2*	Shangliuwangzhong Dao.	29° 50.0′ N 122° 12.3′ E	**Fl.W.** period 6s fl. 0.5s, ec. 5.5s	39 **12**	9	White concrete tower; 33.	
	RACON		**T(–)**				(3cm).
18953 *P 3714.206*	Dengbu Dao.	29° 51.9′ N 122° 16.7′ E	**Fl.(2)W.** period 5s	20 **6**	4	ISOLATED DANGER BRB, beacon, topmark; 23.	
18953.5 *P 3714.21*	Diandeng Shan.	29° 52.5′ N 122° 13.8′ E	**Fl.(2)W.** period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	105 **32**	10	White round concrete structure; 49.	
	RACON		**B(– • • •)**				(3cm).
18954 *P 3714.148*	**Putuo Shan.**	29° 59.1′ N 122° 22.0′ E	**Fl.W.** period 4s fl. 0.5s, ec. 3.5s	243 **74**	**18**	Yellow round concrete tower; 59.	
18955 *P 3714.02*	Shuilaoshuweiba.	29° 55.1′ N 122° 17.8′ E	**Fl.(2)W.** period 5s	56 **17**	7	ISOLATED DANGER BRB, tower, topmark; 52.	
	RACON		**M(– –)**				(3cm).
18955.5 *P 3714.015*	Gangpan Jiao.	29° 57.9′ N 122° 22.2′ E	**Fl.(2)R.** period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	52 **16**	4	Red concrete column; 23.	
18956 *P 3714.22*	**Yangxiaomao Dao.**	29° 53.9′ N 122° 09.1′ E	**Fl.(2)W.** period 10s fl. 0.5s, ec. 1s fl. 0.5s, ec. 8s	160 **49**	**15**	White hexagonal concrete column; 36.	Reserve light range 5M.
	RACON		**C(– • – •)**				(3cm).
18957 *P 3714.245*	Aoshan Oil Pier.	29° 57.2′ N 122° 07.8′ E	**Fl.R.** period 2s fl. 0.5s, ec. 1.5s	43 **13**	4	Red fiberglass tower, white bands; 26.	
18958 *P 3714.228*	Shawan Zui.	29° 54.0′ N 122° 05.6′ E	**Fl.(2)W.** period 6s	36 **11**	4	White column; 23.	
18960 *P 3714.24*	Zhairuo Shan.	29° 56.6′ N 122° 05.6′ E	**Fl.W.** period 4s fl. 0.5s, ec. 3.5s	59 **18**	7	White round masonry tower; 23.	
18964 *P 3714.26*	Loutou Jiao.	29° 55.9′ N 122° 02.1′ E	**Fl.(3)W.** period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	72 **22**	10	White hexagonal concrete structure; 26.	Visible 260°-138°.
18965 *P 3714.254*	Heshang Shan.	29° 58.3′ N 122° 04.3′ E	**Fl.G.** period 4s	30 **9**	5	Hexagonal concrete pillar; 26.	
18966 *P 3716.48*	Banyang Jiao.	30° 01.1′ N 121° 57.8′ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	62 **19**	10	White hexagonal concrete structure; 26.	
	RACON		**X(– • • –)**				(3cm).
18968 *P 3714.28*	Tuni Zui.	29° 57.4′ N 121° 57.9′ E	**Fl.(3)W.** period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 2.5s	46 **14**	7	White concrete cone; 26.	
18972 *P 3714.3*	Huangniu Jiao.	29° 57.9′ N 121° 54.0′ E	**Fl.W.** period 6s fl. 0.5s, ec. 5.5s	59 **18**	9	White hexagonal concrete structure; 49.	
	RACON		**G(– – •)**				(3cm).

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			CHINA				
18973 *P 3714.32*	-Xiehe Oil Terminal, No 1.	29° 56.1′ N 121° 54.5′ E	**Q.R.**	46 **14**	7	PORT (A) R, beacon, topmark; 23.	
	-RACON		**Q(– – • –)**				(3cm).
18973.1 *P 3714.33*	--No 2.	29° 56.1′ N 121° 54.2′ E	**Mo.(C)Y.** period 12s	46 **14**	5	SPECIAL Y, beacon, "X" topmark; 23.	
18973.3 *P 3714.34*	--No 3.	29° 55.7′ N 121° 54.4′ E	**Fl.R.** period 4s	46 **14**	5	PORT (A) R, beacon, topmark; 23.	
18976 *P 3714.266*	Daxie Dao.	29° 55.2′ N 122° 00.0′ E	**Q.G.**	33 **10**	7	Green beacon, triangular daymark point up; 20.	
	RACON		**K(– • –)**				(3cm).
18976.1 *P 3692.28*	Shanjiaotou Dao.	29° 45.8′ N 122° 00.5′ E	**Fl.W.** period 2s	39 **12**	4	White hexagonal concrete column; 33.	
18977 *P 3714.185-1*	Huangjiao Tou.	29° 43.5′ N 122° 13.5′ E	**Fl.R.** period 4s	39 **12**	4	Red and white concrete column; 23.	
	RACON		**Y(– • – –)**				(3cm).
18978 *P 3692*	Shangshuangshi.	29° 44.1′ N 122° 02.6′ E	**Fl.R.** period 4s fl. 0.4s, ec. 3.6s	89 **27**	6	Red round concrete column; 36.	
18979 *P 3691.8*	Quewei Jiao.	29° 42.5′ N 122° 02.5′ E	**Fl.(2)W.** period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	56 **17**	7	White concrete tower; 30.	
	RACON		**G(– – •)**				(3cm).
18979.05 *P 3691.7*	Wenzhou Zhi.	29° 42.7′ N 122° 00.3′ E	**Fl.W.** period 2s fl. 0.5s, ec. 1.5s	59 **18**	4	White hexagonal concrete column; 33.	
18979.1 *P 3691*	Xiaoyezhu Jiao.	29° 34.6′ N 122° 01.1′ E	**Fl.(3)W.** period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 2.5s	46 **14**	6	Red round concrete tower; 49.	
	RACON		**Y(– • – –)**				(3cm).
18979.15 *P 3690.25*	Si Jiao.	29° 33.4′ N 122° 04.1′ E	**Fl.W.** period 2s fl. 0.5s, ec. 1.5s	49 **15**	4	White concrete column, black bands; 23.	
18980 *P 3689*	**Nanjiu Shan.**	29° 26.0′ N 122° 13.2′ E	**Fl.(2)W.** period 10s	174 **53**	**16**	White concrete column; 33.	
18980.5 *P 3685*	Aiqi Shan.	29° 25.4′ N 122° 10.3′ E	**Fl.(3)W.** period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	167 **51**	10	White conical concrete structure; 30.	
18981 *P 3684*	Jiushan Liedao.	29° 16.3′ N 122° 08.1′ E	**Fl.(2)W.** period 5s	49 **15**	10	ISOLATED DANGER BRB, beacon, topmark; 56.	**AIS** (MMSI No 999412372).
	RACON		**N(– •)**				(3cm).
18981.1 *P 3683.45*	Dongguayan Zui.	29° 09.3′ N 122° 00.6′ E	**Fl.W.** period 3s fl. 0.5s, ec. 2.5s	26 **8**	4	White concrete column; 23.	
18981.3 *P 3683.48*	-Niluo Yu.	29° 08.0′ N 122° 03.0′ E	**Fl.(4)W.** period 6s fl. 0.4s, ec. 0.6s fl. 0.4s, ec. 0.6s fl. 0.4s, ec. 0.6s fl. 0.4s, ec. 2.6s	69 **21**	7	White concrete column, black bands; 33.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			CHINA				
18981.5 *P 3682.8*	Jiaowei Dao.	29° 11.7′ N 121° 59.5′ E	**Fl.(2)W.** period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	108 **33**	10	White concrete column, red bands; 36.	
	RACON		**M(– –)**				(3cm).
18981.6 *P 3682.285*	Guangtou Jiao.	29° 05.4′ N 121° 52.3′ E	**Fl.W.** period 4s fl. 0.5s, ec. 3.5s	20 **6**	4	White concrete column, red bands; 23.	
18982 *P 3682*	**Yu Shan.**	28° 53.0′ N 122° 15.6′ E	**Fl.(2)W.** period 20s	338 **103**	**25**	White round tower, red bands; 52.	Reserve light range 15M.
	RACON		**O(– – –)**				(3cm).
18982.5 *P 3680.25*	Taizhou Wan, Yang Jiao.	28° 44.4′ N 121° 44.0′ E	**Q.(3)W.** period 10s	36 **11**	10	E. CARDINAL BYB, beacon, topmark; 43.	
	RACON		**C(– • – •)**				(3cm).
18983 *P 3681*	**Dongji Dao.**	28° 43.4′ N 121° 56.2′ E	**Fl.(2)W.** period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	299 **91**	**16**	White round stone masonry tower; 33.	
	RACON		**Y(– • – –)**				(3cm).
18984 *P 3675.5*	Xiaojiaotou.	28° 28.2′ N 121° 54.5′ E	**Fl.(2)W.** period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	75 **23**	10	White hexagonal concrete tower; 39.	
18992 *P 3676*	Taizhou Gangpan Dao.	28° 28.6′ N 121° 52.5′ E	**Fl.R.** period 3s fl. 0.5s, ec. 2.5s	24 **7**	3	White conical stone tower; 30.	
18996 *P 3674*	Zhu Yu, 1 mile W. of Xiadachen Dao.	28° 26.0′ N 121° 51.1′ E	**Fl.(3)W.** period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	207 **63**	10	Round concrete column; 33.	
	RACON		**O(– – –)**				(3cm).
19000 *P 3670*	**Luo Yu.**	28° 16.2′ N 121° 43.9′ E	**Fl.W.** period 3s	259 **79**	**16**	White hexagonal stone masonry column, red stripes; 30.	Reserve light range 5M.
	RACON		**B(– • • •)**				(3cm).
19004 *P 3669*	Yisuan Shan.	28° 12.9′ N 121° 39.7′ E	**Fl.(3)W.** period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	269 **82**	10	White hexagonal concrete tower; 33.	
19008 *P 3668*	Wailongyan.	28° 12.6′ N 121° 33.2′ E	**Fl.W.** period 4s fl. 0.5s, ec. 3.5s	59 **18**	10	White conical masonry structure; 43.	
	RACON		**G(– – •)**				(3cm).
19009 *P 3667.5*	Yuhuan Wind Tower, No 1 - No 3.	28° 08.7′ N 121° 35.3′ E	**Mo.(C)Y.** period 12s	43 **13**	7	SPECIAL Y, tower, "X" topmark; 16.	3 lights synchronized. **AIS** (MMSI No 999412429).
19010 *P 3667*	Dadongjing Dao.	28° 07.9′ N 121° 29.0′ E	**Fl.(2)W.** period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	269 **82**	10	White concrete column; 33.	**AIS** (MMSI No 999412404).
19012 *P 3665*	**Xialangdang Dao.**	28° 04.3′ N 121° 31.7′ E	**Fl.(3)W.** period 20s	194 **59**	**16**	White concrete structure, red stripes; 30.	
19016 *P 3664.5*	Qian Shan.	28° 03.3′ N 121° 24.1′ E	**Fl.W.** period 4s fl. 0.5s, ec. 3.5s	157 **48**	10	White concrete tower; 43.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			CHINA				
19018 *P 3660.8*	Beipanshan Yu.	28° 00.8′ N 121° 16.0′ E	**Fl.(2)W.** period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	200 **61**	7	White square masonry structure; 30.	
19020 *P 3662*	Wenzhou Jia.	27° 58.9′ N 120° 57.5′ E	**Fl.(2)W.** period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	66 **20**	10	White round concrete structure; 43.	
	RACON		**Q(– – • –)**				(3cm).
19024 *P 3663.22*	-Current guiding dam, No 1.	28° 01.6′ N 120° 41.0′ E	**Mo.(C)Y.** period 12s	20 **6**	5	SPECIAL Y, tower, "X" topmark; 30.	
19028 *P 3663.23*	-No 2.	28° 01.7′ N 120° 40.9′ E	**Mo.(C)Y.** period 12s	20 **6**	5	SPECIAL Y, tower, "X" topmark; 30.	
19032 *P 3663.24*	-No 3.	28° 01.8′ N 120° 40.7′ E	**Mo.(C)Y.** period 12s	20 **6**	5	SPECIAL Y, tower, "X" topmark; 30.	
19036 *P 3663.25*	-No 4.	28° 01.9′ N 120° 40.6′ E	**Mo.(C)Y.** period 12s	20 **6**	5	SPECIAL Y, tower, "X" topmark; 30.	
	OUJIANG BEI KOU:						
19048 *P 3662.4*	-Cangxia.	27° 59.9′ N 120° 51.0′ E	**Fl.(2)W.** period 6s fl. 0.3s, ec. 1s fl. 0.3s, ec. 4.4s	36 **11**	10	White concrete column; 26.	
19052 *P 3662.6*	-Longwantou.	27° 58.3′ N 120° 48.2′ E	**Fl.(4)W.** period 10s fl. 0.3s, ec. 1s fl. 0.3s, ec. 1s fl. 0.3s, ec. 1s fl. 0.3s, ec. 5.8s	43 **13**	8	White round concrete structure; 20.	
	-RACON		**Y(– • – –)**				(3cm).
19053 *P 3662*	-Laohu Yan Spur, N. beacon.	28° 01.8′ N 120° 44.1′ E	**Fl.(2)W.** period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	66 **20**	10	White round concrete structure; 43.	
	-RACON		**Q(– – • –)**				
19054 *P 3663*	--S. beacon.	28° 01.6′ N 120° 44.1′ E	**Mo.(P)Y.** period 15s	20 **6**	5	SPECIAL Y, beacon, "X" topmark; 30.	**AIS** (MMSI No 999412427).
19060 *P 3663.6*	-Shizi Jiao.	28° 01.7′ N 120° 38.5′ E	**Fl.W.** period 6s fl. 0.3s, ec. 5.7s	16 **5**	4	Gray four-sided concrete pyramid; 26.	
19064 *P 3663.5*	-Xiang.	28° 01.7′ N 120° 38.8′ E	**Fl.(2)W.** period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	49 **15**	4	Red round concrete structure; 26.	
19066 *P 3662.7*	Mati Shan.	28° 00.3′ N 120° 47.5′ E	**Fl.W.** period 3s fl. 0.3s, ec. 2.7s	39 **12**	7	White hexagonal concrete column, red bands; 36.	
19067 *P 3662.8*	Qidu Zui.	28° 01.4′ N 120° 44.6′ E	**Fl.(3)W.** period 10s	30 **9**	7	White concrete column; 33.	
19068 *P 3661*	Dong Tou.	27° 57.7′ N 121° 08.8′ E	**Fl.(2)W.** period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	128 **39**	7	White round concrete structure; 32.	
19070 *P 3661.2*	Jianzui Jiao.	28° 04.7′ N 121° 08.5′ E	**Fl.(2)W.** period 5s	43 **13**	7	ISOLATED DANGER BRB, beacon, topmark; 36.	
19072 *P 3661.5*	Huangda Zui.	27° 56.9′ N 121° 02.7′ E	**Fl.(2)W.** period 6s fl. 0.3s, ec. 1s fl. 0.3s, ec. 4.4s	46 **14**	7	White concrete tower; 39.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			CHINA				
19076 *P 3660.4*	**Yuan Yu.**	27° 55.9′ N 121° 13.4′ E	**Fl.(3)W.** period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	141 **43**	**16**	White round concrete column; 43.	
	RACON		**Y(– • – –)**				(3cm).
19080 *P 3660*	Tasanpang Shan.	27° 52.4′ N 121° 10.5′ E	**Fl.W.** period 4s fl. 0.4s, ec. 3.6s	39 **12**	7	White four-sided concrete pyramid; 13.	Fishing light.
19084 *P 3659*	**Hutou Yu.**	27° 50.1′ N 121° 14.9′ E	**Fl.(2)W.** period 6s fl. 0.8s, ec. 1s fl. 0.8s, ec. 3.4s	338 **103**	**16**	White four-sided concrete pyramid; 26.	Reserve light F.W. 10M. Fishing light.
19084.3 *P 3657.4*	Niubi Yu.	27° 47.3′ N 121° 07.8′ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	33 **10**	4	White concrete column, red bands; 26.	
19084.5 *P 3657.57*	Qicaobitou.	27° 46.9′ N 121° 04.2′ E	**Fl.(2)W.** period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	49 **15**	4	Metal framework beacon; 16.	
19085 *P 3648.6*	Lizhi Shan.	27° 41.1′ N 120° 55.1′ E	**Fl.(3)W.** period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	292 **89**	10	White round concrete structure, red bands; 30.	
	RACON		**M(– –)**				(3cm).
19085.3 *P 3656*	Tie Jiao.	27° 40.3′ N 121° 02.3′ E	**Fl.(3)W.** period 10s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 6.5s	92 **28**	7	White concrete column; 26.	
19085.5 *P 3648.8*	Beilong Shan.	27° 38.9′ N 120° 58.0′ E	**Fl.W.** period 6s fl. 0.5s, ec. 5.5s	121 **37**	7	White concrete tower; 33.	
19086 *P 3650*	**Beijishan Liedao.**	27° 37.6′ N 121° 12.3′ E	**Fl.(3)W.** period 20s	443 **135**	**25**	Red conical concrete structure; 66.	Reserve light range 15M.
	RACON		**X(– • • –)**				(3cm).
19086.3 *P 3649.3*	Shangma'an Dao.	27° 27.1′ N 120° 57.9′ E	**Fl.(3)W.** period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	302 **92**	10	White round stone column, black bands; 33.	
	RACON		**Z(– – • •)**				(3cm).
19086.5 *P 3649*	**Nanji Liedao.**	27° 25.3′ N 121° 04.0′ E	**Fl.(2)W.** period 12s	203 **62**	**18**	White round concrete tower; 39.	Reserve light range 5M.
19087 *P 3648*	**Xitai Shan.**	27° 00.5′ N 120° 41.7′ E	**Fl.W.** period 4s	469 **143**	**25**	White hexagonal concrete structure; 79.	Reserve light range 15M. **AIS** (MMSI No 004132707).
	RACON		**K(– • –)**				(3cm).
19088 *P 3643.01*	Fuyao Liedao.	26° 56.0′ N 120° 19.3′ E	**Fl.(2)W.** period 6s	75 **23**	4	White concrete pillar, red bands; 26.	
19088.2 *P 3643.02*	Yuanyangdao Jiao.	26° 57.8′ N 120° 22.3′ E	**Fl.W.** period 4s	82 **25**	4	White round concrete tower; 26.	
19088.3 *P 3643.03*	Guanyin Jiao Mazu Pier.	26° 57.1′ N 120° 18.9′ E	**Fl.W.** period 4s	59 **18**	4	White concrete pillar, red bands; 26.	
19090 *P 3644*	**Tung-yin Tao.**	26° 21.9′ N 120° 30.6′ E	**Fl.(2)W.** period 14s	321 **98**	**25**	White round tower; 47.	Visible 270°-060°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			CHINA				
19090.5 *P 3642*	Liu'er.	26° 34.7′ N 120° 06.2′ E	**Fl.(3)W.** period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	92 **28**	10	White hexagonal concrete structure; 33.	Reserve light Fl.W. 5s 7M.
	RACON		**Q(– – • –)**				(3cm).
19090.7 *P 3642.3*	Changcao Yu.	26° 36.7′ N 120° 06.5′ E	**Fl.W.** period 4s fl. 0.5s, ec. 3.5s	89 **27**	4	White square concrete tower; 26.	
19090.9 *P 3642.4*	Lotou Wei.	26° 38.9′ N 120° 07.9′ E	**Fl.(2)W.** period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	62 **19**	4	White square concrete tower, red bands; 26.	
19091 *P 3641.95*	**Kuishan Dao.**	26° 29.3′ N 120° 08.0′ E	**Fl.W.** period 4s	249 **76**	**15**	White concrete column; 39.	
	RACON		**Z(– – • •)**				(3cm).
19091.2 *P 3641.1*	Heiyan Dao.	26° 23.1′ N 120° 05.2′ E	**Fl.(3)W.** period 10s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 6.5s	151 **46**	10	White hexagonal concrete tower, red bands; 43.	
	RACON		**C(– • – •)**				(3cm).
19091.28 *P 3641.88*	Erjian Wan.	26° 29.7′ N 120° 01.4′ E	**Fl.(2)W.** period 6s	62 **19**	4	White hexagonal concrete tower, black bands; 26.	
19091.3 *P 3641.93*	Ma'anzi Dao.	26° 31.8′ N 120° 01.1′ E	**Fl.W.** period 6s fl. 0.5s, ec. 5.5s	49 **15**	4	White square concrete tower; 26.	
19091.35 *P 3641.935*	Wucao Yu.	26° 32.1′ N 120° 03.9′ E	**Fl.(2)W.** period 4s	46 **14**	4	White hexagonal concrete tower, red bands; 23.	
19091.38 *P 3641.94*	Maci Dao.	26° 32.0′ N 120° 07.8′ E	**Fl.(2)W.** period 6s	102 **31**	4	White hexagonal concrete tower, black bands; 23.	
19091.4 *P 3641.85*	Xiaodong Yu.	26° 29.5′ N 119° 59.4′ E	**Fl.(3)W.** period 10s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 6.5s	75 **23**	4	White concrete column, red bands; 26.	
19091.45 *P 3641.92*	Xiaoxiyang Dao.	26° 32.2′ N 119° 59.9′ E	**Fl.(3)W.** period 10s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 6.5s	39 **12**	4	White concrete column, black bands; 26.	
19091.47 *P 3641.91*	Qingtan Jiao.	26° 36.2′ N 120° 01.0′ E	**Fl.(2)W.** period 6s	23 **7**	4	White hexagonal concrete tower, black bands; 23.	
19091.5 *P 3641.2*	**Yang Yu.**	26° 22.2′ N 119° 58.3′ E	**Fl.(2)W.** period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	331 **101**	**16**	White four-sided concrete pyramid; 33.	Reserve light range 7M.
	RACON		**Y(– • – –)**				(3cm).
19091.51 *P 3641.35*	Nanwei Yu.	26° 22.8′ N 119° 54.5′ E	**Fl.W.** period 4s	59 **18**	4	White hexagonal concrete tower, black bands; 23.	
19091.52 *P 3641.38*	Dongluo Dao, N.	26° 25.4′ N 119° 54.9′ E	**Fl.(3)W.** period 10s	190 **58**	4	White hexagonal concrete tower, red bands; 23.	
19091.53 *P 3641*	Dongwu Jiao.	26° 18.4′ N 119° 53.9′ E	**Fl.(3)W.** period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	39 **12**	10	White hexagonal concrete structure; 43.	
19091.55 *P 3641.05*	Donggu Yu.	26° 17.8′ N 119° 54.2′ E	**Fl.W.** period 4s	36 **11**	7	White round concrete tower, red bands; 36.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			CHINA				
19091.59 *P 3641.598*	Donggui Yu.	26° 29.8′ N 119° 48.4′ E	**Fl.(3)W.** period 6s	43 **13**	4	White hexagonal concrete column, red bands; 23.	
19091.6 *P 3641.625*	Huwei Jiao.	26° 33.2′ N 119° 47.7′ E	**Fl.(2)W.** period 6s	46 **14**	10	White hexagonal concrete tower, red bands; 33.	
19091.7 *P 3641.63*	Jigong Shan, W.	26° 34.2′ N 119° 47.8′ E	**Fl.W.** period 4s	30 **9**	4	White round concrete tower; 23.	
19091.72 *P 3641.67*	Qingshan Dao.	26° 37.4′ N 119° 48.8′ E	**Fl.W.** period 4s	66 **20**	7	White hexagonal concrete tower, red bands; 33.	
19091.75 *P 3641.635*	Jiwei Jiao.	26° 34.5′ N 119° 48.8′ E	**Fl.(3)W.** period 10s	36 **11**	10	White hexagonal concrete tower, red bands; 33.	
	MINJIANG KOU:						
19092 *P 3634.8*	-Rizhuang Jiao.	26° 04.5′ N 119° 43.4′ E	**Fl.(2)W.** period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	42 **13**	8	White concrete column; 59.	
	-RACON		**K(– • –)**				(3cm).
19096 *P 3635*	-Baiyun Shan Range, front.	26° 05.4′ N 119° 38.3′ E	**Fl.W.** period 1.5s fl. 0.5s, ec. 1s	164 **50**	14	White concrete beacon, red stripes; 72.	Visible 263°45′-267°15′.
	-RACON		**O(– – –)**		**15**		(3cm).
19100 *P 3635.1*	--Rear, 1289 meters 265°30′ from front.	26° 05.3′ N 119° 37.6′ E	**Iso.W.** period 4s	308 **94**	14	White concrete structure, red stripes; 72.	Visible 263°45′-267°15′.
19104 *P 3635.2*	Hujiang Dao.	26° 07.3′ N 119° 38.5′ E	**Fl.(3)W.** period 10s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 6.5s	85 **26**	7	White round brick structure; 23.	
19110 *P 3635.68*	Ma Jiao.	26° 02.8′ N 119° 36.5′ E	**Fl.W.** period 4s	26 **8**	4	Black concrete column; 30.	
19110.2 *P 3635.69*	Jiuping Jiao.	26° 02.9′ N 119° 35.9′ E	**Fl.(2)R.** period 6s	18 **6**	4	PORT (A) R, beacon, topmark; 26.	
19112 *P 3635.4*	Fudou Shan Range, common front.	26° 08.0′ N 119° 38.3′ E	**Iso.W.** period 2s	49 **15**	10	White concrete tower, red stripes; 23.	
	RACON		**M(– –)**				(3cm).
19114 *P 3635.42*	-Rear, 090°50′ from common front.	26° 08.0′ N 119° 39.5′ E	**Iso.W.** period 6s	138 **42**	10	White concrete tower, red stripes; 30.	
19114.1 *P 3635.417*	Culu Dao.	26° 08.2′ N 119° 39.1′ E	**Fl.(3)W.** period 10s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 6.5s	24 **7**	4	White column, black bands; 26.	
19114.25 *P 3635.415*	Huzhou.	26° 08.6′ N 119° 39.4′ E	**Fl.W.** period 4s fl. 0.5s, ec. 3.5s	26 **8**	4	White column, black bands; 33.	
19116 *P 3635.41*	-Rear, 1960 meters 309°23′ from common front.	26° 08.6′ N 119° 37.5′ E	**Iso.W.** period 6s	125 **38**	10	White concrete tower, red stripes; 49.	
19120 *P 3635.45*	-Jinpai Men.	26° 08.1′ N 119° 35.7′ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	36 **11**	6	White pyramidal masonry structure; 33.	**AIS** (MMSI No 999412514).
19120.4 *P 3635.44*	Jinpai Shan, N.	26° 07.9′ N 119° 35.5′ E	**Fl.(3)W.** period 10s	27 **8**	4	White concrete column, black bands; 30.	
19122 *P 3635.65*	Dalu Jiao.	26° 05.5′ N 119° 32.3′ E	**Fl.(2)W.** period 5s	23 **7**	3	ISOLATED DANGER BRB, beacon, topmark; 43.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			CHINA				
19122.1 *P 3635.725*	Yanguan.	26° 03.1′ N 119° 30.6′ E	**Fl.(2)W.** period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	33 **10**	4	White concrete column, red bands; 26.	
19122.15 *P 3635.673*	Fuzhou Navigational Mark.	26° 06.9′ N 119° 32.7′ E	**Fl.W.** period 4s	36 **11**	3	White metal pile, red bands; 20.	
19122.2 *P 3635.723*	Shimen, W.	26° 02.7′ N 119° 30.5′ E	**Fl.(2)W.** period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	33 **10**	4	White concrete column, red bands; 26.	
19122.25 *P 3635.73*	Niuwei Shan.	26° 02.1′ N 119° 30.5′ E	**Fl.W.** period 4s fl. 0.5s, ec. 3.5s	23 **7**	6	White concrete column; 46.	
19122.3 *P 3635.731*	Songmen.	26° 02.0′ N 119° 30.2′ E	**Fl.(3)W.** period 10s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 6.5s	33 **10**	4	White concrete column, red bands; 26.	
19123.5 *P 3635.745*	Huaneng Fuzhou Electric Works, No 2.	25° 59.7′ N 119° 28.8′ E	**Mo.(C)Y.** period 12s	23 **7**	3	SPECIAL Y, beacon, topmark; 20.	
19124 *P 3628*	Wu-ch'iu Hsu.	24° 59.5′ N 119° 27.2′ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	285 **87**	11	Black round tower; 62.	
19128 *P 3634.4*	-Qixing Jiao.	26° 04.8′ N 119° 49.7′ E	**Fl.W.** period 6s fl. 0.5s, ec. 5.5s	39 **12**	10	White conical concrete tower; 52.	
	-RACON		**X(– • • –)**				(3cm).
19132 *P 3634*	**Tungchu Tao.**	25° 58.0′ N 119° 59.2′ E	**Fl.(1+2)W.** period 20s	256 **78**	**16**	White round tower; 62.	Visible 150°-000°. **Gun.**
19132.5 *P 3634.2*	Bozhou Dao.	25° 58.6′ N 119° 43.1′ E	**Fl.(3)W.** period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	66 **20**	10	White square concrete structure; 36.	
19133 *P 3633.3*	Li Yu.	25° 45.7′ N 119° 48.3′ E	**Fl.(3)W.** period 10s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 6.5s	82 **25**	7	White concrete column, red bands; 36.	
	RACON		**O(– – –)**				(3cm).
19133.2 *P 3633.9*	Shuangpi.	25° 46.9′ N 119° 39.5′ E	**Fl.(2)W.** period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	95 **29**	10	White concrete column; 39.	
	RACON		**G(– – •)**				(3cm).
19133.4 *P 3633.8*	Songxia Gang, Xiluo.	25° 45.3′ N 119° 38.9′ E	**Fl.R.** period 4s fl. 0.5s, ec. 3.5s	174 **53**	2	White concrete column; 39.	Channel marked by articulated lights and buoys.
19133.5 *P 3633.87*	Zhutou Jiao.	25° 45.1′ N 119° 39.5′ E	**V.Q.(9)W.** period 10s	23 **7**	4	W. CARDINAL YBY, beacon, topmark; 30.	
19133.6 *P 3633.4*	-Gu Yu.	25° 40.7′ N 119° 37.4′ E	**Fl.(2)W.** period 4s fl. 0.5s, ec. 1s fl. 0.5s, ec. 2s	108 **33**	7	White square concrete tower; 43.	**AIS** (MMSI No 999412571).
	-RACON		**K(– • –)**				(3cm).

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			CHINA				
19134 *P 3632.5*	**Dongxiang Dao.**	25° 36.2′ N 119° 54.1′ E	**Fl.(3)W.** period 10s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 6.5s	157 **48**	**16**	Black round concrete tower, white bands; 56.	Reserve light range 7M.
	RACON		**K(– • –)**				(3cm).
19135 *P 3632.3*	Xiaosha Yu.	25° 28.5′ N 119° 52.3′ E	**Fl.W.** period 4s fl. 0.5s, ec. 3.5s	98 **30**	4	White square concrete tower, black bands; 26.	
19136 *P 3632*	**Niushan Dao.**	25° 26.1′ N 119° 56.2′ E	**Fl.(2)W.** period 12s	295 **90**	**24**	White octagonal stone masonry tower; 79.	Reserve light range 15M.
	RACON		**Z(– – • •)**				(3cm).
19136.4 *P 3633.15*	Bai Yu.	25° 19.0′ N 119° 33.5′ E	**Fl.(2)W.** period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	121 **37**	10	White hexagonal concrete tower; 36.	**AIS** (MMSI No 999412532).
	RACON		**B(– • • •)**				(3cm).
19136.5 *P 3633.17*	Lu Yu Reef, S.	25° 19.4′ N 119° 28.6′ E	**Fl.W.** period 6s fl. 0.5s, ec. 5.5s	33 **10**	10	White concrete column, red bands; 36.	
19136.7 *P 3633.025*	Xiaojia Dao.	25° 17.5′ N 119° 46.2′ E	**Fl.(2)W.** period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	72 **22**	4	White square concrete tower, black bands; 26.	
19137 *P 3627.5*	Jian Yu.	24° 57.9′ N 119° 01.9′ E	**Fl.(3)W.** period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	72 **22**	10	Black round stone tower, white bands; 26.	
	RACON		**G(– – •)**				(3cm).
19137.1 *P 3627.52*	-S.	24° 57.9′ N 119° 01.9′ E	**Fl.W.** period 10s	217 **66**	**15**	White hexagonal concrete tower, red bands; 52.	
	-RACON		**G(– – •)**				
19139 *P 3627.8*	Meizhou Dao, E.	25° 04.7′ N 119° 09.0′ E	**Fl.W.** period 6s fl. 0.5s, ec. 5.5s	36 **11**	4	Gray pile.	Fishing light.
19139.9 *P 3627.905*	Beiding Yu.	25° 08.3′ N 119° 23.5′ E	**Fl.W.** period 4s fl. 0.5s, ec. 3.5s	62 **19**	4	White hexagonal concrete column, red bands; 23.	
	RACON		**C(– • – •)**				(3cm).
19140.1 *P 3627.908*	Nanri Dao.	25° 09.5′ N 119° 31.1′ E	**Fl.(3)W.** period 10s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 6.5s	102 **31**	4	White concrete column, red bands; 26.	
19141 *P 3627*	**Dazou Yan.**	24° 53.1′ N 118° 59.0′ E	**Fl.W.** period 15s	246 **75**	**18**	White concrete column, red stripes; 52.	Reserve light range 10M.
	RACON		**C(– • – •)**				(3cm).
19144 *P 3626*	Ch'ung-wu, SW. corner of city wall.	24° 52.6′ N 118° 56.0′ E	**F.W.**	118 **36**	10	White square brick structure.	Fishing light.
19148 *P 3625*	Niao Yu.	24° 50.2′ N 118° 49.7′ E	**Fl.(2)W.** period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	88 **27**	10	White masonry column, black bands; 23.	
	RACON		**Z(– – • •)**				(3cm).

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			CHINA				
19150 *P 3620.8*	**Xiangzhi Jiao.**	24° 46.4′ N 118° 46.7′ E	**Fl.(3)W.** period 15s	167 **51**	**16**	White hexagonal masonry pile, red stripes; 52.	Reserve light range 6M.
	RACON		**Q(– – • –)**				(3cm).
19150.4 *P 3620.4*	Shenhu Wan.	24° 38.2′ N 118° 41.0′ E	**Fl.(2)W.** period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	56 **17**	10	White concrete column, red stripes; 30.	
19150.6 *P 3620.25*	Baiyang.	24° 32.4′ N 118° 33.1′ E	**Fl.W.** period 4s fl. 0.5s, ec. 3.5s	62 **19**	10	Red concrete pillar, black bands; 26.	
19150.7 *P 3612.195*	**Nanpao Tai.**	24° 24.3′ N 118° 04.0′ E	**Fl.W.** period 10s	230 **70**	**15**	White concrete pillar; 171.	Reserve light range 9M.
19150.8 *P 3612.2*	Tu Dao.	24° 24.5′ N 118° 04.0′ E	**Fl.(2)W.** period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	74 **22**	7	White column, black bands; 33.	
19151.7 *P 3612.57*	Mu Yu.	24° 24.6′ N 118° 00.0′ E	**Q.W.**	33 **10**	4	N. CARDINAL BY, pole, topmark.	
19151.8 *P 3612.54*	Ji Yu.	24° 25.9′ N 118° 00.4′ E	**Fl.(3)W.** period 10s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 6.5s	128 **39**	7	White pile, red bands, red square daymark; 26.	
19151.85 *P 3612.552*	Datu Zhou, SW.	24° 24.2′ N 117° 54.4′ E	**Fl.G.** period 4s	26 **8**	5	STARBOARD (A) G, beacon, topmark; 16.	
19151.86 *P 3612.553*	Nanxi Kou.	24° 23.7′ N 117° 54.9′ E	**Fl.W.** period 3s	23 **7**	5	White pile; 16.	
19152 *P 3613*	Huang Jiao.	24° 26.6′ N 118° 04.4′ E	**Fl.(2)R.** period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	46 **14**	3	Red octagonal concrete pyramid; 10.	
19156 *P 3613.5*	Zhangyu Jiao.	24° 27.0′ N 118° 04.2′ E	**Fl.R.** period 4s fl. 0.5s, ec. 3.5s	25 **8**	3	PORT (A) R, pyramid, topmark; 30.	
19160 *P 3614*	Jiangxin Jiao.	24° 27.1′ N 118° 04.1′ E	**Fl.(2)R.** period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	26 **8**	3	PORT (A) R, pyramid, topmark; 30.	
19162 *P 3614.4*	Muquian Jiao.	24° 26.6′ N 118° 01.2′ E	**Fl.(2)W.** period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	16 **5**	6	ISOLATED DANGER BRB, structure, topmark; 33.	
19163 *P 3614.5*	Niaoqi Jiao.	24° 27.5′ N 118° 03.7′ E	**Fl.W.** period 4s fl. 0.5s, ec. 3.5s	23 **7**	7	White concrete column, green bands; 16.	
19164 *P 3615.5*	Dayu, on S. end of island.	24° 27.6′ N 118° 02.7′ E	**Fl.W.** period 4s fl. 0.5s, ec. 3.5s	144 **44**	7	Red hexagonal stone column, white stripes; 43.	
19168 *P 3615*	**Hou Yu.**	24° 28.1′ N 118° 03.3′ E	**Fl.W.** period 6s	108 **33**	**16**	White stone tower, red bands; 66.	
	RACON		**K(– • –)**				(3cm).
19172 *P 3616*	Manyu Jiao.	24° 28.6′ N 118° 03.7′ E	**Fl.W.** period 4s fl. 0.5s, ec. 3.5s	59 **18**	7	White hexagonal concrete tower; 69.	
19174 *P 3617*	Niufen Jiao.	24° 30.0′ N 118° 04.3′ E	**Fl.(2)G.** period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	16 **5**	7	STARBOARD (A) G, pyramid, topmark; 36.	
19174.51 *P 3618.061*	Xinglin Bridge, 1.	24° 33.2′ N 118° 06.0′ E	**Q.Y.**	16 **5**	3	Yellow metal post, red band; 7.	Marks bridge pier.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			CHINA				
19174.55 *P 3618.07*	Jimei, breakwater, No 1.	24° 33.2′ N 118° 06.0′ E	**Q.Y.**	13 **4**	4	Yellow concrete tower, red bands; 13.	
19175 *P 3618.385*	**Wutongdao**.	24° 31.7′ N 118° 11.4′ E	**Fl.(3)W.** period 15s	262 **80**	**16**	White round concrete pillar; 226.	Reserve light range 9M.
19175.7 *P 3620.08*	Liao-lo Harbor, S. breakwater.	24° 24.5′ N 118° 25.4′ E	**Fl.R.** period 6s		5		
19176 *P 3620*	Pei-ting Tao.	24° 25.6′ N 118° 30.3′ E	**Fl.(2)W.** period 10s fl. 0.5s, ec. 1s fl. 0.5s, ec. 8s	119 **36**	11	White round brick tower; 56.	**Gun:** 1 report in answer to vessel's fog signal, 2 reports 5 minutes later, repeated while vessel's fog signal continues to be heard
19180 *P 3612*	-Ta-tan Tao, S. side.	24° 23.2′ N 118° 10.1′ E	**Fl.W.** period 3s fl. 0.3s, ec. 2.7s	299 **91**	10	White metal hut; 10.	
19184 *P 3610*	**-Qing Yu.**	24° 21.9′ N 118° 07.5′ E	**Fl.(4)W.** period 20s	135 **41**	**18**	White octagonal tower, red stripes; 33.	
	-RACON		**C(– • – •)**				(3cm).
19186 *P 3609*	-Jiuzhe Jiao.	24° 20.2′ N 118° 09.7′ E	**Fl.(2)W.** period 6s	43 **13**	10	White column, red bands; 49.	
	-RACON		**M(– –)**				(3cm).
19186.05 *K 3608.2*	Wu Yu, E.	24° 20.0′ N 118° 09.1′ E	**Fl.W.** period 2s fl. 0.5s, ec. 1.5s	49 **15**	5	White concrete column, black bands; 20.	
19186.1 *P 3608.35*	-Wuan, W.	24° 19.9′ N 118° 07.6′ E	**Fl.(2)W.** period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	33 **10**	5	White metal column, green bands; 23.	
19186.2 *P 3609.2*	Gui Jiao.	24° 20.2′ N 118° 07.4′ E	**Fl.W.** period 4s fl. 0.5s, ec. 3.5s	43 **13**	7	White concrete column; 33.	
19186.25 *P 3609.25*	Bai Yu.	24° 21.0′ N 118° 08.1′ E	**Fl.(3)W.** period 10s	66 **20**	7	White concrete column, red bands; 26.	
19187 *P 3605.5*	Linjin Yu.	24° 11.2′ N 118° 01.5′ E	**Fl.(2)W.** period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	75 **23**	7	White concrete column, red bands; 26.	
19188 *P 3605*	Nanding Dao.	24° 08.1′ N 118° 02.3′ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	197 **60**	10	Black stone column, white bands; 33.	
	RACON		**X(– • • –)**				(3cm).
19192 *P 3604*	Qian Yan.	23° 54.7′ N 117° 51.7′ E	**Fl.W.** period 4s fl. 0.5s, ec. 3.5s	85 **26**	10	White hexagonal concrete column; 39.	
19193 *P 3603.6*	Waiying.	23° 46.9′ N 117° 44.1′ E	**Fl.(2)W.** period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	79 **24**	10	White concrete column, red bands; 33.	
	RACON		**G(– – •)**				(3cm).
19196 *P 3606*	Tung-ting Tao, Tungting Hsu, summit.	24° 09.7′ N 118° 14.0′ E	**Fl.W.** period 10s fl. 1s, ec. 9s	226 **69**	12	Black round brick tower; 62.	**Gun:** 1 report in answer to vessel's fog signal, 2 reports 5 minutes later, repeated while vessel's fog signal continues to be heard.
19197 *P 3607*	**Zhenhai Jiao.**	24° 16.1′ N 118° 07.9′ E	**Fl.(2)W.** period 6s	361 **110**	**24**	White hexagonal concrete column; 75.	Reserve light range 15M.
19200 *P 3603*	**Gulei Tou.**	23° 43.3′ N 117° 35.3′ E	**Fl.(2)W.** period 10s	374 **114**	**24**	White round concrete tower; 75.	Reserve light range 15M. **AIS** (MMSI No 004132808).

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			CHINA				
19202 *P 3600.3*	Luci Jiao.	23° 42.2′ N 117° 30.0′ E	**Fl.W.** period 2s	20 **6**	5	White concrete column, red bands; 16.	
19204 *P 3598.5*	Shih Yu.	23° 34.8′ N 117° 27.2′ E	**Fl.W.** period 5s	180 **55**	9	Black round masonry structure, white bands; 23.	
	RACON		**Y(– • – –)**				(3cm).
19205 *P 3598*	**Xiongdi Yu.**	23° 32.0′ N 117° 41.3′ E	**Fl.(3)W.** period 10s	240 **73**	**16**	Red hexagonal stone structure, white stripes; 39.	Reserve light range 6M.
	RACON		**M(– –)**				(3cm).
19206 *P 3587.7*	**Nanpeng Liedao.**	23° 15.5′ N 117° 17.0′ E	**Fl.W.** period 12s	302 **92**	**22**	White round concrete tower; 75.	
	RACON		**K(– • –)**				(3cm).
19206.3 *P 3587.74*	**Sancongya.**	23° 24.2′ N 117° 08.2′ E	**Fl.W.** period 8s	253 **77**	**18**	White concrete tower, red stripes; 98.	
19206.5 *P 3587.625*	Huafeng.	23° 33.9′ N 117° 07.9′ E	**L.Fl.W.** period 6s fl. 2s, ec. 4s	66 **20**	10	Red round metal dolphin; 43.	
19207 *P 3587.62*	**Zhe Lin.**	23° 32.5′ N 117° 03.7′ E	**Fl.(2)W.** period 6s fl. 0.3s, ec. 1s fl. 0.3s, ec. 4.4s	177 **54**	**15**	White round masonry pile; 36.	
19208 *P 3588*	**Biao Jiao.**	23° 14.3′ N 116° 48.4′ E	**Fl.W.** period 8s	200 **61**	**20**	White round concrete tower; 52.	**Horn:** 1 bl. ev. 20s
	RACON		**K(– • –)**				(3cm).
19209 *P 3588.8*	Guang'ao Range, front.	23° 13.9′ N 116° 46.1′ E	**F.R.**	177 **54**	10	White concrete column, red stripe; 157.	Reserve light Oc.R. 5s.
19209.2 *P 3588.81*	-Rear, 359°58′ from front.	23° 14.2′ N 116° 46.1′ E	**F.R.**	223 **68**	10	White concrete column, red stripe; 135.	Reserve light Oc.R. 5s.
19210 *P 3588.5*	Guang'ao Gang, LPG terminal.	23° 12.4′ N 116° 47.1′ E	**L.Fl.W.** period 6s	82 **25**	10	White round metal tower; 52.	
19216 *P 3591*	**De Zhou.**	23° 19.6′ N 116° 45.4′ E	**Fl.W.** period 5s	242 **74**	**18**	White round concrete tower; 75.	
	SHANTOU GANG:						
19223 *P 3587.43*	-Lanchangdukou breakwater, head.	23° 24.9′ N 116° 51.4′ E	**Q.W.**	43 **13**	5	White metal tower, red bands; 23.	
19224 *P 3593*	-No 1 Range, front.	23° 19.6′ N 116° 45.5′ E	**F.R.**	108 **33**	7	White round structure, red stripe; 52.	
	-RACON		**B(– • • •)**				(3cm).
19224.1 *P 3593.1*	--Rear, 1,620 meters 322° from front.	23° 20.3′ N 116° 44.9′ E	**F.R.**	157 **48**	7	White round concrete structure, red stripe; 135.	
19229 *P 3589.2*	-Submerged breakwater, head.	23° 17.2′ N 116° 47.9′ E	**V.Q.(6)+L.Fl.W.** period 10s	27 **8**	5	S. CARDINAL YB, beacon, topmark.	
19230 *P 3589*	-Chi Yu.	23° 16.9′ N 116° 47.3′ E	**Fl.(2)W.** period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	79 **24**	10	Yellow hexagonal masonry column; 33.	
19231 *P 3589.4*	-Breakwater, head.	23° 18.4′ N 116° 46.9′ E	**Mo.(P)Y.** period 12s	24 **7**	5	SPECIAL Y, beacon, "X" topmark.	
19232 *P 3590*	Chien Shih, on summit.	23° 18.9′ N 116° 45.7′ E	**Fl.W.** period 4s	39 **12**	4	White hexagonal concrete pile; 16.	
19234 *P 3592.3*	Lu Yu, S. side.	23° 19.5′ N 116° 45.3′ E	**Fl.W.** period 2s	33 **10**	5	Red and white round metal pillar; 23.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			CHINA				
19240 *P 3594*	-Lu Yu Danger Range, front.	23° 19.7′ N 116° 45.2′ E	**F.W.**	115 **35**	5	Post, triangular daymark point up; 26.	Lights in line 127° indicate rocks on S. side of Ma Yu and SW. extremity of fish stakes on which fishing lights shown.
19240.1 *P 3594.1*	--Rear, 250 meters 126°47′ from front.	23° 19.6′ N 116° 45.3′ E	**F.W.**	174 **53**	5	White concrete tower, triangular daymark point down; 33.	
19244 *P 3595.2*	-No 3.	23° 21.2′ N 116° 40.9′ E	**Dir.W.R.G.**	92 **28**	4	White metal framework tower; 89.	F.G. 281°-282°39′, F.W.-283°21′, F.R.-285°.
19249 *P 3595.3*	Gui Yu.	23° 20.2′ N 116° 38.4′ E	**Fl.(2)W.** period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	89 **27**	10	White metal framework structure; 46.	
19264 *P 3586*	**Shibeishan Jiao.**	22° 56.3′ N 116° 29.8′ E	**Fl.W.** period 15s	223 **68**	**22**	White round concrete tower; 194.	
	RACON		**C(– • – •)**				(3cm).
19272 *P 3585*	**Jiazi Jiao.**	22° 49.4′ N 116° 05.8′ E	**Fl.W.** period 10s	256 **78**	**18**	White round concrete tower; 56.	
19276 *P 3584*	**Tianwei Jiao.**	22° 44.6′ N 115° 48.8′ E	**Fl.W.** period 7s	272 **83**	**18**	White round concrete tower; 20.	
19280 *P 3582*	**Zhelang Jiao.**	22° 39.1′ N 115° 34.2′ E	**Fl.W.** period 8s	131 **40**	**18**	White round concrete tower; 20.	
19284 *P 3581.345*	Shan-Wei.	22° 43.6′ N 115° 01.6′ E	**Fl.W.** period 6s fl. 0.5s, ec. 5.5s	31 **9**	9	White round concrete pile; 33.	
19286 *P 3581.35*	-Pier.	22° 46.9′ N 115° 20.6′ E	**Oc.W.** period 3s lt. 2s, ec. 1s	49 **15**	7	White metal framework tower, red triangular daymark point up; 43.	
19288 *P 3581.298*	**Fuji Jiao.**	22° 34.0′ N 114° 54.2′ E	**Fl.W.** period 13s	715 **218**	**24**	White round concrete tower; 82.	
19288.5 *P 3581.284*	Tiezchen Jiao.	22° 32.7′ N 114° 52.2′ E	**Fl.(2)W.** period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	49 **15**	6	White round concrete pile; 23.	
19289 *P 3581.218*	Daya Wan.	22° 35.0′ N 114° 43.1′ E	**L.Fl.W.** period 8s fl. 2s, ec. 6s	213 **65**	10	Concrete tower; 75.	
	RACON		**G(– – •)**				(3cm).
19289.5 *P 3581.228*	Xiaochi Zhou.	22° 38.4′ N 114° 38.6′ E	**Fl.W.** period 8s	144 **44**	10	White round concrete pile; 26.	
19290 *P 3580.98*	**Qing Zhou.**	22° 24.3′ N 114° 40.0′ E	**Fl.W.** period 6s	351 **107**	**18**	White round concrete tower; 66.	
	RACON		**K(– • –)**				(3cm).
19291 *F 3578.48*	Huoshao Pai.	22° 32.1′ N 114° 28.7′ E	**Fl.W.** period 6s	16 **5**	4	Red and white post; 10.	
19292 *P 3578.3*	Mirs Bay, Shek Ngau Chau.	22° 28.0′ N 114° 25.7′ E	**Fl.W.** period 4s fl. 0.5s, ec. 3.5s	85 **26**	12	White square concrete tower.	
19296 *P 3578.4*	-Wong Mau Chau.	22° 26.9′ N 114° 23.7′ E	**Fl.R.** period 5s	75 **23**	5	White square concrete tower; 16.	
19300 *P 3580.95*	Fan Tsang Chau.	22° 21.9′ N 114° 23.5′ E	**Fl.(2)W.** period 6s	20 **6**	5	White concrete tower; 13.	Visible 008°-250°.
19306 *P 3580.9*	Fu Tau Pun Chau, NW. end.	22° 20.3′ N 114° 21.7′ E	**Fl.(4)W.** period 15s	24 **7**	3	White concrete tower; 13.	
19310 *P 3580.93*	Wave Rock.	22° 19.7′ N 114° 21.7′ E	**Q.R.**	13 **4**	2	White column; 7.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			CHINA				
19312 *P 3580.94*	Victor Rock.	22° 18.0′ N 114° 25.5′ E	**Mo.(U)W.** period 15s		10	Yellow beacon.	**AIS.** **Horn:** Mo.(U) 30s.
19314 *P 3580.88*	Ki Yan Siak.	22° 21.8′ N 114° 19.9′ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	26 **8**	5	White concrete tower.	
19318 *P 3580.6*	Ma Chai Pai.	22° 19.4′ N 114° 19.8′ E	**Q.R.**	12 **4**	2	White column.	
19322 *P 3580.7*	Kiu Tsui Pai.	22° 21.7′ N 114° 17.1′ E	**Fl.(2)W.** period 10s	25 **8**	5	White concrete tower.	
19326 *P 3578*	**Waglan Island.**	22° 10.9′ N 114° 18.2′ E	**Fl.(2)W.** period 20s fl. 0.5s, ec. 3s fl. 0.5s, ec. 16s	226 **69**	**24**	White round metal tower, red bands; 52.	Visible 112°-095°. Shown by day when fog signal is operating. **Horn:** 2 bl. ev. 60s (bl. 2s, si. 4s, bl. 2s, si. 52s).
	-RACON		**K(– • –)**		12		(3 & 10cm).
19330 *P 3576*	**Hok Tsui.**	22° 12.5′ N 114° 15.5′ E	**Fl.W.** period 15s fl. 1s, ec. 14s	187 **57**	**20**	White concrete tower; 26.	
19334 *P 3575.6*	Ninepin Island, N. end.	22° 16.2′ N 114° 21.0′ E	**Fl.W.R.** period 10s fl. 1s, ec. 9s	144 **44**	W. 10 R. 7	White square concrete tower; 16.	W. 058°30′-212°, R.-299°30′.
19338 *P 3575.8*	Jam Pan Wan.	22° 16.2′ N 114° 18.2′ E	**Fl.G.** period 3s	43 **13**	3	White column.	
19342 *P 3574*	**Tung Lung Island.**	22° 14.3′ N 114° 17.3′ E	**Fl.(3)W.R.** period 10s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 4s	184 **56**	W. **19** R. 10	White pedestal; 7.	R. 237°-264°30′ (covering Ninepin Group), W.-137°30′. **Horn:** 3 bl. ev. 60s (bl. 5s, si. 5s, bl. 5s, si. 5s, bl. 5s, si. 35s).
19346	Tathong Channel, *Buoy TCS1*.	22° 13.2′ N 114° 20.2′ E	**L.Fl.W.** period 10s			SAFE WATER RW, pillar, topmark.	
19349 *P 3575.4*	-Tai Long Pai.	22° 14.0′ N 114° 16.0′ E	**Fl.(4)R.** period 15s fl. 0.3s, ec. 1s fl. 0.3s, ec. 1s fl. 0.3s, ec. 1s fl. 0.3s, ec. 10.8s	45 **14**	5	Red and white checkered concrete tripod.	**Radar reflector.**
19352 *P 3573.6*	-Ngai Ying Pai, No 91.	22° 14.6′ N 114° 16.8′ E	**Fl.W.** period 1.5s fl. 0.3s, ec. 1.2s	39 **12**	6	White concrete tower.	
19353 *P 3575*	-Tai Miu Wan, jetty, head.	22° 15.3′ N 114° 17.3′ E	**Q.R.**	23 **7**	1	Steel column; 13.	
19355 *P 3572*	**-Hak Kok Tau.**	22° 15.7′ N 114° 15.4′ E	**Fl.(2)W.R.** period 10s fl. 0.8s, ec. 1.5s fl. 0.8s, ec. 6.9s	163 **50**	W. **15** R. 12	Metal column, white dwelling; 20.	W. 158°-338°30′, R.-158°. Aero.Q.R. marks summit close W.
19358 *P 3573*	-Fat Tau Chau (Junk Island).	22° 16.4′ N 114° 15.9′ E	**Fl.(3)W.** period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 2.5s	66 **20**	9	White concrete tower.	
19364 *P 3571.8*	-Chi Wan, breakwater.	22° 16.4′ N 114° 14.7′ E	**Fl.R.** period 3s	20 **6**	3	White column.	
19367 *P 3571.72*	--Pier.	22° 16.4′ N 114° 14.7′ E	**Fl.G.** period 3s	20 **6**	3	White column.	
19370 *P 3570*	Eastern Fairway, A Kung Ngam.	22° 17.1′ N 114° 14.1′ E	**Fl.R.** period 5s fl. 0.4s, ec. 4.6s	37 **11**	11	Red concrete tripod.	Aero.F.Y. marks summit close SE.
19373 *P 3571.5*	--Typhoon shelter.	22° 17.2′ N 114° 13.7′ E	**Fl.R.** period 3s	23 **7**	3	White column.	Fl.G. 3s, Fl.R. 3s and Q.R. mark inner breakwaters.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			CHINA				
19373.5 *P 3571.52*	---E. Entrance, on dolphin.	22° 17.0′ N 114° 14.0′ E	**Fl.(2)W.** period 10s	16 **5**	3	White structure.	
19376 *P 3568*	-Sam Kok Tsui.	22° 17.3′ N 114° 14.2′ E	**Fl.G.** period 3s	29 **9**	5	Green column.	
19379 *P 3567*	--Typhoon Shelter, breakwater.	22° 17.4′ N 114° 14.2′ E	**Fl.R.** period 3s fl. 0.3s, ec. 2.7s	26 **8**	3	White column; 20.	
19379.5 *P 3566*	---On shore, breakwater, SE.	22° 17.4′ N 114° 14.3′ E	**Fl.G.** period 3s	28 **9**	3	White column; 16.	
19381 *P 3569*	-Lei Yue Mun.	22° 17.5′ N 114° 13.9′ E	**Q.R.**	16 **5**	2	White concrete structure.	**Radar reflector.**
19386 *P 3562.5*	-Kwun Tong Typhoon Shelter, breakwater, E. head.	22° 18.4′ N 114° 13.2′ E	**Fl.R.** period 3s	23 **7**	3	White column.	
19386.3 *P 3562.55*	--W. end.	22° 18.3′ N 114° 13.1′ E	**F.R.**	23 **7**	3	White column.	Q.R. marks N. end of inner breakwater.
19386.6 *P 3562.6*	--E. breakwater, head.	22° 18.4′ N 114° 13.1′ E	**Fl.G.** period 3s	23 **7**	3	White column.	
19389 *P 3560.5*	Kowloon Bay, To Kwa Wan Typhoon shelter, E.	22° 18.7′ N 114° 12.1′ E	**Fl.R.** period 3s	25 **8**	3	White column.	
19389.2 *P 3560.55*	-S.	22° 18.6′ N 114° 11.8′ E	**Fl.G.** period 3s	25 **8**	3	White column.	4 F.R. mark limits of anchoring prohibited area close SW.
19389.4 *P 3560.6*	-Middle.	22° 18.7′ N 114° 11.8′ E	**Fl.R.** period 3s	25 **8**	3	White column.	
19389.6 *P 3560.65*	-N.	22° 18.8′ N 114° 11.7′ E	**Fl.G.** period 3s	25 **8**	3	White structure.	
19400 *P 3551.2*	-Wan Chai, entrance, E. side.	22° 17.1′ N 114° 10.9′ E	**F.R.**	22 **7**	3	White column.	
19400.1 *P 3551.4*	--Entrance, E. side.	22° 17.1′ N 114° 10.9′ E	**Fl.R.** period 3s	24 **7**	5	White concrete tower.	
19400.2 *P 3551*	--W. side of entrance.	22° 17.1′ N 114° 10.9′ E	**Fl.G.** period 3s fl. 0.3s, ec. 2.7s	23 **7**	3	White metal column.	
19400.3 *P 3553.3*	-W. Arm, Typhoon Anchorage.	22° 17.1′ N 114° 10.9′ E	**Fl.G.** period 3s	21 **6**	3	White concrete column; 13.	
19400.4 *P 3553*	-N. Arm, W. end.	22° 17.1′ N 114° 11.0′ E	**Fl.R.** period 3s fl. 0.5s, ec. 2.5s	16 **5**	3	White column; 13.	
19400.5 *P 3553.6*	-E. Arm.	22° 17.3′ N 114° 11.3′ E	**Fl.R.** period 3s	16 **5**	3	White column; 13.	
19405 *P 3576.6*	**Poi Toi Island.**	22° 09.4′ N 114° 15.5′ E	**Fl.W.** period 10s	220 **67**	**18**	White square building.	
19410 *P 3577*	**Bluff Point.**	22° 11.7′ N 114° 12.8′ E	**Fl.(5)W.** period 30s	220 **67**	**20**	White square building; 10.	
19412 *P 3577.2*	Un Kok.	22° 10.9′ N 114° 08.9′ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	116 **35**	10	White concrete tower; 13.	
19415 *P 3576.8*	Lo Chau, NW. end.	22° 11.3′ N 114° 14.7′ E	**Fl.W.R.** period 3s fl. 0.5s, ec. 2.5s	122 **37**	W. 10 R. 8	White concrete tower; 26.	R. 000°-034°, W.-000°.
19417	E. Lamma Channel, *Buoy LCS1.*	22° 09.3′ N 114° 12.7′ E	**L.Fl.W.** period 10s			SAFE WATER RW, pillar.	**Radar reflector.**
19420 *P 3577.1*	-Ngan Chau.	22° 12.8′ N 114° 11.1′ E	**Al.Fl.W.R.W.** period 10s fl. 0.1s, ec. 1.6s fl. 0.1s, ec. 1.6s fl. 0.1s, ec. 6.5s	92 **28**	W. 11 R. 8	White square building; 13.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			CHINA				
19421.1 *P 3577.3*	-SW.	22° 09.2′ N 114° 06.0′ E	**Mo.(U)W.** period 15s		13		Wind monitoring station. **Horn:** Mo(U) ev. 15s.
19422 *P 3577.4*	-Wong Chu Kok.	22° 12.5′ N 114° 09.6′ E	**Fl.(4)W.** period 20s fl. 0.2s, ec. 3.1s fl. 0.2s, ec. 3.1s fl. 0.2s, ec. 3.1s fl. 0.2s, ec. 9.9s	90 **27**	10	White concrete tower; 13.	
19425 *P 3577.68*	-Ap Lei Pai.	22° 13.7′ N 114° 09.7′ E	**Fl.W.** period 15s fl. 1s, ec. 14s	26 **8**	5	White concrete tower.	
19427 *P 3577.84*	-Aberdeen Harbor, E. entrance, E. breakwater.	22° 14.3′ N 114° 09.8′ E	**Fl.G.** period 3s fl. 0.3s, ec. 2.7s	21 **6**	3	White column; 10.	
19427.5 *P 3577.8*	--W. breakwater.	22° 14.2′ N 114° 09.8′ E	**Fl.R.** period 3s fl. 0.3s, ec. 2.7s	21 **6**	3	White column; 10.	
19430 *P 3577.7*	--W. entrance.	22° 15.0′ N 114° 09.0′ E	**Fl.R.** period 3s fl. 0.3s, ec. 2.7s	21 **6**	3	White column; 10.	
19431 *P 3577.86*	--Wong Nei Pai.	22° 14.5′ N 114° 09.7′ E	**Fl.(2)W.** period 5s	16 **5**	5	White metal column.	
19432 *P 3577.64*	-Lung Shan Pai.	22° 14.5′ N 114° 08.6′ E	**Fl.(3)W.** period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 2.5s	23 **7**	7	White concrete tower; 20.	4 F.R. mark limits of submarine cable area in vicinity.
19437 *P 3577.6*	-Fo Yeuk Chau, W. end of island.	22° 14.6′ N 114° 08.3′ E	**Fl.W.** period 1.5s	26 **8**	5	White concrete tower; 36.	
19442 *P 3577.44*	-NE. Lamma Island.	22° 14.3′ N 114° 07.3′ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	43 **13**	6	White concrete tower.	Visible 122°-315°. 4 F.R. mark limits of submarine cable area in vicinity.
19445 *P 3537.8*	-Kong Sin Wan.	22° 15.8′ N 114° 07.5′ E	**Q.Y.**	16 **5**	1	SPECIAL Y, column, "X" topmark.	
19460 *P 3538*	**Tsing Chau.**	22° 17.0′ N 114° 06.7′ E	**Fl.W.** period 10s fl. 0.4s, ec. 9.6s	121 **37**	**16**	White round tower; 59.	Visible 277°-186°. F.R. lights mark the piers in Hong Kong harbor.
19473 *P 3548*	--China Ferry Terminal, breakwater, No 1.	22° 18.0′ N 114° 10.0′ E	**Fl.R.** period 3s	25 **8**	3	White column.	
19473.3 *P 3548.2*	---No 2.	22° 18.0′ N 114° 10.0′ E	**Fl.G.** period 3s	25 **8**	3	White column.	
19473.6 *P 3548.3*	---N. breakwater.	22° 18.0′ N 114° 10.0′ E	**Fl.R.** period 3s	22 **7**	3	White column.	
19476 *P 3545.5*	-Yau Ma Tei Typhoon Shelter, N. entrance, N. side.	22° 19.0′ N 114° 09.3′ E	**Fl.R.** period 3s	26 **8**	3	White column.	
19476.2 *P 3545.55*	--N. entrance, S. side.	22° 18.9′ N 114° 09.3′ E	**Fl.G.** period 3s	26 **8**	3	White column.	
19476.4 *P 3545.7*	--S. entrance, N. side.	22° 18.4′ N 114° 09.3′ E	**Fl.R.** period 3s	26 **8**	3	White column.	
19476.6 *P 3545.75*	---S. side.	22° 18.3′ N 114° 09.3′ E	**Fl.G.** period 3s	26 **8**	3	White column.	
19480 *P 3541.3*	-Naval Typhoon Shelter, W. breakwater.	22° 19.5′ N 114° 08.6′ E	**Fl.G.** period 3s	23 **7**	3	White column.	
19480.5 *P 3541*	--E. breakwater, head.	22° 19.5′ N 114° 08.7′ E	**Fl.R.** period 3s	23 **7**	2	White column; 13.	F.R. shown near root.
19482 *P 3540.8*	-Naval Base, E. breakwater.	22° 18.9′ N 114° 08.1′ E	**Fl.G.** period 3s	19 **6**	3		

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			CHINA				
19482.1 *P 3540.85*	--W. breakwater.	22° 18.9′ N 114° 08.1′ E	**Fl.R.** period 3s	19 **6**	3		Head of breakwater marked by Q.R. 6m 1M.
19483 *P 3540.7*	--Range, front.	22° 19.2′ N 114° 08.0′ E	**Q.W.**	78 **24**	3	Black and white beacon, square daymark.	
19483.1 *P 3540.75*	---Rear, 350° from front.	22° 19.2′ N 114° 08.0′ E	**Iso.W.** period 3s	95 **29**	3	Black and white beacon, square daymark.	
	RAMBLER CHANNEL:						
19483.2 *P 3537.4*	-Tsing Yi S. Marine Basin. No 1.	22° 19.6′ N 114° 06.8′ E	**Fl.G.** period 3s	23 **7**	3	White column.	
19483.25 *P 3537.41*	---No 2.	22° 19.6′ N 114° 06.7′ E	**Fl.R.** period 3s	23 **7**	3	White column.	
19483.3 *P 3537.432*	-Stonecutter's Bridge, S. side.	22° 19.5′ N 114° 07.1′ E	**Iso.W.** period 4s	269 **82**	4		Q.R. and Q.G. mark limits of northbound underpass.
19483.31 *P 3537.435*	--N. side.	22° 19.5′ N 114° 07.1′ E	**Iso.W.** period 4s	269 **82**	4		Q.R. and Q.G. mark limits of southbound underpass.
19483.5 *P 3535.666*	Rambler Channel, Tsing Yi Bridge, S. approach, W. side.	22° 20.9′ N 114° 06.8′ E	**F.R.**	20 **6**	2	White column.	
19483.6 *P 3535.668*	-E. side.	22° 20.9′ N 114° 06.8′ E	**F.R.**	20 **6**	2	White column.	
19484.1 *P 3535.42*	-N. side.	22° 20.9′ N 114° 06.8′ E	**Iso.W.** period 4s	71 **22**	5		Q.R. and Q.G. mark limits of southbound underpass.
19485 *P 3535.78*	-Kwai Tsing Bridge, S. side.	22° 21.0′ N 114° 06.8′ E	**Iso.W.** period 4s	85 **26**	3		Q.R. and Q.G. mark limits of northbound underpass.
19485.1 *P 3535.72*	--N. side.	22° 21.0′ N 114° 06.8′ E	**Iso.W.** period 4s	79 **24**	3		Q.R. and Q.G. mark limits of southbound underpass.
19486 *P 3535.94*	-Tsing Lai Bridge, S. side.	22° 21.4′ N 114° 06.7′ E	**Iso.W.** period 4s	69 **21**	3		Q.R. and Q.G. mark limits of northbound underpass.
19486.1 *P 3535.91*	--N. side.	22° 21.5′ N 114° 06.6′ E	**Iso.W.** period 4s	59 **18**	3		Q.R. and Q.G. mark limits of southbound underpass.
19488 *P 3534.2*	-Typhoon Shelter, N. entrance, N. side.	22° 21.6′ N 114° 06.7′ E	**Fl.R.** period 3s	16 **5**	3	White column.	
19488.2 *P 3534.22*	--N. entrance, S. side.	22° 21.5′ N 114° 06.7′ E	**Fl.G.** period 3s	23 **7**	3	White column.	
19488.4 *P 3534.24*	--S. entrance, N. side.	22° 21.2′ N 114° 06.9′ E	**Fl.R.** period 3s fl. 0.5s, ec. 2.5s	23 **7**	3	White column.	
19488.6 *P 3534.3*	--S. entrance, S. side.	22° 21.2′ N 114° 06.9′ E	**Fl.G.** period 3s fl. 0.5s, ec. 2.5s	23 **7**	3	White column.	
19492 *P 3534*	-Channel Rock.	22° 21.5′ N 114° 06.7′ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	13 **4**	6	White concrete tower; 13.	
19496 *P 3536.5*	-Tsing Tsuen Bridge, center.	22° 21.6′ N 114° 06.6′ E	**Iso.W.** period 4s	89 **27**	7		On N. and S. sides. Q.R. and Q.G. mark limits of each underpass. Bridge piers to N. marked by F.R.
19498 *P 3536.72*	Ting Kau Bridge, center.	22° 21.7′ N 114° 04.8′ E	**Iso.W.** period 4s	218 **66**	5		On E. and W. sides. Q.R. and Q.G. mark limits of each underpass. Bridge piers N. and S. marked by F.R.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			CHINA				
19504 *P 3537.6*	Kau Yi Chau.	22° 17.2′ N 114° 04.8′ E	**Fl.(2)W.R.** period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	30 **9**	W. 11 R. 8	White concrete framework tower.	W. 081°-092°, R.-128°, W.-350°.
19508 *P 3537.7*	-S. side	22° 16.9′ N 114° 04.6′ E	**Fl.(3)W.** period 20s	23 **7**	3	White concrete structure; 16.	
19512 *P 3532.2*	Ma Wan Fairway, channel lead light.	22° 21.8′ N 114° 04.2′ E	**Dir.W.R.G.** period 8s fl. 6s, ec. 2s	93 **28**	W. 8 R. 4 G. 4	White metal framework tower.	Traffic signals. Oc.G. 335°-338°, Oc.W.-342°, Oc.R.-345°.
19514 *P 3532.25*	-E.	22° 22.0′ N 114° 04.4′ E	**3 Oc.R.** (vert.) period 8s	46 **14**	2	White framework tower.	Visible 255°-015°.
19516 *P 3531*	Pun Shan Shek.	22° 19.3′ N 114° 04.1′ E	**Fl.R.** period 3s	23 **7**	5	White concrete tower; 33.	
19520 *P 3530.6*	**Tang Lung Chau.**	22° 20.4′ N 114° 03.8′ E	**Fl.W.** period 5s fl. 1s, ec. 4s	121 **37**	**18**	White framework tower; 39.	Visible 224°-099°. Aero Q.R. on summit 1770 meters WSW. **Horn:** 1 bl. ev. 15s (bl. 2s, si. 13s).
19521 *P 3530.8*	Kap Shui Mun Bridge, center.	22° 20.6′ N 114° 03.3′ E	**Iso.W.** period 4s	174 **53**	5		On N. and S. sides. Q.R. and Q.G. mark limits of each underpass.
19523 *P 3530.9*	Tsing Ma Bridge, center.	22° 21.0′ N 114° 04.3′ E	**Iso.W.** period 4s	226 **69**	5		On N. and S. sides. Q.R. and Q.G. mark limits of each underpass.
19524 *P 3532.3*	Ma Wan, Nqau Lau Tsui.	22° 21.3′ N 114° 03.9′ E	**L.Fl.W.Y.R.G.** period 6s fl. 2s, ec. 4s	93 **28**	W. 5 Y. 4 R. 3 G. 3	White framework tower.	Y. 091°-158°, R.-213°, G.-258°, R.-286°, W.-321°. Shown when vessel constrained by draft is transiting Ma Wan Channel.
19526 *P 3532*	-NE. Point.	22° 21.4′ N 114° 04.0′ E	**Fl.(2)W.** period 10s	26 **8**	5	White concrete column.	
19528 *P 3529.5*	-NW. point.	22° 21.3′ N 114° 03.4′ E	**3 Oc.R.** (vert.) period 8s	43 **13**	2	White framework tower.	Two meters apart. Traffic signals. Visible 053°-091°.
19532 *P 3530*	-W. point.	22° 20.9′ N 114° 03.2′ E	**Fl.W.** period 3s fl. 1.4s, ec. 1.6s	49 **15**	10	White framework tower; 26.	
19540 *P 3521.54*	Datum Rock.	22° 16.3′ N 114° 03.8′ E	**Q.R.**	23 **7**	3	White concrete tower; 20.	
19544 *P 3531.3*	Peng Chau, Wu Ying Pai.	22° 18.2′ N 114° 02.2′ E	**Fl.(2)W.** period 10s	16 **5**	3	White column; 13.	
19546 *P 3531.5*	-W.	22° 18.0′ N 114° 01.8′ E	**Q.R.**	16 **5**	1	White column; 13.	Q.R. shown from Tso Yuen Wan westward.
19548 *P 3521.66*	-Comber Rock	22° 17.0′ N 114° 02.0′ E	**Q.R.**	10 **3**	2	White column.	
19550 *P 3521.7*	Discovery Bay Marina, S. breakwater.	22° 17.4′ N 114° 01.4′ E	**Fl.G.** period 3s	23 **7**	3	White column.	
19550.5 *P 3521.72*	-N. breakwater.	22° 14.7′ N 114° 08.7′ E	**Fl.R.** period 3s	23 **7**	3	White column.	
19552 *P 3521.6*	Chau Kung Island.	22° 16.0′ N 114° 03.0′ E	**Fl.R.** period 5s fl. 0.5s, ec. 4.5s	17 **5**	3	White column; 10.	F.W. on jetty 1.31 miles NW.
19554 *P 3521.83*	Ngan Kwong Wan.	22° 15.7′ N 114° 00.3′ E	**Q.R.**	20 **6**	2	White beacon.	
19554.5 *P 3521.8*	-Rock at entrance to bay.	22° 16.0′ N 114° 01.0′ E	**Q.W.**	25 **8**	4	White column; 20.	
19555 *P 3521.9*	-Hei Ling Chau Island, Typhoon Shelter, N. entrance.	22° 15.2′ N 114° 01.6′ E	**Fl.R.** period 3s	23 **7**	3	White column.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			CHINA				
19556 *P 3521.905*	-Hei Ling Chau Island, Typhoon Shelter, N. breakwater, N. head.	22° 15.1′ N 114° 01.6′ E	**Fl.G.** period 3s	23 **7**	3	White column.	
19556.2 *P 3521.91*	--S. head.	22° 14.5′ N 114° 01.9′ E	**Fl.R.** period 3s	30 **9**	3	White column.	
19556.4 *P 3521.915*	--S. breakwater, W. head.	22° 14.4′ N 114° 01.8′ E	**Fl.G.** period 3s	30 **9**	3	White column.	
19556.6 *P 3521.92*	---E. head.	22° 14.5′ N 114° 02.3′ E	**Fl.R.** period 3s	30 **9**	3	White column.	
19556.7 *P 3521.922*	Hei Ling Chau beacon.	22° 14.5′ N 114° 02.4′ E	**Fl.(2)W.** period 10s	20 **6**	5	ISOLATED DANGER BRB, beacon, topmark.	
19556.8 *P 3521.93*	-Hei Ling Chau Island, Rock SW.	22° 14.6′ N 114° 02.2′ E	**Fl.(2)W.** period 5s	16 **5**	1	White column.	
19557 *P 3521.925*	--E. breakwater.	22° 14.6′ N 114° 02.3′ E	**Fl.G.** period 3s	30 **9**	3	White column.	
19558 *P 3577.46*	W. Lamma Island, Shek Kok Tsui, off point.	22° 14.1′ N 114° 06.3′ E	**Fl.(3)W.** period 15s	39 **12**	10	White concrete tower.	
19562 *P 3577.5*	-Otsi Kok.	22° 13.7′ N 114° 06.4′ E	**Q.W.**	11 **3**	1	White metal column.	
19565 *F 3523.32*	Wailingding Dao.	22° 05.4′ N 114° 02.8′ E	**Fl.W.** period 6s	16 **5**	4	White metal post, red bands; 10.	
19566 *P 3523*	S. Traffic Separation Scheme, Cheung Chau Rock.	22° 12.3′ N 114° 02.8′ E	**Fl.(2)W.** period 10s fl. 0.5s, ec. 1s fl. 0.5s, ec. 8s	21 **6**	9	White concrete tower; 20.	
19570 *P 3522.3*	N. Traffic Separation Scheme, SE. extremity of Lantau Island.	22° 13.6′ N 114° 01.1′ E	**Fl.(4)W.** period 15s	16 **5**	4	White metal tower.	
19574 *P 3522*	-Chang Chow Passage, on Adamaster Rock between Lan Tau Shan and Cheung Chau Island.	22° 13.4′ N 114° 01.4′ E	**Fl.(2)W.** period 10s	16 **5**	11	ISOLATED DANGER BRB, beacon, topmark.	
19578 *P 3523.2*	-Cheuns Chau Island, Typhoon Shelter, N. breakwater, N. head.	22° 12.7′ N 114° 01.4′ E	**Fl.G.** period 3s	22 **7**	5	White column; 13.	
19578.2 *P 3523.22*	--S. head.	22° 12.5′ N 114° 01.3′ E	**Fl.R.** period 3s	22 **7**	5	White column; 13.	
19578.4 *P 3523.23*	--Middle breakwater, N. head.	22° 12.5′ N 114° 01.2′ E	**Fl.G.** period 3s	22 **7**	5	White column; 13.	
19578.6 *P 3523.24*	---S. head.	22° 12.4′ N 114° 01.3′ E	**Fl.R.** period 3s	22 **7**	5	White column; 13.	
19578.8 *P 3523.25*	--S. breakwater, N. head.	22° 12.3′ N 114° 01.2′ E	**Fl.G.** period 3s	22 **7**	5	White column; 13.	
19579 *P 3523.26*	---S. head.	22° 12.1′ N 114° 01.1′ E	**Fl.R.** period 3s	22 **7**	5	White column; 13.	
19582 *P 3523.4*	-Shek Ku Chau.	22° 12.1′ N 113° 59.2′ E	**Fl.(3)W.** period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	46 **14**	7	White square concrete tower; 16. Visible 048°30′-274°.	
19586 *P 3523.8*	-Siu A Chau.	22° 11.3′ N 113° 54.4′ E	**Fl.(2)W.** period 6s fl. 0.3s, ec. 2s fl. 0.3s, ec. 3.4s	90 **27**	7	White concrete tower.	
19587 *P 3523.5*	Zhizhou Liedao. Dazhi Zhou. Yinjiao Zui.	22° 07.7′ N 113° 53.4′ E	**Fl.W.** period 6s fl. 1s, ec. 5s	46 **14**	5	Metal framework tower; 16.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			CHINA				
19588 *P 3524*	-Lantau Island, SW. extremity.	22° 11.7′ N 113° 50.8′ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	65 **20**	14	White square concrete tower; 20.	Visible 261°-154°.
19590 *P 3515*	**Wenwei Zhou.**	21° 48.8′ N 113° 56.3′ E	**L.Fl.W.** period 6s	141 **43**	**19**	White round stone tower, red top, white fiberglass lantern; 59.	**AIS** (MMSI No 999413097).
	RACON		**O(– – –)**				(3cm).
19590.5 *P 3517*	Jiapeng Liedao.	21° 52.1′ N 113° 59.0′ E	**Fl.(2)W.** period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	92 **28**	5	Square metal tower; 16.	
19591 *P 3521.01*	Dawanshan Dao.	21° 55.6′ N 113° 42.9′ E	**Fl.W.** period 5s fl. 1s, ec. 4s	26 **8**	5	Metal framework structure; 13.	
19592 *P 3521.005*	Xiaowanshan Dao.	21° 56.6′ N 113° 40.6′ E	**Fl.W.** period 5s fl. 1s, ec. 4s	33 **10**	5	Metal framework structure; 16.	
19593 *P 3520.5*	Guizhou.	21° 59.2′ N 113° 47.5′ E	**L.Fl.W.** period 6s fl. 2s, ec. 4s	102 **31**	5	Metal framework tower; 13.	
19594 *P 3520*	**Zhu Zhou.**	21° 59.8′ N 113° 49.6′ E	**Fl.W.** period 4s fl. 0.3s, ec. 3.7s	607 **185**	**18**	White round metal tower; 49.	
	RACON		**N(– •)**				(3cm).
19606 *P 3521*	Sanya Pai.	22° 04.8′ N 113° 48.2′ E	**Fl.W.R.** period 6s fl. 0.8s, ec. 5.2s	79 **24**	W. 13 R. 8	White round pile; 20.	W. 165°-320°, R.-165°.
	RACON		**B(– • • •)**				(3cm).
19606.5 *P 3521.1*	**Xiaoputai Dao.**	22° 01.8′ N 113° 38.1′ E	**Fl.W.** period 9s fl. 0.5s, ec. 8.5s	207 **63**	**18**	White square stone masonry pile; 33.	
	RACON		**G(– – •)**				(3cm).
19607 *P 3521.13*	Datouzhou, S.	22° 05.7′ N 113° 42.3′ E	**Fl.W.** period 5s fl. 1s, ec. 4s	72 **22**	5	Metal framework tower; 13.	
19608 *P 3523.53*	**Xiaozhi Zhou.**	22° 06.8′ N 113° 52.1′ E	**Fl.W.** period 3s fl. 0.1s, ec. 2.9s	217 **66**	**18**	White concrete column, red bands; 49.	
19609 *P 3521.15*	Chitan Dao.	22° 07.3′ N 113° 45.7′ E	**Fl.W.** period 3s fl. 1s, ec. 2s	66 **20**	5	Metal framework tower; 13.	
19610 *P 3523.6*	Tai A Chau.	22° 09.4′ N 113° 54.2′ E	**Fl.(4)W.** period 15s fl. 0.4s, ec. 1s fl. 0.4s, ec. 1s fl. 0.4s, ec. 1s fl. 0.4s, ec. 10.4s	98 **30**	9	White concrete tower; 13.	
19611 *P 3523.55*	Zhenxiang Dao.	22° 07.2′ N 113° 50.1′ E	**Fl.W.** period 8s fl. 1s, ec. 7s	69 **21**	5	Metal framework tower; 16.	
19612 *P 3523.58*	Guishan Dao.	22° 07.3′ N 113° 49.4′ E	**Fl.W.** period 4s fl. 1s, ec. 3s	66 **20**	5	Metal framework tower; 20.	
19618 *P 3521.2*	**Guishan Dao.**	22° 08.1′ N 113° 48.8′ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	187 **57**	**18**	White round concrete tower; 49.	
19618.1 *P 3521.19*	-Oil Depot, Shugang Pier.	22° 07.8′ N 113° 48.8′ E	**Q.R.**	30 **9**	4	Red metal column; 16.	
19618.2 *P 3521.185*	-Zhongran, Oil Depot Pier, S.	22° 07.4′ N 113° 48.9′ E	**F.R.**	26 **8**	5	White metal column, red bands; 10.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			CHINA				
19618.25 *P 3521.186*	---N.	22° 07.6′ N 113° 48.7′ E	**F.R.**	26 **8**	5	White metal column, red bands; 10.	
19619 *P 3521.18*	Sichiyan Jiao.	22° 08.6′ N 113° 46.6′ E	**Fl.(2)W.** period 5s	66 **20**	10	ISOLATED DANGER BRB, beacon, topmark; 33.	.
19622 *P 3521.3*	Shilong Jiao.	22° 10.1′ N 113° 47.7′ E	**Fl.W.** period 10s fl. 1.5s, ec. 8.5s	121 **37**	13	White round brick tower; 33.	
19626 *P 3521.35*	**Rongshutou Dao.**	22° 10.8′ N 113° 47.7′ E	**Fl.W.** period 8s fl. 0.5s, ec. 7.5s	181 **55**	**18**	White square masonry structure; 23.	
19627 *P 3521.37*	*GUI SHAN BEI.*	22° 10.9′ N 113° 49.8′ E	**Mo.(A)W.** period 6s			Red hull.	
19628 *P 3521.4*	*MAYOU SHI LIGHTSHIP.*	22° 16.6′ N 113° 48.3′ E	**Fl.W.** period 6s fl. 0.5s, ec. 5.5s		11	Red hull, name painted on sides.	**AIS** (MMSI No 999413095). **Horn:** Mo.(U) 30s.
	RACON		**K(– • –)**				(3cm).
19628.95 *P 3521.43*	Longgu West Fairway, XC1.	22° 17.3′ N 113° 48.8′ E	**Fl.(2)W.** period 5s	16 **5**	5	Metal pile.	
19629 *P 3521.46*	-XC2.	22° 17.3′ N 113° 49.7′ E	**Fl.(2)W.** period 5s	16 **5**	5	Metal pile.	
19640 *P 3416*	**Fortaleza da Guia.**	22° 11.8′ N 113° 33.0′ E	**Fl.(2)W.** period 10s fl. 1s, ec. 2s fl. 1s, ec. 6s	354 **108**	**16**	White round tower, red daymark; 46.	Signals: Typhoon warnings.
19644 *P 3427*	Outer entrance range, front.	22° 11.8′ N 113° 33.3′ E	**F.W.**	46 **14**	5	Black metal structure.	Range lights shown by day when hydrofoils are operating and at night as needed.
19644.1 *F 3427.01*	-Middle, 305° from front.	22° 11.8′ N 113° 33.3′ E	**F.W.**	170 **52**	5	Black metal structure.	
19644.2 *P 3427.1*	-Rear, 440 meters 305° from front.	22° 11.8′ N 113° 33.2′ E	**F.W.**	220 **67**	5	Black metal structure.	
19648 *P 3424*	Beacon No 3, SE of breakwater.	22° 10.7′ N 113° 35.1′ E	**Fl.G.** period 2s fl. 0.3s, ec. 1.7s	26 **8**	3	Green and white concrete tower, green triangular daymark point up; 26.	
19656 *P 3426*	Beacon No 2.	22° 10.6′ N 113° 35.0′ E	**Fl.R.** period 4s fl. 0.3s, ec. 3.7s	26 **8**	3	Concrete structure, red square daymark; 26.	
19658 *P 3427.5*	S. breakwater, DS1.	22° 10.7′ N 113° 34.8′ E	**Fl.Y.** period 3s fl. 0.5s, ec. 2.5s	26 **8**	5	Yellow beacon.	Visible 305°-125°. Breakwater marked by beacons Fl.Y. 3s.
	RACON		**M(– –)**				(3cm).
19660 *P 3427.2*	N. Breakwater, DN1.	22° 10.9′ N 113° 34.8′ E	**Fl.Y.** period 5s	26 **8**	5	Yellow beacon.	Visible 125°-305°. Breakwater marked by beacons Fl.Y. 5s.
19664 *P 3428*	Beacon No 5.	22° 10.9′ N 113° 34.7′ E	**Fl.G.** period 4s fl. 0.4s, ec. 3.6s	26 **8**	3	Green and white concrete tower, green triangular daymark point up; 26.	
19668 *P 3429*	Beacon No 4.	22° 11.0′ N 113° 34.4′ E	**Fl.R.** period 2s fl. 0.5s, ec. 1.5s	26 **8**	3	Concrete structure, piles.	
19672 *P 3430*	Beacon No 7.	22° 11.2′ N 113° 34.2′ E	**Fl.G.** period 3s fl. 0.5s, ec. 2.5s	26 **8**	3	Green and white concrete tower, green triangular daymark point up; 26.	
19676 *P 3432*	Beacon No 6.	22° 11.3′ N 113° 33.8′ E	**Fl.R.** period 2s fl. 0.3s, ec. 1.7s	26 **8**	3	White concrete tower, red bands, red square daymark; 26.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			CHINA				
19680 *P 3432.51*	N. bridge pillar, PN.	22° 11.4′ N 113° 33.8′ E	**Fl.W.** period 2s fl. 0.3s, ec. 1.7s	26 **8**	5	Yellow pillar, black stripes.	**Radar reflector.**
19684 *P 3432.5*	S. bridge pillar, PS.	22° 11.4′ N 113° 33.8′ E	**Fl.W.** period 2.5s fl. 0.5s, ec. 2s	26 **8**	3	Yellow pillar, black stripes.	**Radar reflector.**
19687 *P 3433*	Beacon No 9.	22° 11.5′ N 113° 33.8′ E	**Fl.G.** period 2s fl. 0.3s, ec. 1.7s	26 **8**	2	White concrete pillar, green stripes, green triangular daymark point up; 26.	
19690 *P 3434*	Beacon No 8.	22° 11.5′ N 113° 33.6′ E	**Fl.R.** period 4s fl. 1s, ec. 3s	23 **7**	2	PORT (A) R, structure, topmark; 23.	
19692.1 *P 3449.63*	Warning test platform.	22° 16.2′ N 113° 41.4′ E	**Fl.(2)W.** period 5s	46 **14**	5	ISOLATED DANGER BRB, beacon, topmark.	
19693 *P 3435.4*	Porto Interior Channel, M11.	22° 10.8′ N 113° 33.8′ E	**Fl.(2)G.** period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	30 **9**	3	Green and white column.	
19696 *P 3435*	-M9.	22° 10.8′ N 113° 33.8′ E	**Fl.(2)G.** period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	30 **9**	3	Green and white column.	
19699 *P 3435.6*	-M12.	22° 10.8′ N 113° 33.8′ E	**Fl.(2)R.** period 6s	30 **9**	3	Red and white column.	
19702 *P 3435.2*	-M10.	22° 10.9′ N 113° 33.8′ E	**Fl.(2)R.** period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	30 **9**	3	Red and white column.	
19708 *P 3442*	Pedra d'a Areca, Beacon No 14.	22° 10.5′ N 113° 32.2′ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	26 **8**	3	White four-sided concrete column.	
19717 *P 3448.5*	Coloane Power Station, NE. pier, head, No 31.	22° 08.5′ N 113° 35.0′ E	**Fl.W.** period 4s fl. 0.2s, ec. 3.8s	16 **5**	5	White metal structure.	
19718 *P 3449.57*	Yanshi Jiao.	22° 14.0′ N 113° 36.9′ E	**Fl.(2)W.** period 5s	13 **4**	4	ISOLATED DANGER BRB, beacon, topmark; 7.	
19718.5 *P 3449.4*	Jiuzhou Gang, breakwater, head.	22° 14.2′ N 113° 35.2′ E	**Fl.(3)W.** period 10s	33 **10**	5	White round stone tower; 20.	
19720 *P 3420*	Ponta de Ka-ho, Beacon No 17.	22° 07.8′ N 113° 35.5′ E	**Fl.W.** period 4s fl. 0.5s, ec. 3.5s	157 **48**	12	White column; 20.	
19723 *P 3420.5*	-Ponta de Hac-Sa.	22° 06.8′ N 113° 34.4′ E	**Fl.(2)W.** period 8s	180 **55**	12	Metal structure, concrete base.	
19724 *P 3524.5*	Wong Fa Pi.	22° 14.0′ N 113° 49.8′ E	**Fl.(3)W.** period 15s	22 **7**	5	White column.	
19726 *P 3525.5*	Sha Chau.	22° 20.5′ N 113° 53.4′ E	**Fl.(4)W.** period 10s	93 **28**	10	White concrete structure.	
19727 *P 3525.6*	-	22° 21.0′ N 113° 53.4′ E	**Oc.W.** period 10s	24 **7**	3	White column.	Visible 262°-264°.
19728 *P 3527.66*	Tuen Mun, Typhoon Shelter, W. entrance, S. side.	22° 22.2′ N 113° 58.4′ E	**Fl.R.** period 3s	23 **7**	3	White column; 13.	
19728.2 *P 3527.7*	--W. entrance, N. side.	22° 22.3′ N 113° 58.4′ E	**Fl.G.** period 3s	23 **7**	2	White column, 13.	
19728.4 *P 3527.72*	--E. entrance, S. side.	22° 22.4′ N 113° 58.6′ E	**Fl.R.** period 3s	23 **7**	3	White column; 13.	
19728.6 *P 3527.73*	---N. side.	22° 22.4′ N 113° 58.6′ E	**Fl.G.** period 3s	23 **7**	2	White column; 13.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			CHINA				
19728.8 *P 3527.8*	-Gold Coast Marina, entrance, N. side.	22° 22.0′ N 113° 59.3′ E	**Fl.R.** period 3s	11 **3**	3	White concrete column.	Aero Q.R. mark summits close N and NNE.
19729 *P 3527.82*	--S. side.	22° 21.9′ N 113° 59.4′ E	**Fl.G.** period 3s	11 **3**	3	White concrete column.	Fl.R. and Fl.G. mark interior approach to marina.
19729.2 *P 3527.6*	Tsing Shan Wan, Sewer outfall.	22° 22.0′ N 113° 58.0′ E	**Q.R.**	16 **5**	3	White concrete tripod; 13.	
19729.4 *P 3527.74*	Tuen Mun Castle Peak Bay.	22° 21.8′ N 113° 59.1′ E	**Q.R.**	11 **3**	2	White column; 7.	
19732 *P 3527.9*	Chi Shui-Men, Siu Ho Wan.	22° 18.8′ N 113° 59.6′ E	**Q.W.**	7 **2**	3	N. CARDINAL BY, beacon, topmark.	Aero Q.R. marks summit close E.
19734 *P 3528*	-Luk Keng.	22° 20.0′ N 114° 01.0′ E	**Fl.(2)W.** period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	50 **15**	6	White concrete tower; 13.	Visible 334°-289°30′.
19736 *P 3529*	-Ha Pang.	22° 21.4′ N 114° 01.7′ E	**Oc.W.G.** period 3s lt. 2.3s, ec. 0.7s	26 **8**	W. 11 G. 9	White concrete tower.	W. 305°-265°, G.-305°. Aero Q.R. marks summit close N.
19738 *P 3529.3*	--E.	22° 21.3′ N 114° 01.8′ E	**3 Oc.R.** (vert.) period 8s	46 **14**	2	White framework tower.	Visible 330°-090°. Traffic signals.
19742 *P 3526*	**Lung Kwu Chau.**	22° 22.9′ N 113° 52.7′ E	**Fl.W.** period 5s fl. 0.4s, ec. 4.6s	175 **53**	**15**	White square concrete tower; 13.	
19746 *P 3526.2*	**Lan Kok Tsui.**	22° 24.4′ N 113° 54.3′ E	**Fl.(3)W.** period 10s	430 **131**	**15**	White structure.	
19750 *P 3526.6*	Nim Wan, No 1.	22° 25.3′ N 113° 54.8′ E	**Fl.G.** period 3s	30 **9**	2	Green metal pile.	Channel marked by lighted beacons. **Radar reflector.**
19752 *P 3526.8*	-NE.	22° 25.7′ N 113° 55.3′ E	**Q.R.**	10 **3**	2	White concrete tripod.	
19753 *P 3526.25*	Black Point Power Station.	22° 24.6′ N 113° 54.2′ E	**Q.(9)W.** period 15s	13 **4**	2	W. CARDINAL YBY, beacon, topmark.	
19754 *P 3458*	Chi-Wan Range, front.	22° 28.8′ N 113° 52.8′ E	**Iso.R.** period 4s	128 **39**	5	Gray and white framework tower; 105.	
19754.1 *P 3458.1*	--Rear, 357 meters 355°25′ from front.	22° 29.0′ N 113° 52.8′ E	**Oc.R.** period 5s	157 **48**	5	White concrete structure, white triangular topmark point down; 33.	
19762 *P 3457.4*	Shekou, New Channel Range, front.	22° 28.5′ N 113° 54.6′ E	**Iso.G.** period 2s	46 **14**	2	White fiberglass structure, black stripe, red triangular daymark point up; 43.	
19762.1 *P 3457.41*	-Rear, 036°43′ from front.	22° 28.8′ N 113° 54.8′ E	**Oc.R.** period 5s lt. 4s, ec. 1s	60 **18**	3	White fiberglass structure, red triangular daymark point down; 56.	
19765 *P 3527.1*	Nam Sha Po.	22° 30.7′ N 113° 59.7′ E	**Fl.(2)R.** period 6s	20 **6**	10	PORT (A) R, pole, topmark.	
19766 *P 3527*	Hau Hoi Wan, on dolphin.	22° 28.6′ N 113° 57.7′ E	**Q.R.**	7 **2**	2	Dolphin.	
19768 *P 3526.9*	-Lau Fau.	22° 28.3′ N 113° 56.9′ E	**Fl.W.** period 3s fl. 0.3s, ec. 2.7s	20 **6**	5	White column.	
19778 *P 3459*	Xiya Island.	22° 32.8′ N 113° 49.1′ E	**Fl.(2)W.** period 6s	82 **25**	10	White pile; 26.	Visible 272°-245°.
19779 *P 3452*	**Tonggu Jiao.**	22° 22.5′ N 113° 37.5′ E	**Fl.(2)W.** period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	180 **55**	**18**	White round stone tower, building; 36.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			CHINA				
19800 *P 3526.5*	Neilingding Dao.	22° 25.0′ N 113° 46.9′ E	**Fl.(2)W.** period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	46 **14**	12	White triangular masonry structure, hexagonal base; 36.	
19802 *P 3456.1*	Hengmen Dongshuidao, front, No 2.	22° 25.2′ N 113° 40.8′ E	**F.R.**	85 **26**	9	Black column, white bands, rectangular topmark.	Topmark consists of 4 rectangular LEDs.
19803 *P 3456.11*	-Rear, No 3.	22° 25.9′ N 113° 39.6′ E	**F.R.**	151 **46**	9	Black column, white bands, rectangular topmark.	Topmark consists of 5 rectangular LEDs.
	RACON		**Z(– – • •)**				(3cm).
19804 *P 3456*	Dawang Jiao.	22° 26.1′ N 113° 39.6′ E	**Fl.(2)W.** period 6s	92 **28**	8	White round masonry framework structure; 33.	
19806 *P 3465.451*	Sanqi Barge Pier.	22° 37.6′ N 113° 41.2′ E	**Fl.W.** period 5s	43 **13**	5	Red and white fiberglass tower; 33.	
19808 *P 3465.41*	Nansha Gang, Service Boat Pier.	22° 39.6′ N 113° 40.6′ E	**Q.R.**	36 **11**	5	33.	
19808.1 *P 3465.39*	--S.	22° 40.0′ N 113° 40.4′ E	**Fl.G.** period 4s	33 **10**	5	White column, green bands; 33.	
19808.8 *P 3461.5*	Fanshi Shuidao, No 2.	22° 34.5′ N 113° 47.7′ E	**Fl.(2+1)G.** period 6s	17 **5**	9	STARBOARD (A) G, beacon, topmark.	
19808.9 *P 3462*	-No 3.	22° 36.0′ N 113° 46.7′ E	**Q.(9)W.** period 15s	18 **6**	10	W. CARDINAL YBY, beacon, topmark.	
19809 *P 3464.5*	-No 4.	22° 40.8′ N 113° 44.2′ E	**Fl.(2+1)G.** period 6s	17 **5**	9	PREFERRED CHANNEL (A) GRG, beacon, topmark.	
19809.2 *P 3465*	-No 5.	22° 41.3′ N 113° 43.2′ E	**Q.(9)W.** period 15s	18 **6**	10	W. CARDINAL YBY, beacon, topmark.	
19809.5 *P 3464*	Dachan Shuidao, No 20.	22° 40.5′ N 113° 45.4′ E	**Fl.(2)G.** period 6s	18 **6**	9	STARBOARD (A) G, beacon, topmark.	
19810 *P 3465*	Jiaoyi Sha, S.	22° 41.1′ N 113° 43.2′ E	**Q.(9)W.** period 15s	17 **5**		W. CARDINAL YBY, beacon, topmark.	
19810.3 *P 3465.24*	-No 22.	22° 41.7′ N 113° 43.8′ E	**Fl.(2)R.** period 6s	18 **6**	7	PORT (A) R, beacon, topmark.	
19810.4 *P 3465.25*	-No 21.	22° 42.2′ N 113° 44.4′ E	**Fl.(2)G.** period 6s	18 **6**	9	STARBOARD (A) G, beacon, topmark.	
19810.5 *P 3465.305*	-No 24.	22° 42.8′ N 113° 43.0′ E	**Fl.(2)R.** period 6s	18 **6**	9	PORT (A) R, beacon, topmark.	
19810.6 *P 3465.306*	-No 23.	22° 43.2′ N 113° 42.9′ E	**Fl.(2)G.** period 6s	18 **6**	7	STARBOARD (A) G, beacon, topmark.	
19811.1 *P 3465.307*	-No 26.	22° 43.5′ N 113° 41.6′ E	**Fl.(2)R.** period 6s	18 **6**	7	PORT (A) R, beacon, topmark.	
19811.2 *P 3465.308*	-No 25.	22° 43.6′ N 113° 41.7′ E	**Fl.(2)G.** period 6s	18 **6**	9	STARBOARD (A) G, beacon, topmark.	
19811.4 *P 3465.309*	-No 27.	22° 43.8′ N 113° 40.8′ E	**Fl.(2)G.** period 6s	20 **6**	9	STARBOARD (A) G, beacon, topmark.	
19812 *P 3466*	**Shanban Zhou.**	22° 43.0′ N 113° 39.5′ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	105 **32**	**18**	White square tower, building; 43.	**Horn:** Mo(U) 1 str. ev. 30s.
	RACON		**C(– • – •)**				
19815 *P 3468.1*	Humen Bridge Opening, W. Shanghengdang.	22° 47.1′ N 113° 35.9′ E	**F.G.**		3	Green arrowed daymarks, white square board.	F.R. 3M marks area closed to navigation. Q.Y. 3M mark bridge piers.
	RACON		**M(– –)**				

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			CHINA				
19815.1 *P 3468.2*	-E. Shanghengdang.	22° 47.7′ N 113° 36.7′ E	**F.G.**		3	Green arrowed daymarks, white square board.	F.R. 3M marks area closed to navigation. Fl.(2)R. 6s 3M marks SW. side of channel. Fl.(2)G. 6s 3M marks NE. side of channel. Q.Y. 3M mark bridge piers.
	-RACON		**B(– • • •)**				(3cm).
19820 *P 3473.9*	S. Range, front, 580 meters 189°03′ from common rear.	22° 54.2′ N 113° 34.4′ E	**F.R.**	59 **18**	5	White concrete pile, black stripe; 52.	
19824 *P 3474*	-Nizhou Tou, common rear.	22° 54.6′ N 113° 34.4′ E	**F.R.**	78 **24**	5	Gray concrete pile, black stripe; 82.	
19828 *P 3474.1*	--N. Range, front, 400 meters 318°43′ from common rear.	22° 54.7′ N 113° 34.3′ E	**F.R.**	59 **18**	5	White concrete pile, black stripe; 56.	
19829 *P 3474.6*	La Sha, Oil Products, breakwater, head, No 1.	22° 55.7′ N 113° 33.9′ E	**L.Fl.R.** period 6s	43 **13**	5	Red metal column; 26.	
19829.1 *P 3474.605*	-No 2.	22° 55.9′ N 113° 33.8′ E	**Iso.R.** period 4s	43 **13**	5	Red metal column; 26.	
19832 *P 3476*	Lianshan Range, front.	22° 59.8′ N 113° 30.7′ E	**Iso.R.** period 2s	56 **17**	5	White concrete tower; 49.	
19836 *P 3476.1*	Rear, 400 meters 325°40′ from front.	23° 00.0′ N 113° 30.5′ E	**Oc.R.** period 6s	79 **24**	5	White concrete tower; 75.	
	CANTON RIVER:						
19840 *P 3482*	-Dahao Zhou Range, front.	23° 04.9′ N 113° 28.3′ E	**Fl.W.** period 3s fl. 0.3s, ec. 2.7s	30 **9**	5	White round fiberglass tower; 26.	Tide gauge.
19844 *P 3482.1*	--Rear, 200 meters 132°27′ from front.	23° 04.8′ N 113° 28.4′ E	**Iso.W.** period 2s	33 **10**	5	White round brick tower; 33.	
19848 *P 3483*	-Huangpu Gang Range No 1, front.	23° 05.4′ N 113° 27.8′ E	**Iso.G.** period 6s	33 **10**	5	White round masonry tower; 33.	
19852 *P 3483.1*	--Rear, 180 meters 324°40′ from front.	23° 05.5′ N 113° 27.7′ E	**F.G.**	43 **13**	5	White round masonry tower; 49.	
19856 *P 3483.2*	-Huangpu Gang Range No 2, front.	23° 05.5′ N 113° 27.6′ E	**Iso.G.** period 6s	33 **10**	5	White round brick tower; 33.	
19860 *P 3483.21*	--Rear, 160 meters 312°27′ from front.	23° 05.5′ N 113° 27.5′ E	**F.G.**	46 **14**	5	White round brick tower; 46.	
19864 *P 3490*	-Liyu Gang.	23° 01.9′ N 113° 22.9′ E	**Fl.W.** period 4s	43 **13**	5	White round fiberglass column, red bands; 33.	
19868	-Comus Rock.	22° 12.6′ N 113° 33.2′ E	**Fl.G.** period 4s				
19870 *P 3449.58*	-Jilong Dao, S.	22° 15.4′ N 113° 37.0′ E	**Fl.W.** period 6s	16 **5**	4	White post, red bands; 10.	
19870.1 *P 3449.59*	--N.	22° 15.4′ N 113° 37.0′ E	**Fl.(2)W.** period 6s	16 **5**	4	White post, red bands; 10.	
19872 *P 3490.2*	-Fenshuitou.	23° 02.3′ N 113° 21.5′ E	**Fl.W.** period 6s	43 **13**	4	White fiberglass column, red bands; 33.	
19888 *P 3407.48*	Gaolan Gangqu, pier, S.	21° 52.8′ N 113° 15.1′ E	**F.R.**	13 **4**	5	White column, red bands; 3.	
19900	*Hebao Dao Buoy 1.*	21° 49.8′ N 113° 13.7′ E	**Fl.(2)G.** period 6s			STARBOARD (A) G, pillar, topmark.	
	RACON		**Y(– • – –)**				

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			CHINA				
19980 *P 3407*	**Xiaojin.**	21° 47.8′ N 113° 01.3′ E	**Fl.W.** period 6s fl. 0.5s, ec. 5.5s	276 **84**	**15**	White hexagonal concrete tower.	
	RACON		**O(– – –)**				(3cm).
19984 *P 3406*	**Weijia Dao.**	21° 34.3′ N 112° 47.7′ E	**Fl.W.** period 5s fl. 0.7s, ec. 4.3s	564 **172**	**18**	White round masonry structure; 10.	
	RACON		**K(– • –)**				(3cm).
19984.5 *P 3406.5*	Modou Zhou.	21° 36.1′ N 112° 44.1′ E	**Fl.W.** period 4s	121 **37**	6		
19985 *P 3405.85*	Bijia Zhou.	21° 39.7′ N 112° 33.5′ E	**Fl.(2)W.** period 4s	72 **22**	6	White metal framework tower; 10.	
19986 *P 3405.6*	**Nanpeng Dao.**	21° 32.9′ N 112° 11.0′ E	**Fl.W.** period 9s	626 **191**	**20**	White concrete tower; 39.	Reserve light Fl.W. 8s 13M.
	RACON		**G(– – •)**				(3cm).
19988 *P 3405.5*	Huang-ching.	21° 33.3′ N 112° 06.7′ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	59 **18**	10	White round concrete structure; 33.	
19992 *P 3405*	Hai-ling-shan Tao.	21° 33.6′ N 111° 48.4′ E	**Fl.W.** period 5s fl. 0.2s, ec. 4.8s	145 **44**	12	Round stone masonry tower; 43.	Fishing light.
19993 *P 3404.6*	Qing Zhou.	21° 28.9′ N 111° 27.9′ E	**Fl.(2)W.** period 10s	381 **116**	7	White metal pole; 13.	Fishing light.
19994	*Dazhu Zhou SBM.*	21° 20.9′ N 111° 24.6′ E	**Fl.Y.** period 3s				**Horn.**
	RACON		**X(– • • –)**				(3cm).
19995 *P 3404.9*	Changhuan Zui.	21° 31.9′ N 111° 40.0′ E	**Fl.(3)W.** period 10s	230 **70**	7	White beacon; 43.	
19995.1 *P 3404.3*	Xi'ao Jiao.	21° 24.7′ N 111° 17.2′ E	**Fl.(2)W.** period 5s	20 **6**	3	ISOLATED DANGER BRB, tower, topmark; 23.	
19995.3 *P 3404.2*	Baidan Shi.	21° 24.5′ N 111° 14.9′ E	**Fl.W.** period 4s fl. 0.5s, ec. 3.5s	56 **17**	3	White round masonry tower; 26.	
19996 *P 3404*	**Dafangji.**	21° 23.1′ N 111° 11.2′ E	**Fl.W.** period 6s	453 **138**	**18**	Red round concrete tower; 43.	
	RACON		**Z(– – • •)**				(3cm).
19999 *P 3359.22*	Nayan Jiao.	20° 53.1′ N 110° 36.5′ E	**Q.R.**	20 **6**	4	White metal post, red bands; 13.	
19999.5 *P 3359.18*	Nayan, E.	20° 53.5′ N 110° 37.2′ E	**F.R.**	66 **20**	4	Red metal post; 20.	
20000 *P 3359*	**Nao Chou.**	20° 54.1′ N 110° 36.4′ E	**Fl.W.** period 5s fl. 0.3s, ec. 4.7s	337 **103**	**26**	White round masonry tower; 62.	
20000.5 *P 3359.16*	Tanbei Sha.	20° 54.1′ N 110° 37.4′ E	**Fl.W.** period 3s	59 **18**	4	White metal post, red bands; 13.	
20001 *P 3359.1*	Dingdang Cun.	20° 55.0′ N 110° 38.1′ E	**Q.R.**	43 **13**	4	Red metal post; 20.	
20001.5 *P 3359.225*	-Bohe S. Reef.	20° 50.1′ N 110° 37.1′ E	**Fl.(2)W.** period 5s	13 **4**	4	ISOLATED DANGER BRB, tower, topmark; 13.	
20001.55 *P 3359.275*	-Yingming Cun.	20° 52.1′ N 110° 34.7′ E	**Q.W.**	13 **4**	4	White metal pile, red bands; 13.	
20002 *P 3360.43*	-Haitougong Reef.	20° 56.0′ N 110° 38.3′ E	**Q.W.**	13 **4**	4	White metal pile, red bands; 13.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			CHINA				
20004 *P 3360*	-Doulong Cun N. Range, front.	20° 56.2′ N 110° 37.8′ E	**F.W.**	82 **25**	14	White four-sided pyramidal brick tower; 23.	**Siren:** (about 200 meters NE).
	-RACON		**Z(– – • •)**				
20008 *P 3360.1*	--Rear, 200 meters 270° from front.	20° 56.2′ N 110° 37.7′ E	**Iso.W.** period 6s	131 **40**	14	Black round stone pile, white checkered bands; 85.	
20010 *P 3360.4*	-Doulong Cun S. Range, front.	20° 56.3′ N 110° 37.8′ E	**Oc.W.** period 4s	49 **15**	8	White round concrete tower, black stripe; 43.	
20012 *P 3360.41*	--Rear, 1750 meters 166°57′ from front.	20° 55.4′ N 110° 38.0′ E	**Q.W.**	131 **40**	8	Black hexagonal pyramidal stone tower, white stripes; 56.	
20012.05 *P 3359.72*	Liangwu Cun.	20° 56.7′ N 110° 35.1′ E	**Fl.W.** period 3s	13 **4**	4	White metal pile, red bands; 13.	
20012.1 *P 3360.415*	Naozhou Dao, Tangjing Leishi.	20° 55.5′ N 110° 38.3′ E	**Q.R.**	13 **4**	4	White metal column, red bands; 13.	
20012.12 *P 3359.75*	-Houjiao Cun.	20° 57.0′ N 110° 35.1′ E	**Q.R.**	30 **9**	4	Red metal post; 20.	
20012.14 *P 3359.98*	-Yanlou Cun.	20° 56.6′ N 110° 36.9′ E	**Q.R.**	16 **5**	4	White metal column, red band; 16.	
20012.15 *P 3359.99*	-Doulong Cun.	20° 56.4′ N 110° 37.6′ E	**Fl.W.** period 3s	13 **4**	4	Red metal post; 13.	
20012.3 *P 3359.65*	-Gangtou SW.	20° 56.0′ N 110° 34.6′ E	**Fl.W.** period 5s	20 **6**	4	Red metal post; 20.	
20012.5 *P 3359.62*	-Yanting Cun, No 1.	20° 55.4′ N 110° 34.2′ E	**Q.G.**	13 **4**	4	Green metal post; 13.	
20012.51 *P 3359.63*	--No 2.	20° 55.4′ N 110° 34.4′ E	**Q.R.**	13 **4**	4	Red metal post; 13.	
20012.6 *P 3359.58*	-Zengpeng Cun.	20° 54.5′ N 110° 33.1′ E	**Fl.(2)R.** period 6s	7 **2**	4	Red metal post; 10.	
20012.7 *P 3368.64*	Paisha Qiantan.	20° 54.3′ N 110° 31.3′ E	**Iso.R.** period 4s	13 **4**	4	White metal pile, red bands; 13.	
20012.8	Shenshi bank.	20° 59.7′ N 110° 22.9′ E	**Fl.W.** period 3s	33 **10**	4		
20013 *P 3370*	Lijian Men.	21° 13.9′ N 110° 38.1′ E	**Fl.(3)W.** period 10s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 6.5s		8	White column; 66.	
20013.5 *P 3368.2*	Hou Wan.	20° 58.7′ N 110° 31.6′ E	**Fl.W.** period 3s	30 **9**	4	Red metal post; 20.	
20014 *P 3372.1*	**Longteng Hangdao.**	21° 03.5′ N 110° 33.1′ E	**Dir.W.R.G.** period 4s	135 **41**	**15**		Iso.G. 274°39′-276°06′, Iso.W.-277°33′, Iso.R.-279°.
	RACON		**C(– • – •)**				(3cm).
20016 *P 3368*	Longshui Ling, Range, front.	21° 01.1′ N 110° 32.2′ E	**F.W.**	69 **21**	14	White hexagonal pyramidal stone tower; 36.	
20020 *P 3368.1*	--Rear, about 1088 meters 303°46′ from front.	21° 01.4′ N 110° 31.7′ E	**Fl.(2)W.** period 4s	190 **58**	10	White hexagonal pyramidal stone tower; 36.	
20021 *P 3368.81*	-Houhainan Cun.	21° 02.1′ N 110° 32.7′ E	**Fl.W.** period 5s	33 **10**	4	White metal column, red bands; 26.	
20021.1 *P 3368.82*	-Houhaibei Cun.	21° 02.2′ N 110° 32.7′ E	**Q.W.**	33 **10**	4	Red metal column; 26.	
20022 *P 3378.4*	Nansan Dao, Nanliu Cun.	21° 08.3′ N 110° 35.3′ E	**Fl.W.** period 5s	23 **7**	4	White metal column, red bands; 13.	
20022.5 *P 3378.5*	-Pulutang Cun.	21° 10.2′ N 110° 36.2′ E	**Fl.W.** period 3s	20 **6**	4	White metal column, red bands; 13.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			CHINA				
20023 *P 3378.3*	-Laoliang Cun.	21° 06.9′ N 110° 31.4′ E	**Q.W.**	20 **6**	4	White metal column, red bands; 16.	
	LIN-HAI TAO:						
20024 *P 3374*	-Nansan Dao, Range, front.	21° 05.8′ N 110° 33.7′ E	**Iso.W.** period 6s	62 **19**	7	White hexagonal pyramidal stone tower, black bands; 53.	
20028 *P 3374.1*	---Rear, 1100 meters 325°06′ from front.	21° 06.3′ N 110° 33.4′ E	**F.W.**	102 **31**	10	White hexagonal pyramidal stone tower, black bands; 43.	
20028.5 *P 3378.19*	--Dengta Cun, No 1.	21° 06.1′ N 110° 31.6′ E	**Q.R.**	16 **5**	4	White metal column, red bands; 13.	
20028.55 *P 3378.2*	---No 2.	21° 06.2′ N 110° 31.8′ E	**Fl.W.** period 3s	16 **5**	4	Red metal post; 13.	
20029 *P 3375*	-Donghai Dao.	21° 03.7′ N 110° 35.1′ E	**Fl.(2)W.** period 10s fl. 0.5s, ec. 1s fl. 0.5s, ec. 8s	33 **10**	10	Red hull.	**AIS**(MMSI No 999413031).
	RACON		**G(– – •)**				(3cm).
20032 *P 3378*	-SW. extremity of island Range, front.	21° 05.5′ N 110° 32.5′ E	**Iso.R.** period 4s	69 **21**	7	Concrete structure; 75.	
20036 *P 3378.1*	--Rear, 800 meters 076°47′ from front.	21° 05.6′ N 110° 33.0′ E	**F.R.**	98 **30**	7	Concrete structure; 105.	
20038 *P 3379.92*	-Donghai Dao, Bulk Cargo Pier, No 2.	21° 04.0′ N 110° 29.0′ E	**F.R.**	33 **10**	5	White metal column, red bands; 23.	
20046 *P 3381.18*	-Dongcan, Ferry.	21° 05.7′ N 110° 23.8′ E	**Q.W.**	39 **12**	4	Red metal column; 26.	
20048 *P 3381*	-Dongtoushan Dao Range, front.	21° 06.8′ N 110° 24.8′ E	**F.R.**	121 **37**	7	Red post, white concrete column, red triangular daymark point up; 121.	
20052 *P 3381.1*	--Rear, 250 meters 177°40′ from front.	21° 06.6′ N 110° 24.8′ E	**F.R.**	141 **43**	7	Red post, white concrete column, red triangular daymark point down; 138.	
20053 *P 3381.18*	--Ferry.	21° 06.1′ N 110° 24.4′ E	**Q.W.**	33 **10**	4	Red metal column; 26.	
20054 *P 3381.19*	-New Oil Pier.	21° 08.9′ N 110° 24.4′ E	**Fl.G.** period 2s	46 **14**	5	Fiberglass column; 33.	
20054.1 *P 3381.185*	-Xiashan Bulk, No 1.	21° 08.2′ N 110° 24.3′ E	**Fl.W.** period 3s	39 **12**	5	White metal column, red bands; 10.	
20054.15 *P 3381.188*	--No 2.	21° 08.5′ N 110° 24.3′ E	**Fl.W.** period 5s	52 **16**	5	White metal column, red bands; 3.	
20056 *P 3379*	-Shitou Jiao Range, front.	21° 09.5′ N 110° 23.6′ E	**Iso.R.** period 6s	79 **24**	7	White concrete column, blue triangular daymark point up; 95.	
20060 *P 3379.1*	--Rear, 540 meters 322°16′ from front.	21° 09.7′ N 110° 23.4′ E	**Iso.R.** period 6s	115 **35**	7	White concrete column, blue triangular daymark point down; 138.	Synchronized with front.
20065.1 *P 3381.652*	--Techeng Dao, No 2.	21° 09.9′ N 110° 25.8′ E	**Fl.(2)R.** period 6s	33 **10**	4	Red round column; 23.	
20065.3 *P 3378.35*	-Dijuxia Cun.	21° 08.9′ N 110° 28.5′ E	**Fl.W.** period 3s	26 **8**	4	White metal post, red bands; 20.	
20065.5 *P 3381.68*	-Nansan Dao, Beiyatou Cun.	21° 10.2′ N 110° 26.1′ E	**Fl.W.** period 3s	23 **7**	4	Red metal post; 13.	
20067 *P 3383.5*	-Xianshan, quay.	21° 10.5′ N 110° 24.6′ E	**Iso.R.** period 4s	36 **11**	5	White metal column, red bands; 23.	

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			CHINA				
20067.2 *P 3383.6*	--Berth No 2.	21° 10.8′ N 110° 24.4′ E	**Iso.R.** period 6s	30 **9**	5	White metal column, red bands; 16.	
20068 *P 3383*	-Zhanjang Basin Range, front.	21° 11.1′ N 110° 24.4′ E	**F.G.**	62 **19**	5	Metal framework tower, black triangular daymark point up; 82.	
20072 *P 3383.1*	--Rear, 140 meters 344°57′ from front.	21° 11.1′ N 110° 24.4′ E	**F.G.**	75 **23**	5	Metal framework tower, black triangular daymark point down; 89.	
20076 *P 3382*	-Maxie Range, front.	21° 11.8′ N 110° 25.7′ E	**F.R.**	56 **17**	5	White truncated pyramidal masonry tower, rectangular daymark; 43.	
20080 *P 3382.1*	--Rear, 160 meters 023°10′ from front.	21° 11.9′ N 110° 25.7′ E	**F.R.**	72 **22**	5	White truncated pyramidal masonry tower, rectangular daymark; 59.	
20080.1 *P 3382.15*	--Ferry.	21° 11.9′ N 110° 25.6′ E	**Q.W.**	33 **10**	4	Red metal column; 26.	
20082 *P 3382.3*	-Moyanlou Range, front.	21° 14.3′ N 110° 26.8′ E	**F.G.**	112 **34**	5	White round column, trapezoidal daymark; 98.	
20082.1 *P 3382.31*	--Rear, 380 meters 030°17′ from front.	21° 14.5′ N 110° 26.9′ E	**F.G.**	138 **42**	5	White round column, trapezoidal daymark; 125.	
20082.11 *P 3382.33*	Navy Pier, N.	21° 14.5′ N 110° 25.1′ E	**F.R.**	30 **9**	4	White column, red bands; 20.	
20082.12 *P 3382.32*	-S.	21° 14.4′ N 110° 25.2′ E	**F.R.**	30 **9**	4	White column, red bands; 20.	
20082.2 *P 3382.362*	Haiwan Bridge.	21° 15.1′ N 110° 25.0′ E	**Iso.W.** period 4s		4	Red round daymark, white stripes.	Marks best passing point. Fl.(2)R. 6s 4M and Fl.(2)G. 10s 4M mark width of navigable span.
	RACON		**T(–)**				(3cm).
20083 *P 3382.4*	-Xiahai Range, front.	21° 15.1′ N 110° 24.4′ E	**F.R.**	85 **26**	7	White column, black stripe; 75.	
20083.1 *P 3382.41*	--Rear, 240 meters 199°47′ from front.	21° 15.0′ N 110° 24.4′ E	**F.G.**	112 **34**	7	White column, black stripe; 98.	
20083.2 *P 3382.425*	Diaoshun Pier Basin Range, front.	21° 16.7′ N 110° 24.1′ E	**F.G.**	46 **14**	3	White conical brick pile.	Fishing light. Occasional.
20083.3 *P 3382.426*	-Rear, 440 meters 336°36′ from front.	21° 16.9′ N 110° 24.0′ E	**F.G.**	62 **19**	3	White conical brick pile.	Fishing light. Occasional.
20084 *P 3382.421*	-Diaoshun Dao Range, front.	21° 16.8′ N 110° 23.7′ E	**Iso.R.** period 4s	49 **15**	6	White four-sided stone tower, black stripe; 43.	
20084.1 *P 3382.422*	--Rear, 280 meters 322°31′ from front.	21° 16.9′ N 110° 23.6′ E	**Iso.R.** period 4s	79 **24**	6	White four-sided stone tower, black stripe; 75.	
20087 *P 3320.5*	-Beihai Xingang Range, front.	21° 28.3′ N 109° 04.0′ E	**F.R.**	72 **22**	3	STARBOARD (B) R, beacon, topmark; 75.	
20087.1 *P 3320.51*	--Rear, 340 meters 130° from front.	21° 28.2′ N 109° 04.1′ E	**F.R.**	92 **28**	3	Metal framework tower, triangular daymark point down; 98.	
20088 *P 3321*	Neigang Range, front.	21° 28.8′ N 109° 05.1′ E	**F.R.**	52 **16**	3	Black framework tower, black triangular daymark point up; 46.	
20088.1 *P 3321.1*	--Rear, 150 meters 152°26′ from front.	21° 28.8′ N 109° 05.2′ E	**F.R.**	75 **23**	3	Black framework tower, black triangular daymark point down; 69.	
20092 *P 3320*	**Guantou Ling.**	21° 27.2′ N 109° 03.1′ E	**Fl.W.** period 3s	423 **129**	**18**	White four-sided tower; 23.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			CHINA				
	QINZHOU WAN:						
20093.5 *P 3319.78*	**-Damiaodum.**	21° 35.5′ N 108° 44.5′ E	**Fl.W.** period 4s	128 **39**	**18**	White concrete tower; 69.	Small craft channel on E. side of bay marked by light beacons.
	-RACON		**Q(– – • –)**				(3cm).
20093.55 *P 3316.82*	-Tiaoduo Shi.	21° 33.8′ N 108° 29.1′ E	**Fl.(2)W.** period 6s fl. 0.4s, ec. 1s fl. 0.4s, ec. 4.2s	21 **6**	6	White round stone pile; 33.	Fishing light.
20093.56 *P 3316.8*	-Shabadun.	21° 34.1′ N 108° 29.0′ E	**Fl.W.** period 4s fl. 0.6s, ec. 3.4s	30 **9**	6	White round stone pile.	Fishing light.
20093.6 *P 3319.3*	-Emeiyue Shi.	21° 39.6′ N 108° 34.2′ E	**Fl.(2)W.** period 6s fl. 0.4s, ec. 1s fl. 0.4s, ec. 4.2s	19 **6**	4	White round stone tower; 30.	
20093.65 *P 3319.4*	-Xihaijiang Jiao.	21° 40.8′ N 108° 35.6′ E	**Fl.G.** period 4s	20 **6**	5	White four-sided stone tower, green triangular daymark point up; 20.	
20093.66 *P 3319.5*	-Qingcaitou Dao.	21° 41.7′ N 108° 36.0′ E	**Fl.W.** period 4s fl. 0.4s, ec. 3.6s	82 **25**	8	White concrete column; 46.	
20093.7 *P 3319.5*	-Qinzhou Gang.	21° 42.5′ N 108° 34.9′ E	**Fl.R.** period 4s	20 **6**	3	White four-sided concrete pile, red square daymark; 26.	
20093.8 *P 3319*	-Shatou Shi.	21° 41.2′ N 108° 36.9′ E	**Fl.(2)G.** period 6s	13 **4**	3	Green four-sided concrete column.	
20095 *P 3316.1*	**Bailong Wei.**	21° 30.1′ N 108° 13.1′ E	**Fl.W.** period 4s	295 **90**	**18**	White concrete tower; 69.	
20096 *P 3326*	**Weizhou Dao.**	21° 00.8′ N 109° 05.8′ E	**Fl.W.** period 10s fl. 1s, ec. 9s	318 **97**	**18**	White concrete tower; 72.	
	RACON		**K(– • –)**				(3cm).
20100 *P 3327*	-Xieyang Dao.	20° 54.3′ N 109° 12.4′ E	**Fl.W.** period 4s	50 **15**	5	White wooden tripod; 20.	
20102 *P 3361*	*Zhanjiang Gang lightship.*	20° 56.0′ N 110° 40.4′ E	**Fl.W.** period 6s fl. 0.5s, ec. 5.5s	36 **11**	10	Red hull.	
	RACON		**M(– –)**				(3cm).
20103 *P 3327.4*	Shuiwei Cun.	20° 23.7′ N 109° 52.0′ E	**Q.R.**	13 **4**	4	Red metal post; 16.	
20104 *P 3328*	**-Jiaowei Jiao.**	20° 13.4′ N 109° 55.2′ E	**Fl.W.** period 6s fl. 0.5s, ec. 5.5s	111 **34**	**18**	Concrete tower; 105.	
	-RACON		**B(– • • •)**				(3cm).
20105 *P 3328.5*	Qionghaidian.	20° 15.3′ N 109° 56.9′ E	**Mo.(C)W.R.G.** period 12s	43 **13**	8	White metal pole, red bands, white triangular daymark point up; 43.	
20106 *P 3332*	**Toudun.**	20° 13.9′ N 110° 06.7′ E	**Fl.R.** period 5s fl. 1s, ec. 4s	128 **39**	**15**	White concrete column, black band; 115.	
20107 *P 3333*	Santang.	20° 14.4′ N 110° 10.7′ E	**Fl.(2)W.** period 6s	75 **23**	5	White brick tower; 66.	
20108 *P 3336*	**-Hongkan.**	20° 18.5′ N 110° 23.9′ E	**Fl.W.** period 8s fl. 0.5s, ec. 7.5s	144 **44**	**18**	White round stone tower; 49.	

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			CHINA				
20110 *P 3358.5*	**-Luodou Sha.**	20° 21.9′ N 110° 34.8′ E	**Fl.W.** period 4s	138 **42**	**20**	White round concrete tower; 138.	
	-RACON		**K(– • –)**				(3cm).
20112 *P 3358*	**-Shangouhou (Peterson Pt.).**	20° 25.7′ N 110° 31.0′ E	**Fl.(2)W.** period 6s	65 **20**	**15**	White round brick tower; 20.	
20116 *P 3334*	-Paiwei Jiao.	20° 14.7′ N 110° 16.9′ E	**Fl.W.** period 3s fl. 0.5s, ec. 2.5s	77 **23**	12	Round masonry pile; 26.	
20120 *P 3348.4*	**-Tonggu Zui.**	19° 38.4′ N 111° 02.2′ E	**Fl.(2)W.** period 8s fl. 0.3s, ec. 7.7s	459 **140**	**18**	Hexagonal round concrete tower; 33.	
	-RACON		**K(– • –)**				(3cm).
20122 *P 3348.35*	**Beishi Dao.**	19° 58.9′ N 111° 16.2′ E	**Iso.W.** period 2s	591 **180**	**15**	White hexagonal concrete tower, red bands; 23.	
	RACON		**X(– • • –)**				(3cm).
20124 *P 3348.1*	**Mulan Tou.**	20° 09.6′ N 110° 41.0′ E	**Fl.(2)W.** period 15s	289 **88**	**25**	White round concrete tower; 236.	Reserve light range 20M.
20128 *P 3348.3*	**Baohu Jiao.**	20° 00.1′ N 110° 56.0′ E	**Fl.W.** period 6s fl. 1s, ec. 5s	177 **54**	**18**	White concrete tower; 85.	
	RACON		**C(– • – •)**				(3cm).
20130.5 *P 3348*	Hainan Wan.	20° 06.5′ N 110° 38.8′ E	**Fl.W.** period 4s fl. 0.4s, ec. 3.6s	59 **18**	6	White four-sided column; 33.	
20131 *P 3347.95*	**Baisha Men.**	20° 04.3′ N 110° 18.8′ E	**Fl.W.** period 6s fl. 1s, ec. 5s	256 **78**	**18**	White three-sided concrete tower; 236.	
	RACON		**K(– • –)**				(3cm).
20132 *P 3346*	**Xiuying.**	20° 01.2′ N 110° 16.1′ E	**Fl.(2)W.** period 10s fl. 0.5s, ec. 2.8s fl. 0.5s, ec. 6.2s	131 **40**	**15**	White round metal tower, white building; 79.	
20136 *P 3347*	-Haikou Wan Range, front.	20° 01.4′ N 110° 16.4′ E	**F.R.**	125 **38**	10	White concrete column, black stripe, triangular daymark point up; 102.	
20140 *P 3347.1*	--Rear, 672 meters, 163°08′ from front.	20° 01.0′ N 110° 16.6′ E	**F.R.**	157 **48**	10	White concrete column, black stripe, triangular daymark point down; 95.	
20144 *P 3347.3*	-Breakwater, W. head.	20° 01.7′ N 110° 16.5′ E	**Fl.R.** period 2s fl. 0.5s, ec. 1.5s	36 **11**	9	Round concrete column; 46.	
20145 *P 3343.3*	**Nangang.**	20° 00.2′ N 110° 07.8′ E	**L.Fl.R.** period 5s fl. 2s, ec. 3s	128 **39**	**15**	White concrete tower, black stripe.	
20146 *P 3342.73*	**Yubao Jaio.**	19° 59.5′ N 109° 56.5′ E	**Fl.(3)W.** period 15s	243 **74**	**18**	White three-sided concrete tower, red bands; 177.	
	RACON		**C(– • – •)**				(3cm).
20147 *P 3342.74*	Chengmai Wan, W. shore.	19° 59.3′ N 109° 56.8′ E	**Mo.(C)W.R.G.** period 12s	112 **34**	8	White metal pole, red bands, white triangular daymark point up; 59.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			CHINA				
	HAI NAN TAO:						
20148 *P 3342*	**-Lingao.**	20° 00.6′ N 109° 42.7′ E	**Fl.(3)+L.Fl.W.** period 27s fl. 1s, ec. 3.5s fl. 1s, ec. 3.5s fl. 1s, ec. 7.5s fl. 2s, ec. 7.5s	65 **20**	**15**	White metal framework tower, red bands; 69.	The lighthouse should be passed at a distance of not less than 2 miles.
	-RACON		**K(– • –)**				(3cm).
	HAINAN DAO:						
20151 *P 3341*	-Lingao Wind Tower.	20° 08.9′ N 109° 29.3′ E	**Mo.(C)Y.** period 12s	56 **17**	8	Three-sided metal framework tower.	
20152 *P 3339*	**-Bingma Jiao.**	19° 53.5′ N 109° 15.7′ E	**Fl.W.** period 6s	233 **71**	**22**	White hexagonal concrete tower, red stripes; 135.	Reserve light range 15M.
	-RACON		**O(– – –)**				(3cm).
20153 *P 3338.9*	-Shenjian Oil Pier.	19° 47.7′ N 109° 08.4′ E	**Fl.W.** period 2s fl. 0.5s, ec. 1.5s	98 **30**	10	Silver and white metal framework tower.	Fog signal.
	-RACON		**C(– • – •)**				(3cm).
20156 *P 3338.4*	**-Guanyin Jiao.**	19° 34.7′ N 109° 00.5′ E	**Fl.(3)W.** period 9s	197 **60**	**18**	White square stone tower; 82.	
	-RACON		**X(– • • –)**				(3cm).
20157 *P 3338.34*	-Haitou.	19° 31.3′ N 108° 56.5′ E	**Fl.(2)W.** period 6s fl. 0.3s, ec. 1s fl. 0.3s, ec. 4.4s	30 **9**	4	White concrete tower; 36.	
20160 *P 3338.2*	**-Junbi Jiao.**	19° 21.9′ N 108° 41.1′ E	**Fl.W.** period 8s fl. 0.5s, ec. 7.5s	315 **96**	**20**	White hexagonal concrete tower; 26.	
	-RACON		**K(– • –)**				(3cm).
20162 *P 3337.89*	**-Sigeng Sha Lt Ho.**	19° 11.7′ N 108° 36.3′ E	**Fl.(2)W.** period 6s	102 **31**	**15**	White concrete tower; 112.	
20163 *P 3337.85*	-Dongfang Wind Tower.	19° 11.1′ N 108° 32.3′ E	**Mo.(C)Y.** period 12s	52 **16**	8	Three-sided metal framework tower.	
20164 *P 3337*	**-Yulin Jiao.**	19° 06.0′ N 108° 36.8′ E	**Fl.(2)W.** period 6s fl. 0.3s, ec. 0.9s fl. 0.3s, ec. 4.5s	203 **62**	**18**	Blue concrete column; 62.	
	-RACON		**C(– • – •)**				(3cm).
20168 *P 3337.6*	-Basuo Gang Range, front.	19° 06.4′ N 108° 37.9′ E	**F.R.**	69 **21**	6	White square concrete column, black stripe, triangular daymark point up; 56.	Reserve light Fl.R. 3s.
20172 *P 3337.61*	--Rear, 260 meters 089°03′ from front.	19° 06.4′ N 108° 38.1′ E	**F.R.**	85 **26**	6	White square concrete column, black stripe, triangular daymark point down; 72.	
20176 *P 3337.1*	-N. breakwater, head.	19° 06.4′ N 108° 37.2′ E	**Fl.R.** period 3s fl. 1s, ec. 2s	30 **9**	8	Red round concrete pile; 30.	
20180 *P 3337.3*	-W. breakwater, head.	19° 06.3′ N 108° 37.2′ E	**Fl.G.** period 3s fl. 1s, ec. 2s	31 **9**	8	Green round concrete pile; 30.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			CHINA				
20184 *P 3357.5*	**-Ganen Jiao.**	18° 50.5′ N 108° 38.2′ E	**Fl.W.** period 6s fl. 0.5s, ec. 5.5s	154 **47**	**18**	Round concrete tower, red and white checkered bands; 138.	
	-RACON		**Y(– • – –)**				(3cm).
20188 *P 3357*	**-Yingge Zui.**	18° 30.4′ N 108° 41.3′ E	**Fl.W.** period 10s fl. 0.5s, ec. 9.5s	131 **40**	**22**	White round concrete tower; 89.	**AIS** (MMSI No 004133806).
	-RACON		**O(– – –)**				(3cm).
20192 *P 3356*	**-Xigu Dao.**	18° 19.4′ N 108° 57.2′ E	**Fl.W.** period 6s fl. 0.3s, ec. 5.7s	292 **89**	**18**	White round masonry tower; 49.	
	-RACON		**K(• – •)**				(3cm).
20193 *P 9584*	-South Hainan Dao Gas Platform.	17° 30.7′ N 109° 01.4′ E	**Mo.(U)R.** period 15s		10		**Horn.**
			F.R.				
20194 *P 3350*	**-Ximao Zhou.**	18° 13.8′ N 109° 22.1′ E	**Fl.W.** period 3s fl. 0.3s, ec. 2.7s	450 **137**	**18**	White concrete pile; 46.	**AIS** (MMSI No 004133903).
20194.5 *P 3350.2*	-Matou.	18° 14.5′ N 109° 22.4′ E	**Fl.(2)G.** period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	39 **12**	10	White metal column, red bands; 36.	
20194.6 *P 3350.4*	**-Yazhou Wan.**	18° 18.1′ N 109° 08.9′ E	**Fl.(2)W.** period 6s	115 **35**	**15**	White concrete column; 112.	
20194.7 *P 3352*	-Sanya Jiao.	18° 12.5′ N 109° 28.3′ E	**Fl.(3)W.** period 9s	52 **16**	10		
20195 *P 3350.5*	-Baipai.	18° 14.3′ N 109° 28.9′ E	**Fl.W.** period 3s fl. 0.3s, ec. 2.7s	52 **16**	10	White round concrete structure; 36.	
20195.5 *P 3351*	-San Ya Range, front.	18° 14.3′ N 109° 29.9′ E	**F.R.**	85 **26**	6	Octagonal concrete tower, black stripe, red triangular daymark point up; 59.	
20195.51 *P 3351.1*	--Rear, 290 meters 071°30′ from front.	18° 14.3′ N 109° 30.0′ E	**F.R.**	108 **33**	6	White metal tower, red triangular daymark point down; 95.	
20196 *P 3349*	**-Jinmu Jiao.**	18° 09.6′ N 109° 34.4′ E	**Fl.W.** period 10s	236 **72**	**22**	White round concrete tower; 59.	Reserve light range 15M.
	-RACON		**O(– – –)**				(3cm).
20198 *P 3348.93*	**-Dongzhou Dao.**	18° 11.1′ N 109° 41.8′ E	**Fl.W.** period 5s fl. 0.3s, ec. 4.7s	404 **123**	**18**	White concrete column; 43.	
20199 *P 3348.92*	-Houhai.	18° 16.7′ N 109° 43.5′ E	**Iso.R.** period 2s	39 **12**	10	Red metal column; 36.	
20200 *P 3348.8*	**-Linshui Jiao.**	18° 23.3′ N 110° 02.9′ E	**Fl.(3)W.** period 20s fl. 0.5s, ec. 3s fl. 0.5s, ec. 3s fl. 0.5s, ec. 12.5s	492 **150**	**18**	White octagonal concrete tower; 33.	
	-RACON		**K(– • –)**				(3cm).
20203 *P 3348.65*	-Niuling.	18° 35.3′ N 110° 10.7′ E	**Iso.R.** period 2s	33 **10**	10	Red metal column; 30.	
20204 *P 3348.6*	**-Dazhou Dao.**	18° 39.7′ N 110° 29.0′ E	**Fl.W.** period 5s fl. 0.3s, ec. 4.7s	574 **175**	**15**	White round concrete tower; 39.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			CHINA				
20208 *P 3348.5*	**-Bai'an Dao.**	18° 48.6′ N 110° 34.2′ E	**Fl.(2)W.** period 15s fl. 0.3s, ec. 4.7s fl. 0.3s, ec. 9.7s	265 **81**	**18**	White four-sided concrete tower, red stripes; 39.	
	-RACON		**K(– • –)**				(3cm).
20212 *P 3348.46*	**-Boao**.	19° 10.1′ N 110° 35.2′ E	**Fl.(3)W.** period 24s fl. 0.3s, ec. 3.7s fl. 0.3s, ec. 3.7s fl. 0.3s, ec. 15.7s	266 **81**	**22**	White concrete column; 246.	
	-RACON		**Y(– • – –)**				(3cm).
20212.5 *P 3348.44*	-Fengjia Wan.	19° 24.4′ N 110° 44.1′ E	**Fl.W.** period 3s fl. 0.5s, ec. 2.5s	36 **11**	10	White metal column; 30.	
20212.6 *P 3348.43*	**-Qinglan Gang Kou.**	19° 31.9′ N 110° 50.7′ E	**Fl.(2)W.** period 10s fl. 1s, ec. 1s fl. 1s, ec. 7s	85 **26**	**15**	White round stone tower; 62.	
20213 *P 3316.3*	Sanya Shi.	21° 30.8′ N 108° 20.2′ E	**Fl.(2)W.** period 5s	36 **11**	8	ISOLATED DANGER BRB, column, topmark; 43.	

Section 12

Vietnam, Gulf of Thailand and South China Sea

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			VIETNAM				
20213.5	**Dao Tran.**	21° 14.2′ N 107° 57.5′ E	**Fl.(4)W.** period 15s	659 **201**	**28**	Yellow square tower, dwelling; 59.	
20213.8 *F 3314.8*	**Dao Co To.**	21° 00.0′ N 107° 45.4′ E	**Fl.(2+1)W.** period 12s	381 **116**	**15**	Yellow quadrangular concrete tower, building; 52.	
20214 *F 3306*	**Le Cancrelat.**	20° 49.5′ N 107° 17.7′ E	**F.W.**		**20**	White tower, red lantern; 16.	
	PASSE DE LA PEROUSSE:						
20214.1 *F 3307*	-Islet.	20° 52.4′ N 107° 17.3′ E	**It.**				
20214.2 *F 3309*	-Ile Rousse.	20° 56.2′ N 107° 18.6′ E	**It.**				
20214.3 *F 3310*	-L'Abille.	20° 57.9′ N 107° 20.8′ E	**Fl.W.** period 4s				
20214.4 *F 3312*	-Cap Pha Entrance Range, front.	21° 00.3′ N 107° 22.5′ E	**F.W.**	26 **8**	8	White square tower, black bands; 39	Visible 025°-045°. Occasional.
20214.5 *F 3312.1*	--Rear, 816 meters 035° from front.	21° 00.6′ N 107° 22.8′ E	**F.W.**	39 **12**	12	White square tower, black bands; 52	Visible 025°-045°. Occasional.
20214.6 *F 3313*	-Range, front.	21° 01.4′ N 107° 22.6′ E	**F.R.**	26 **8**	3	White square tower, black bands; 49.	Visible 008°-028°. Occasional.
20214.7 *F 3313.1*	--Rear, 650 meters 018° from front.	21° 01.7′ N 107° 22.8′ E	**F.R.**	39 **12**	14	White square tower, black bands.	Visible 008°-028°. Occasional.
20214.8 *F 3314*	-Range, front.	21° 02.0′ N 107° 22.4′ E	**F.G.**	42 **13**	3	White square tower, black bands; 62.	Occasional.
20214.9 *F 3314.1*	--Rear, 50 meters 357°30′ from front.	21° 02.0′ N 107° 22.4′ E	**F.G.**	56 **17**	5	White wall; 7.	Occasional.
20215 *P 3316*	**Baisu Yan.**	21° 23.3′ N 108° 12.4′ E	**Fl.W.** period 4s	75 **23**	**18**	White concrete column; 62.	
	RACON		**B(– • • •)**				(3cm).
20215.5 *F 3306.5*	Dao Ha Mai.	20° 43.1′ N 107° 27.2′ E	**Fl.(3)W.** period 10s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 5s	594 **181**	12	Yellow quadrangular house; 36.	
20216 *F 3232*	**Xuy Nong Chao.**	20° 37.3′ N 107° 09.6′ E	**Fl.(3)W.** period 20s	361 **110**	**27**	Gray tower, dwelling; 98.	
	RACON		**C(– • – •)**				(3 & 10cm).
20216.5 *F 3315*	**Dao Vinh Thu'c.**	21° 23.8′ N 107° 59.5′ E	**Fl.W.** period 5s	279 **85**	**21**	White concrete tower; 59.	
	CHENAL DE L'HAMELIN:						
20224 *F 3296*	-Ile de l'Index, E. side.	20° 52.3′ N 107° 07.1′ E	**Fl.R.** period 2s			White pile beacon, red band.	
	CUA NAM TRIEU:						
20244	*-Entrance Buoy O.*	20° 42.0′ N 106° 56.0′ E	**Fl.W.** period 6s			Red buoy.	Pilot station.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			VIETNAM				
	DINH VU CUT:						
20265 *F 3268*	-E. entrance, N. side.	20° 50.9′ N 106° 45.8′ E	**Fl.W.** period 3s			White column, black base.	
20265.1 *F 3267*	--S. side.	20° 50.8′ N 106° 45.8′ E	**Fl.R.** period 3s			Red beacon.	
20265.5 *F 3269*	-W. entrance, N. side.	20° 51.2′ N 106° 45.1′ E	**Fl.W.** period 3s			White beacon, platform, piles.	Channel marked by S. Cardinal marks.
20266 *F 3282*	Song Cua Cam.	20° 52.7′ N 106° 42.3′ E	**Fl.G.** period 3s			Green beacon, green triangular daymark point up.	
20268 *F 3236*	**Hon Dau.**	20° 40.0′ N 106° 49.0′ E	**Fl.(2)W.** period 15s	207 **63**	**22**	Blue and gray octagonal tower, white and yellow building; 75.	
20270 *F 3235*	**Diem Dien.**	20° 33.6′ N 106° 34.3′ E	**Fl.W.** period 5s	85 **26**	**18**	White and gray round concrete tower; 72.	
20272 *F 3234*	Cua Ba Lat.	20° 20.5′ N 106° 38.5′ E	**Fl.W.** period 4s		12		
20272.5 *F 3233*	**Ba Lat.**	20° 15.4′ N 106° 35.8′ E	**Fl.(3+1)W.** period 20s fl. 0.1s, ec. 3.2s fl. 0.1s, ec. 3.2s fl. 0.2s, ec. 6.5s fl. 0.2s, ec. 6.5s	121 **37**	**18**	Gray tower, yellow dwelling; 112.	**Radiobeacon** about 3 miles NNW.
	RACON		**M(– –)**		13		
20272.8 *F 3229*	**Quat Lam.**	20° 11.1′ N 106° 21.5′ E	**Fl.W.** period 4s	85 **26**	**15**	Red octagonal concrete tower, orange bands, yellow building; 72.	
20272.9 *F 3228*	Lach Giang.	20° 00.2′ N 106° 10.9′ E	**Fl.(2+1)W.** period 10s	69 **21**	14	White round concrete tower with red bands; 56.	
20273 *F 3230*	**Dao Bach Long Vi.**	20° 08.0′ N 107° 43.4′ E	**Fl.(2)W.** period 10s	262 **80**	**26**	Gray octagonal tower, yellow dwelling; 75.	**Horn:** Mo.(U) ev. 12s.
	RACON		**G(– – •)** period 60s				(3 & 10cm).
20274 *F 3225*	**Hon Me.**	19° 21.8′ N 105° 56.0′ E	**Fl.(2+1)W.** period 15s	505 **154**	**21**	Gray concrete tower; 59.	
20275 *F 3224*	**Dao Bien Son.**	19° 20.5′ N 105° 49.4′ E	**Fl.W.** period 5s	105 **32**	**16**	Black metal framework tower, yellow building; 36.	
20276 *F 3220*	**Vinh River.**	18° 45.9′ N 105° 45.3′ E	**Fl.(3)W.** period 15s	82 **25**	**15**	White tower; 82.	
20276.1 *F 3219.5*	Hon Matt.	18° 47.6′ N 105° 57.8′ E	**Fl.(2+1)W.** period 10s	663 **202**	12	Yellow round concrete tower; 39.	Visible 179°-171°.
20276.2 *F 3219.3*	**Mui Lo.**	18° 28.2′ N 105° 56.3′ E	**Fl.(2)W.** period 6s	295 **90**	**16**	Yellow square concrete tower, building; 43.	
20276.3 *F 3219.2*	**Cua Nhuong.**	18° 15.8′ N 106° 07.5′ E	**Fl.W.** period 6s	115 **35**	**15**	White round concrete tower, red bands; 49.	
20276.5 *F 3218.5*	**Cua Giang.**	17° 42.1′ N 106° 29.3′ E	**Fl.W.** period 16s	66 **20**	**15**	Gray round concrete tower; 66.	
20276.8 *F 3218.25*	**Hon Gio.**	17° 10.0′ N 107° 20.5′ E	**Fl.(3)W.** period 15s	249 **76**	**22**	Yellow round concrete tower, building; 79.	
20276.9 *F 3218.2*	**Mui Lai.**	17° 05.0′ N 107° 06.8′ E	**Fl.(2)W.** period 10s	121 **37**	**18**	Gray quadrangular tower, building; 39.	Visible 130°-340°.
20276.92 *F 3218*	Cua Tung.	17° 01.3′ N 107° 06.7′ E	**Fl.(3+1)W.** period 20s	144 **44**	12	White round concrete tower, black bands; 89.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			VIETNAM				
20277 *F 3216*	Cua Viet.	16° 53.9′ N 107° 12.0′ E	**Fl.(2)W.** period 6s	72 **22**	13	Gray tower, yellow dwelling; 72.	
20278 *F 3213*	Thai Duong Thuong.	16° 34.4′ N 107° 37.0′ E	**Fl.(3)W.** period 10s	121 **37**	12	Gray metal framework tower; 112.	
20279 *F 3212*	Mui Chon May Dong.	16° 20.3′ N 108° 01.0′ E	**Fl.W.** period 5s fl. 1s, ec. 4s	177 **54**	12	Red and white tower, yellow building; 46.	
20279.5 *F 3211.5*	Hon Son Cha.	16° 13.0′ N 108° 12.3′ E	**Fl.(2+1)W.** period 6s	781 **238**	12	Blue tower; 52.	
			SOUTH CHINA SEA				
	PARACEL ISLANDS:						
20280 *P 3197.5*	-Woody Island.	16° 50.0′ N 112° 19.9′ E	**Fl.(3)W.** period 9s fl. 0.3s, ec. 1s fl. 0.3s, ec. 1s fl. 0.3s, ec. 6.1s	66 **20**	13	White round structure; 6.	Occasional.
20284 *P 3199.5*	**-Bombay Reef.**	16° 01.6′ N 112° 26.7′ E	**Fl.W.** period 4s	79 **24**	**15**	White round concrete tower; 72.	
20288 *P 3196*	**-North Reef.**	17° 03.9′ N 111° 28.1′ E	**Fl.(2)W.** period 6s	75 **23**	**15**	White round concrete tower; 72.	
	NORTH DANGER REEF:						
20289 *F 2825*	-Northeast Cay.	11° 27.3′ N 114° 20.9′ E	**Fl.(2)R.** period 10s	23 **7**	5		
20289.2 *F 2824.5*	**-Southwest Cay.**	11° 25.9′ N 114° 19.4′ E	**Fl.W.** period 15s	118 **36**	**21**	Gray round masonry tower; 125.	
20289.6 *F 2824*	Thitu (Pagasa) Island.	11° 03.3′ N 114° 17.0′ E	**Fl.W.** period 5s			Metal structure.	
20289.7 *F 2823.2*	**Sin Cowe Island.**	9° 52.4′ N 114° 19.2′ E	**Fl.(2+1)R.** period 15s	82 **25**	**20**	Yellow square tower, balcony, red and yellow square building; 75.	
	RACON		**T(–)**				(3 & 10cm).
20289.8 *F 2825.17*	**Yongshu Jiao Reef.**	9° 33.3′ N 112° 54.1′ E	**Fl.W.** period 4s fl. 0.5s, ec. 3.5s	95 **29**	**20**	White octagonal concrete tower; 105.	
	SPRATLEY ISLANDS:						
20290 *F 2825.1*	**-Ladd Reef.**	8° 40.0′ N 111° 39.8′ E	**Fl.W.** period 5s	131 **40**	**15**	White metal framework tower, red bands, black piles; 138.	
20290.1 *F 2825.15*	**-West Reef.**	8° 50.7′ N 112° 11.7′ E	**Fl.(3)W.** period 10s	72 **22**	**15**	Grey round masonry tower, building; 66.	
20290.11 *F 2825.16*	**-Cuarteron Reef.**	8° 52.1′ N 112° 49.9′ E	**Fl.W.** period 10s	180 **55**	**22**	White concrete tower; 164.	
20290.12 *F 2823.21*	**-Johnson Reef**, S.	9° 42.9′ N 114° 17.2′ E	**Fl.W.** period 8s	180 **55**	**22**	Red and white concrete column; 164.	
20290.2 *F 2825.197*	Prince of Wales Bank.	8° 09.4′ N 110° 35.7′ E	**Fl.W.** period 5s	75 **23**	12	White framework tower, red band.	
20290.4 *F 2825.196*	Alexandra Bank.	8° 01.9′ N 110° 37.0′ E	**Fl.(2+1)W.** period 10s	75 **23**	12	White framework tower, red band.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			SOUTH CHINA SEA				
20290.6 *F 2825.19*	Rifleman Bank.	7° 52.2′ N 111° 44.5′ E	**Fl.(3+1)W.** period 12s	72 **22**	12	Red and white tower, cabin platform, piles; 72.	
20290.8 *F 2825.18*	**Amboyna Cay.**	7° 53.5′ N 112° 55.3′ E	**Fl.(2)W.** period 10s	72 **22**	**15**	Grey round masonry tower, building; 82.	
	RACON		**A(• –)**				
20291 *F 2825.195*	Prince Consort Bank.	7° 48.8′ N 109° 56.9′ E	**Fl.(2)W.** period 8s	72 **22**	12	Platform.	
20291.2 *F 2825.194*	Grainger Bank.	7° 48.8′ N 110° 28.4′ E	**Fl.(3)W.** period 10s	75 **23**	12	White framework tower, red band.	
20291.3 *F 9534*	Lan Tay.	7° 34.4′ N 108° 52.0′ E	**Mo.(U)W.** period 15s			Platform.	
	RACON		**T(–)**				(10cm).
	VANGUARD BANK:						
20291.4 *F 2825.192*	-Tu-Chin A.	7° 33.0′ N 109° 42.0′ E	**Fl.(2)W.** period 13s	72 **22**	12	Cabin platform, piles.	
20291.6 *F 2825.193*	-Tu-Chin B.	7° 33.2′ N 109° 48.0′ E	**Fl.(3)W.** period 8s	72 **22**	12	Cabin platform, piles.	
			VIETNAM				
	VUNG DA NANG:						
20292 *F 3204*	**-Mui Da Nang.**	16° 08.4′ N 108° 19.3′ E	**Fl.(2)W.** period 10s	518 **158**	**23**	White round concrete tower, yellow band; 30.	Visible 119°-325°.
20296 *F 3206*	-Da Nang, N. Fort Point.	16° 07.3′ N 108° 12.8′ E	**Fl.W.** period 3s	138 **42**	5	Tower; 16.	
20312 *F 3209*	-Beacon No 1.	16° 06.5′ N 108° 13.2′ E	**Fl.W.** period 3s		7	Green pile beacon, white bands.	Fl.G. 3s on S. head.
20316 *F 3211*	-Breakwater, head.	16° 05.6′ N 108° 13.4′ E	**Fl.R.** period 3s			Red pile beacon.	
20316.5 *F 3203*	Cua Dai.	15° 52.6′ N 108° 23.4′ E	**Fl.(3+1)W.** period 15s	82 **25**	12	White metal framework tower, black bands; 75.	
20317 *F 3202*	**Vung An Hoa.**	15° 28.9′ N 108° 41.3′ E	**Fl.(2+1)W.** period 12s	82 **25**	**15**	White round concrete tower, red bands, building; 62.	
20318 *F 3203.2*	**Cu Lao Cham.**	15° 57.4′ N 108° 32.2′ E	**Fl.(3+1)W.** period 16s	420 **128**	**20**	Yellow square tower, yellow building; 39.	Visible 124°-357°.
20318.1 *F 3203.3*	-Tian Hep.	15° 57.5′ N 108° 30.2′ E	**Fl.W.** period 5s	138 **42**	12	White metal framework tower; 36.	Visible 335°-077°.
20319 *F 3200*	**Mui Vian Ka.**	15° 25.5′ N 108° 47.9′ E	**Fl.(3)W.** period 10s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 6.5s	108 **33**	12	White round concrete tower, red bands, yellow building; 46.	
20320 *F 3184*	**Cu Lao Re.**	15° 23.2′ N 109° 08.6′ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	164 **50**	**15**	Gray round concrete tower; 148.	Visible 107°-057°.
20320.2 *F 3184.2*	-Reef.	15° 22.1′ N 109° 09.0′ E	**Fl.(3+1)W.** period 15s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 3.5s fl. 0.5s, ec. 6.5s	36 **11**	12	White round concrete tower, red bands; 33.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			VIETNAM				
20321 *F 3181*	Mui Ba Lang An.	15° 14.5′ N 108° 56.0′ E	**Fl.(2)W.** period 6s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 3.5s	118 **36**	12	Beacon, yellow building; 26.	
20321.2 *F 3180*	An Ky.	15° 12.4′ N 108° 55.1′ E	**Fl.(3)W.** period 10s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 6.5s	49 **15**	12	White round concrete tower, red bands; 43.	
20323 *F 3178*	**Cap Sa Hoi.**	14° 40.4′ N 109° 04.5′ E	**Fl.(2)W.** period 10s	285 **87**	**20**	Beacon, yellow house; 33.	
20324 *F 3176*	Vung Moi.	14° 15.0′ N 109° 11.5′ E	**Iso.W.** period 7s	167 **51**	11	White house; 18.	Visible 162°-338°.
	QUI NHON HARBOR:						
20332 *F 3162*	**-Presqu'ile de Phuoc Moi,** S. point.	13° 45.7′ N 109° 15.1′ E	**Fl.(2+1)W.** period 15s	170 **52**	**18**	White round concrete tower; 59.	
20364 *F 3158*	**Phuoc Chau (Ganbir).**	13° 36.9′ N 109° 21.6′ E	**Fl.(3+1)W.** period 12s	387 **118**	**27**	White concrete tower, black band, two galleries; 52.	
20368 *F 3154*	**Cap Varella.**	12° 53.8′ N 109° 27.4′ E	**Fl.(3)W.** period 15s	361 **110**	**16**	Gray masonry tower, yellow top; 85.	
20372 *F 3148*	**Hon Tre (Mui Rachtrang).**	12° 11.7′ N 109° 20.1′ E	**Fl.(3)W.** period 10s	335 **102**	**26**	White round concrete tower, black bands; 52.	Difficult to distinguish during day due to white two-story building in proximity.
20376 *F 3150*	Mui Chut, S. of Baie de Nha Trang.	12° 12.6′ N 109° 13.0′ E	**Fl.(2)W.** period 7s	138 **42**	9	Tower, pink house; 49.	
	VINH CAM RANH:						
20384 *F 3134*	-Hon Chut, NE. end.	11° 47.0′ N 109° 13.3′ E	**Fl.W.** period 5s	194 **59**	10	White masonry tower, yellow building; 52.	
20386 *F 3139*	-Range, common front.	11° 55.4′ N 109° 11.4′ E	**Oc.W.**				
20386.1 *F 3138.9*	--Rear, 300 meters 015° from front.	11° 55.6′ N 109° 11.4′ E	**Q.R.**				
20386.2 *F 3139.1*	--Rear, 200 meters 260° from front.	11° 55.4′ N 109° 11.3′ E	**Q.G.**				
20388 *F 3138*	-Pointe Bai Sau.	11° 54.6′ N 109° 12.3′ E	**Fl.R.** period 4s	28 **9**	4	White conical tower, black bands; 25.	
20392 *F 3137*	-Ammo Channel No 1.	11° 54.6′ N 109° 11.2′ E	**Fl.W.** period 2.5s	15 **5**	4		
20396 *F 3137.2*	--No 2.	11° 54.9′ N 109° 11.2′ E	**Fl.R.** period 4s	15 **5**	2		
20397 *F 3137.4*	--No 3.	11° 55.2′ N 109° 11.4′ E	**Fl.G.** period 4s	15 **5**	3		
20400 *F 3137.8*	--No 8.	11° 55.5′ N 109° 11.9′ E	**Fl.R.** period 4s	15 **5**	2		
20404 *F 3122*	**Mui Dinh.**	11° 21.6′ N 109° 00.9′ E	**Fl.(2+1)W.** period 20s	610 **186**	**26**	Four-sided granite tower, white top; 52.	
20406 *F 3120*	**Dao Phu Qui.**	10° 32.3′ N 108° 56.0′ E	**Fl.(2)W.** period 15s	407 **124**	**32**	Gray tower, yellow building; 66.	
	RACON		**O(– – –)**				
20408 *F 3118*	Phan Thiet.	10° 55.1′ N 108° 06.6′ E	**F.G.**	65 **20**	6	Metal framework tower; 23.	Visible 055°-235°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			VIETNAM				
20412 *F 3116*	**Mui Ke Ga.**	10° 41.6′ N 107° 59.4′ E	**Fl.(3+1)W.** period 20s	72 **22**	**18**	Hexagonal granite tower; 69.	
20416 *F 3066*	**Mui Vung Tau.**	10° 20.0′ N 107° 04.7′ E	**Fl.(2)W.** period 12s	633 **193**	**23**	White masonry tower; 59.	
	RACON		**B(– • • •)**				
20428 *F 3070*	-Mui do Cao Trang.	10° 21.4′ N 107° 03.6′ E	**Fl.(3)G.** period 10s	66 **20**	6	White square tower, black bands, green top; 56.	Visible 010°-175°.
20432 *F 3076*	-Pointe Ganh Rai.	10° 22.9′ N 107° 03.4′ E	**Fl.(2)G.** period 7s		6	White beacon, black bands.	
20436 *F 3078*	-Vung Tau Range, front.	10° 23.7′ N 107° 05.3′ E	**Q.W.**			White beacon, red stripes.	
20440 *F 3078.1*	--Rear, about 997 meters 096° from front.	10° 23.6′ N 107° 05.7′ E	**Q.W.**			White beacon, red stripes.	
20444 *F 3082*	-Can Gio.	10° 24.1′ N 107° 00.8′ E	**Fl.W.** period 5s	72 **22**	12	White tower, octagonal hut, red roof, piles; 72.	
20446 *F 3083*	-Song Nga.	10° 27.2′ N 106° 56.0′ E	**Fl.W.R.G.**			White framework beacon.	
20448 *F 3084*	-Ba Yen (Rach Cai Gau) Range, front.	10° 28.7′ N 106° 56.2′ E	**Fl.(2)W.** period 6s		5	White beacon.	
20452 *F 3084.1*	--Rear, 75 meters 332°42′ from front.	10° 28.8′ N 106° 56.1′ E	**Fl.(2)W.** period 6s		7	White beacon.	
20452.5	-Beacon 15.	10° 32.3′ N 106° 51.3′ E	**Fl.G.** period 4s			White beacon, black band.	
	SONG CAU TIEU:						
20472 *F 3060*	-Cua Thieu.	10° 14.8′ N 106° 47.6′ E	**Fl.(3+1)W.** period 10s			Tower.	
	CON SON (POULO CONDORE):						
20476 *F 3046*	**-Hon Bay Canh.**	8° 40.0′ N 106° 42.4′ E	**Fl.(2)W.** period 10s	696 **212**	**27**	White round tower, building; 52.	Visible 150°-070°, but partially obscured by Hon Cau 230°- 240°.
20480 *F 3048*	-Vinh Con Son, front.	8° 40.8′ N 106° 36.0′ E	**Fl.(2)W.** period 6s	49 **15**	5	White framework beacon; 23.	F.G. shown from head of landing jetty.
20484 *F 3048.1*	--Rear, 875 meters 339° from front.	8° 41.2′ N 106° 35.9′ E	**Fl.(2)W.** period 6s	81 **25**	10	White framework beacon; 30.	
20486 *F 3049.5*	-Den Da Trang.	8° 39.3′ N 106° 35.5′ E	**Fl.W.** period 5s	56 **17**	12	White round tower, red bands, white four-sided concrete base; 33.	
20492 *F 3042*	**Hon Khoai.**	8° 25.8′ N 104° 50.0′ E	**Fl.W.** period 10s	984 **300**	**27**	Square granite tower, dwelling; 52.	Visible 055°-041°. Obscured arc increases on approach within 9 miles. Aeromarine light.
20493 *F 3040*	Hon Chuoi.	8° 56.9′ N 104° 31.3′ E	**Fl.(2)W.** period 7s	430 **131**	**23**	Yellow building; 36.	
20494 *F 3039*	**Hon Nam Du.**	9° 40.5′ N 104° 21.2′ E	**Fl.(3)W.** period 10s	640 **195**	**25**	Gray tower, yellow building; 39.	
20494.5 *F 3039.5*	Den Tho Chu.	9° 18.1′ N 103° 29.1′ E	**Fl.(4)W.** period 15s	459 **140**	12	Gray tower, yellow top, building; 59.	
	RACON		**N(– •)**				
20496 *F 3021*	Poulo Wai.	9° 54.6′ N 102° 54.5′ E	**Iso.W.** period 4s	269 **82**			

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			VIETNAM				
20500 *F 3036*	-Entrance to Rach Giadi Long Xuyen.	10° 00.7′ N 105° 04.7′ E	**Fl.(2)W.** period 8s	56 **17**	10	Black pylon; 75.	
20504 *F 3032*	Ha Tien Range, front.	10° 22.6′ N 104° 28.7′ E	**Fl.(2+1)W.** period 10s		3	Black lattice beacon, red band.	
20508 *F 3032.1*	-Rear, about 504 meters 043° from front.	10° 23.0′ N 104° 29.0′ E	**Fl.(2+1)W.** period 10s		5	Black lattice beacon, red band.	
20512 *F 3030*	**Mui Nai.** Nui Nai.	10° 21.9′ N 104° 26.7′ E	**Fl.(2)W.** period 10s	367 **112**	**19**	Gray tower, yellow building; 52.	
20516 *F 3022*	**Rach Duong Dong.**	10° 13.0′ N 103° 57.4′ E	**Fl.(3)W.** period 10s	49 **15**	**15**	White round tower, green bands; 16.	
20518 *F 3025*	-**An Thoi.**	10° 00.9′ N 104° 00.7′ E	**Fl.(2)W.** period 6s	46 **14**	**15**	White round tower, red bands, yellow building; 46.	
20520 *F 3028*	-Ham-Ninh.	10° 10.9′ N 104° 03.0′ E	**Fl.W.** period 4s fl. 0.4s, ec. 3.6s	26 **8**	4	White metal framework tower, red bands; 23.	
			CAMBODIA-THAILAND				
20532 *F 3014*	**Kaoh Rung Samloen.**	10° 32.7′ N 103° 19.1′ E	**Fl.(2)W.** period 10s fl. 0.3s, ec. 3.2s fl. 0.3s, ec. 6.2s	395 **120**	**24**	White tower, red band; 59.	Visible 210°-136°.
20536 *F 3015*	Kaoh Kaong Kang (Paletuviers).	10° 36.5′ N 103° 25.9′ E	**Oc.(2)W.** period 9s lt. 4.5s, ec. 1.5s lt. 1.5s, ec. 1.5s	46 **14**	12	Metal framework tower; 30.	
20540 *F 3016*	-Kaoh Dek Koul.	10° 38.1′ N 103° 27.4′ E	**Fl.G.** period 6s fl. 1.5s, ec. 4.5s	79 **24**	8	Metal framework tower; 30.	
20544 *F 3017*	-Kampong Saom (Sihanoukville), harbor basin, S. mole.	10° 39.0′ N 103° 30.2′ E	**F.G.**				
20548 *F 3012*	Kaoh Kon.	11° 26.3′ N 103° 00.5′ E	**F.W.**	62 **19**	9	Red metal framework tower; 30.	Occasional.
20552 *F 3010*	Ko Kut.	11° 34.2′ N 102° 35.3′ E	**Fl.W.** period 10s fl. 1.5s, ec. 8.5s	679 **207**	10	White metal framework tower; 52.	
20556 *F 3008*	**Khiong Yai.**	11° 46.6′ N 102° 53.2′ E	**Fl.(2)W.** period 5s	190 **58**	11	White metal framework tower; 105.	
20560 *F 3004*	Laem Nam.	12° 02.8′ N 102° 35.1′ E	**Fl.(2)W.** period 15s fl. 1s, ec. 2s fl. 1s, ec. 11s	62 **19**	8	White concrete tripod; 52.	
20560.5 *F 3005*	-SE. point.	12° 02.4′ N 102° 35.3′ E	**Fl.(2)W.** period 4s fl. 0.5s, ec. 1s fl. 0.5s, ec. 2s	20 **6**	7	ISOLATED DANGER BRB, beacon, topmark.	
20564 *F 3006*	Laem Ko Pu.	12° 09.9′ N 102° 34.4′ E	**Fl.W.** period 3s fl. 0.3s, ec. 2.7s	46 **14**	8	White concrete tripod; 39.	
20564.5 *F 3006.5*	-Front.	12° 10.0′ N 102° 34.6′ E	**Fl.Y.** period 3s fl. 1s, ec. 2s	56 **17**	12	White post, white diamond daymark.	
20564.6 *F 3007*	-Rear, 336°36′ from front.	12° 10.4′ N 102° 34.4′ E	**Iso.Y.** period 4s	69 **21**	12	White post, white diamond daymark.	
20567 *F 3003*	Khlong Nam, front.	12° 09.8′ N 102° 28.3′ E	**Fl.Y.** period 5s fl. 0.5s, ec. 4.5s	43 **13**	12	White round metal pillar, concrete base, white diamond daymark.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			CAMBODIA-THAILAND				
20567.5 *F 3003.5*	-Rear.	12° 09.9′ N 102° 28.4′ E	**Iso.Y.** period 4s	52 **16**	12	White metal pillar, concrete base, white diamond daymark.	
20568 *F 3002*	Laem Ngop.	12° 10.2′ N 102° 23.6′ E	**Oc.W.** period 3s lt. 2s, ec. 1s	52 **16**	13	White concrete tower, red bands; 46.	
20570 *F 3001*	Ko Chang, Trat.	12° 05.8′ N 102° 16.6′ E	**Fl.(3)W.** period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	299 **91**	10	White round concrete tower, red band; 56.	
20572 *F 3000*	Hin Khi Chang, Chang Ko Channel.	12° 09.9′ N 102° 18.3′ E	**Fl.(3)W.** period 12s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 7.5s	46 **14**	10	White metal framework tower; 36.	
20576 *F 2998*	Ko Chik Nok.	12° 17.9′ N 102° 14.1′ E	**Fl.W.** period 3s fl. 0.3s, ec. 2.7s	59 **18**	10	White concrete tripod; 26.	
20580 *F 2996*	**Laem Sing.**	12° 28.2′ N 102° 03.5′ E	**Fl.W.** period 7s	272 **83**	**20**	White metal framework tower; 20.	
20584 *F 2992*	**Mae Nam Prasae.**	12° 41.9′ N 101° 42.1′ E	**Fl.W.** period 3s fl. 0.3s, ec. 2.7s	59 **18**	**21**	White metal framework tower; 52.	
20592 *F 2994*	Ko Man Nok.	12° 34.3′ N 101° 42.1′ E	**Fl.W.** period 6s fl. 0.5s, ec. 5.5s	154 **47**	10	White metal framework tower; 72.	
20595 *F 2990.2*	Ban Phe, breakwater.	12° 37.1′ N 101° 26.4′ E	**Fl.R.** period 5s fl. 1.5s, ec. 3.5s	26 **8**	4	White round metal pillar, concrete base.	
20595.5 *F 2990.3*	--West.	12° 37.4′ N 101° 26.8′ E	**Fl.(2)W.R.** period 12s fl. 0.5s, ec. 1s fl. 0.5s, ec. 10s	26 **8**	4	White round metal pillar, concrete base.	
20596 *F 2990*	Ko Samet.	12° 34.7′ N 101° 26.9′ E	**Fl.W.R.G.** period 5s fl. 0.5s, ec. 4.5s	328 **100**	W. 10 R. 6 G. 5	White metal framework tower; 49.	W. 008°-078°, G.-083°30′, W.-086°30′, R.-090°, W.-099°, R.-102°30′, W.-292°.
20596.5 *F 2990.1*	-Hin Khan Na.	12° 33.8′ N 101° 27.9′ E	**Fl.(2)W.** period 4s fl. 0.5s, ec. 1s fl. 0.5s, ec. 2s	20 **6**	7	Black round metal pillar, red bands, concrete base.	
20597 *F 2987.6*	TPI Range, front.	12° 38.9′ N 101° 18.4′ E	**Q.G.**	98 **30**	12	Green and yellow beacon, triangular daymark point up.	
20597.1 *F 2987.61*	-Rear, 1370 meters 023° from front.	12° 39.6′ N 101° 18.7′ E	**Iso.G.** period 6s	164 **50**	12	Green and yellow beacon, triangular daymark point down.	
20598	*Map Ta Phut Approach Buoy B.*	12° 29.8′ N 101° 12.2′ E	**Fl.(4)Y.** period 20s			SPECIAL Y, pillar, "X" topmark.	
	RACON		**B(– • • •)**				
20599 *F 2987.5*	*-SPM.*	12° 29.1′ N 101° 11.9′ E	**Fl.(6)W.** period 15s		5		**Horn:** Mo.(U) ev. 30s.
20600 *F 2988*	Rayong.	12° 39.4′ N 101° 16.6′ E	**Fl.(2)W.** period 20s	49 **15**	**21**	White concrete tower; 52.	F.R. and F.G. lights mark river entrance.
20601 *F 2986.1*	Map Ta Phut Range, front, No 18.	12° 40.5′ N 101° 08.6′ E	**Fl.G.** period 4s fl. 0.3s, ec. 3.7s	102 **31**	10	Red and white metal framework tower, red and white square daymark; 98.	
20601.1 *F 2986.11*	-Rear, No 19, 1600 meters 345°30′ from front.	12° 41.4′ N 101° 08.4′ E	**Fl.W.R.G.** period 4s fl. 0.3s, ec. 3.7s	167 **51**	**15**	Red and white metal framework tower, red and white square daymark; 98.	G. 344°48′-345°18′, W.-345°54′, R.-346°24′.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			CAMBODIA-THAILAND				
20602 *F 2986.5*	-W. breakwater, head.	12° 38.8′ N 101° 08.9′ E	**Fl.W.** period 4s fl. 0.3s, ec. 3.7s	10 **3**	7	Red and white checkered structure; 13.	
20602.5 *F 2986.7*	-BLCP Jetty.	12° 39.7′ N 101° 09.3′ E	**F.W.R.G.**	164 **50**	4	White metal post; 151.	G. 358°36′-359°18′, W.-000°42′, R.-001°24′.
20603.5 *F 2985*	AVIATION LIGHT.	12° 43.4′ N 101° 01.8′ E	**F.R.**	899 **274**	10		
20604 *F 2984*	AVIATION LIGHT.	12° 39.7′ N 100° 59.6′ E	**Al.Fl.W.G.**				
			THAILAND-EAST COAST				
20608 *F 2976*	Hin Chula, off Laem Samae San.	12° 35.7′ N 100° 58.0′ E	**Fl.W.** period 3s fl. 0.3s, ec. 2.7s	33 **10**	8	White concrete tower, black bands; 26.	
20612 *F 2982*	**Ko Chuang.**	12° 31.0′ N 100° 57.3′ E	**Fl.(2)W.** period 20s fl. 0.5s, ec. 4s fl. 0.5s, ec. 15s	476 **145**	12	White brick tower; 72.	
			F.R.	430 **131**	8		Shows over Hin Chalan.
20616 *F 2973.5*	**Ko Chorake.**	12° 36.2′ N 100° 55.0′ E	**Fl.(2)W.** period 10s fl. 1s, ec. 1.5s fl. 1s, ec. 6.5s	190 **58**	**15**	White round metal pipe; 16.	
20620 *F 2975.4*	Ko Mu, breakwater, head.	12° 37.0′ N 100° 54.6′ E	**Fl.(2)W.** period 5s	46 **14**	10	White square concrete column; 23.	
20624 *F 2975.3*	-Oil pier.	12° 37.1′ N 100° 54.8′ E	**Fl.W.** period 4s fl. 0.5s, ec. 3.5s	26 **8**	10	White metal pipe, red band; 7.	
20628 *F 2975*	-Range, front.	12° 37.4′ N 100° 54.8′ E	**Q.Y.**	69 **21**	8	White metal framework tower, red rectangular daymark, white stripe; 56.	**Aero Radiobeacon** 2.5 miles E.
20632 *F 2975.1*	--Rear, about 488 meters 017°36′ from front.	12° 37.6′ N 100° 54.9′ E	**Iso.Y.** period 4s	95 **29**	8	White metal framework tower, red rectangular daymark, white stripe; 85.	
20634 *F 2974*	-Ko Tao Mo, breakwater, head.	12° 38.7′ N 100° 51.5′ E	**Fl.(2)W.** period 6s fl. 0.3s, ec. 1s fl. 0.3s, ec. 4.4s	36 **11**	10	White round concrete pole; 20.	
20640 *F 2973*	**Laem Pu Chau.**	12° 39.0′ N 100° 51.2′ E	**Fl.(3)W.** period 15s fl. 0.3s, ec. 1.3s fl. 0.3s, ec. 1.4s fl. 0.3s, ec. 11.4s	561 **171**	**30**	White concrete tower; 49.	
20644 *F 2970*	Hin Khi Sua.	12° 40.9′ N 100° 49.6′ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	30 **9**	6	White concrete tower; 23.	
20648 *F 2968*	Hin Rang Kwian.	12° 47.7′ N 100° 47.8′ E	**Fl.W.** period 3s fl. 0.3s, ec. 2.7s	59 **18**	9	White concrete pile structure; 23.	
20649	Chon Buri.	12° 55.3′ N 100° 52.0′ E	**Fl.W.** period 5s	315 **96**	14	Radio tower.	
20652 *F 2964*	Ko Chun.	12° 56.8′ N 100° 51.5′ E	**Fl.(3)W.R.** period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	43 **13**	W. 10 R. 8	White concrete beacon; 16.	R. 334°-024°, W.-044°, R.-094°, W.-334°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			THAILAND-EAST COAST				
20656 *F 2966*	**Ko Phai.**	12° 56.0′ N 100° 40.3′ E	**Fl.W.** period 5s fl. 1s, ec. 4s	525 **160**	**31**	White concrete tower; 52.	
20660 *F 2962*	Ko Nok.	13° 01.4′ N 100° 49.3′ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	49 **15**	10	White framework tower; 36.	
20661 *F 2963*	Laem Chabang.	13° 04.7′ N 100° 52.4′ E	**Fl.W.** period 10s fl. 1s, ec. 9s	259 **79**	10		
	RACON		**C(– • – •)**		**30**		(3 & 10cm).
20661.1 *F 2963.2*	-Harbor Entrance, Beacon A.	13° 03.3′ N 100° 53.3′ E	**Dir.W.R.G.**	102 **31**	**21**	Metal framework tower.	F.G. 128°15′-130°45′, F.W.-132°15′, F.R.-134°45′.
20662 *F 2963.4*	-Breakwater, NW. head, Br 1.	13° 03.9′ N 100° 52.4′ E	**Q.(3)W.** period 10s	30 **9**	5	E. CARDINAL BYB, beacon, topmark.	3 Q.W. lights mark breakwater center. **Radar reflector.**
20662.1 *F 2963.5*	--SE. head, Br 2.	13° 02.3′ N 100° 53.1′ E	**Q.(3)W.** period 10s	33 **10**	5	E. CARDINAL BYB, beacon, topmark.	**Radar reflector.**
20662.25 *F 2963.86*	-Basin No 1, Beacon C Range, front.	13° 04.3′ N 100° 54.0′ E	**Q.G.**	56 **17**	10	Concrete pole, daymark, black and white stripes.	
20662.26 *F 2963.88*	--Beacon D, rear, 700 meters 059°18′ from front.	13° 04.5′ N 100° 54.3′ E	**Iso.G.** period 6s	82 **25**	10	Concrete pole, red daymark, white stripes.	
20662.3 *F 2963.7*	--SW. corner, B1.	13° 03.6′ N 100° 53.1′ E	**Iso.G.** period 6s	43 **13**	10	Green metal framework tower.	
20662.4 *F 2963.9*	-Basin No 2, Beacon E Range, front.	13° 03.3′ N 100° 54.5′ E	**Fl.G.** period 5s	95 **29**	7	Metal framework tower.	
20662.41 *F 2963.91*	--Beacon F, rear, about 380 meters 073° from front.	13° 03.4′ N 100° 54.7′ E	**Iso.G.** period 4s	112 **34**	7	Metal framework tower.	
20662.5 *F 2963.73*	--NW. corner, B2.	13° 03.1′ N 100° 53.3′ E	**Iso.R.** period 6s	33 **10**	8	Metal framework tower.	
20662.51 *F 2963.75*	--SW. corner, B3.	13° 02.8′ N 100° 53.4′ E	**Iso.G.** period 6s	33 **10**	8	Metal framework tower.	
20664 *F 2960*	Ko Thai Ta Mun.	13° 06.5′ N 100° 48.2′ E	**Fl.(2)W.** period 10s fl. 0.5s, ec. 1s fl. 0.5s, ec. 8s	95 **29**	9	White concrete pile structure; 20.	
20666 *F 2959*	Si Racha Oil Terminal, Jetty No 1, N. head.	13° 07.4′ N 100° 53.0′ E	**Fl.R.** period 2s	30 **9**	6		
20666.5 *F 2959.4*	-Jetty No 2, N. head.	13° 07.3′ N 100° 52.8′ E	**Q.(2)R.** period 2s	30 **9**	6		
20666.7 *F 2958.8*	*-SBM-1.*	13° 07.8′ N 100° 51.6′ E	**Mo.(U)W.** **Q.R.**	20 **6**	5	Yellow superbuoy.	**Radar reflector.**
20666.71 *F 2959.8*	*-SBM-2.*	13° 04.3′ N 100° 46.7′ E	**Mo.(O)W.** period 15s		5	Yellow superbuoy.	**Horn:** Mo.(O) ev. 30s. **Radar reflector.**
	-RACON		**Z(– – • •)**				
20668 *F 2958*	Laem Wat (Wang).	13° 09.0′ N 100° 49.2′ E	**Fl.W.** period 3s fl. 0.3s, ec. 2.7s	46 **14**	7	White brick column; 30.	
20670	**Ko Si Chang.**	13° 09.7′ N 100° 48.7′ E	**Oc.W.** period 6s lt. 3.3s, ec. 2.7s	128 **39**	**17**	White round concrete tower, red top; 128.	
20672 *F 2954*	Hin Sampayu.	13° 11.3′ N 100° 47.9′ E	**Fl.(3)W.** period 15s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 10.5s	46 **14**	10	White brick tower; 30.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			THAILAND-EAST COAST				
20690 *F 2953*	Laem Talat Nok.	13° 28.2′ N 100° 58.6′ E	**Iso.Y.** period 3s	46 **14**	12	White round metal post, concrete base, white diamond daymark.	
	MAE NAM CHAO PHRAYA:						
20700 *F 2939*	**-Bangkok Bar.**	13° 22.8′ N 100° 35.8′ E	**L.Fl.W.** period 10s fl. 2s, ec. 8s	115 **35**	**20**	White concrete structure, red bands; 118. Helicopter platform.	**Siren:** 1 bl. ev. 20s.
	-RACON		**O(– – –)**		12		(3 & 10cm).
20701 *F 2943.5*	-Beacon J Range, front.	13° 27.0′ N 100° 35.7′ E	**Q.R.**	52 **16**	5	White framework tower, red rectangular daymark, white stripe.	
			Q.R.	49 **15**	8		Visible 205°-215°.
20702 *F 2943.51*	--Rear, 1.95 kilometers 210° from front.	13° 26.1′ N 100° 35.2′ E	**Iso.R.** period 6s	112 **34**	9	White framework tower, black rectangular daymark, white stripe.	
			Iso.R. period 6s	108 **33**	9		Visible 205°-215°.
20704 *F 2941*	-Beacon A Range, front.	13° 27.9′ N 100° 36.7′ E	**Q.W.**	49 **15**	5	White metal framework tower, concrete base, red rectangular daymark, white stripe.	
			Q.W.	46 **14**	8		Visible 029°-039°.
20708 *F 2941.1*	--Beacon B, rear, 1,750 meters 034° from front.	13° 28.7′ N 100° 37.2′ E	**Iso.W.** period 6s	79 **24**	4	White metal framework tower, black rectangular daymark, white stripe.	
			Iso.W. period 6s	75 **23**	9		Visible 029°-039°.
20712 *F 2943*	-Beacon E Range, front.	13° 30.8′ N 100° 37.9′ E	**Q.R.**	46 **14**	8	White metal framework tower, yellow square daymark, black stripe.	Visible 025°-035°.
			Q.Y.	49 **15**	9	White metal framework tower, red square daymark, white stripe.	Visible 121°-131°.
20716 *F 2943.1*	--Beacon F, rear.	13° 31.5′ N 100° 38.4′ E	**Iso.R.** period 6s	79 **24**	9	Red building, white stripes.	Visible 025°-035°.
20720 *F 2944*	--Beacon I, rear.	13° 30.3′ N 100° 38.6′ E	**Iso.Y.** period 6s	79 **24**	9	White framework tower, black rectangular daymark, white stripe; 79.	Visible 121°-131°.
20724 *F 2942*	-Beacon C Range, front.	13° 29.5′ N 100° 36.9′ E	**Q.G.**	49 **15**	4	Gray metal framework tower, red rectangular daymark, white stripe; 46.	
			Q.G.	46 **14**	8		Visible 013°-023°.
20728 *F 2942.1*	--Beacon D, rear, 1725 meters 018° from front.	13° 30.4′ N 100° 37.2′ E	**Iso.G.** period 6s	79 **24**	4	Gray metal framework tower, black rectangular daymark, white stripe; 79 .	
			Iso.G. period 6s	75 **23**	8		Visible 013°-023°.
20732 *F 2945*	-Beacon G Range, front.	13° 33.3′ N 100° 34.4′ E	**Q.Y.**	85 **26**	4	White metal framework tower, red rectangular daymark, white stripe.	
			Q.Y.	82 **25**	8		Visible 301°-311°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			THAILAND-EAST COAST				
20736 *F 2945.1*	--Beacon H, rear, 0.5 mile 306° from front.	13° 33.6′ N 100° 34.0′ E	**Iso.Y.** period 6s	115 **35**	4	Concrete water tower, black rectangular daymark, white stripe.	
			Iso.Y. period 6s	111 **34**	9		Visible 301°-311°.
20740 *F 2948*	-No 25.	13° 37.4′ N 100° 32.8′ E	**Q.(9)W.** period 15s	20 **6**	2	W. CARDINAL YBY, beacon, topmark.	
20744 *F 2948.2*	-No 19.	13° 37.6′ N 100° 32.7′ E	**Fl.(4)Y.** period 7s	20 **6**	2	SPECIAL Y, beacon, “X” topmark.	
20748 *F 2948.4*	-No 13.	13° 37.7′ N 100° 32.6′ E	**Fl.(3)Y.** period 5s	20 **6**	2	SPECIAL Y, beacon, “X” topmark.	
20752 *F 2948.6*	-No 7.	13° 37.9′ N 100° 32.4′ E	**Fl.(2)Y.** period 3s	20 **6**	2	SPECIAL Y, beacon, “X” topmark.	
20756 *F 2948.8*	-No 1.	13° 38.1′ N 100° 32.3′ E	**Q.(9)W.** period 15s	20 **6**	2	W. CARDINAL YBY, beacon, topmark.	
20757 *F 2948.92*	-L1.	13° 41.5′ N 100° 35.4′ E	**L.Fl.Y.** period 10s fl. 3s, ec. 7s	49 **15**	10	Yellow metal framework tower, black band.	
20757.3 *2 948.94*	-L2.	13° 42.1′ N 100° 34.8′ E	**L.Fl.Y.** period 10s fl. 3s, ec. 7s	49 **15**	10	Yellow metal framework tower, black band.	
20760 *F 2937*	Tha Chin.	13° 30.6′ N 100° 16.3′ E	**Fl.W.** period 3s fl. 0.3s, ec. 2.7s	56 **17**	12	White metal framework tower; 49.	
20764 *F 2935*	**Mae Nam Mae Khlong.**	13° 21.1′ N 100° 00.0′ E	**Fl.(3)W.** period 12s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 6.5s	108 **33**	**16**	White framework tower; 98.	
20765 *F 2936*	-Entrance channel beacon.	13° 18.4′ N 100° 01.0′ E	**Fl.(2)G.** period 4s	36 **11**	11	White beacon.	
20766 *F 2936.5*	--N.	13° 18.9′ N 100° 01.1′ E	**Iso.W.** period 3s	46 **14**	**23**	White beacon.	
20767 *F 2934.5*	Ao Ban Laem.	13° 12.1′ N 100° 02.6′ E	**Fl.W.R.** period 9s fl. 0.9s, ec. 8.1s	36 **11**	W. 9 R. 5	White concrete tower; 36.	W. 149°-303°, R.-149°.
20768 *F 2934*	Laem Phak Bia.	13° 02.6′ N 100° 05.8′ E	**Fl.W.** period 3s fl. 0.3s, ec. 2.7s	75 **23**	10	White concrete tripod; 62.	
20772 *F 2933*	Hua Hin.	12° 34.2′ N 99° 58.1′ E	**V.Q.(6)+L.Fl.R.** period 10s	23 **7**	9	White concrete column, black bands; 16.	
20776 *F 2932.7*	**Khao Takiap.**	12° 30.9′ N 99° 59.0′ E	**Fl.(2)W.** period 12s fl. 0.5s, ec. 1s fl. 0.5s, ec. 10s	427 **130**	**15**	White metal tripod; 20.	
20780 *F 2932.4*	**Ko Sattakut.**	12° 12.5′ N 100° 02.0′ E	**Fl.(3)W.** period 15s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 10.5s	525 **160**	**16**	White concrete tripod; 36.	
20784 *F 2932*	**Ko Raet.**	11° 47.6′ N 99° 49.4′ E	**Fl.W.** period 3s fl. 0.3s, ec. 2.7s	423 **129**	**17**	White concrete tower; 13.	
20788 *F 2930*	Laem Mae Ramphung.	11° 11.6′ N 99° 34.6′ E	**Fl.W.** period 6s fl. 0.5s, ec. 5.5s	269 **82**	10	White metal framework tower; 72.	
20792 *F 2928*	**Ko Rang.**	10° 49.3′ N 99° 29.5′ E	**Fl.W.** period 9s fl. 0.9s, ec. 8.1s	302 **92**	**16**	White metal framework tower; 23.	

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			THAILAND-EAST COAST				
20796 *F 2924*	**Ko Mattaphon.**	10° 26.9′ N 99° 15.2′ E	**L.Fl.W.R.** period 7s fl. 2s, ec. 5s	180 **55**	W. **16** R. 8	White metal framework tower; 39.	R. 208°-216°, W.-263°, R.-298°, W.-309°, R.-339°, W.-208°.
20797 *F 2924.2*	-Beacon A.	10° 26.8′ N 99° 14.8′ E	**Fl.G.** period 3s	26 **8**	5		
20797.1 *F 2924.3*	--B.	10° 26.7′ N 99° 14.8′ E	**Fl.W.** period 4s	46 **14**	7		
20800 *F 2922*	Ko Rang Banthat.	10° 07.0′ N 99° 12.9′ E	**Fl.(3)W.** period 10s	102 **31**	10	White concrete tower; 20.	
20804 *F 2923*	Mae Nam Tako.	10° 05.4′ N 99° 09.0′ E	**Fl.W.** period 3s fl. 0.3s, ec. 2.7s	30 **9**	10	White concrete column; 20.	
20808 *F 2920*	**Lang Suan.**	9° 56.6′ N 99° 09.6′ E	**Oc.(2)W.R.** period 5s	66 **20**	W. **15** R. 12	White concrete tower; 56.	R. 223°-308° over rocks, W.-223°.
20812 *F 2915.3*	**Ko Tao.**	10° 07.3′ N 99° 50.6′ E	**Fl.W.** period 5s fl. 1s, ec. 4s	243 **74**	**16**	White concrete tower; 36.	
20816 *F 2915.2*	**Ko Phangan, Laem Thian.**	9° 40.2′ N 100° 04.3′ E	**Fl.(2)W.** period 12s fl. 0.5s, ec. 1s fl. 0.5s, ec. 10s	410 **125**	**16**	White metal framework tower; 72.	
20820 *F 2915*	Laem Yai, on Ko Samui.	9° 34.2′ N 99° 54.7′ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	207 **63**	9	White metal framework tower; 56.	
20824 *F 2914.8*	**Ban Ang Thong.**	9° 32.0′ N 99° 56.0′ E	**Fl.(2)W.R.** period 7s	47 **14**	W. **15** R. 12		R. 359°-084°, W.-130°, R.-158°.
20828 *F 2915.4*	Ko Palikan.	9° 21.2′ N 99° 40.9′ E	**Fl.W.** period 3s fl. 0.3s, ec. 2.7s	118 **36**	8	White metal framework tower; 56.	
20830	Erawan Gas Field RACON.	9° 08.3′ N 101° 15.6′ E	**O(– – –)**		**15**	Platform.	Azimuth coverage 010°-235°. (3 & 10cm).
20830.4	Beanpot Gas Field RACON.	8° 50.7′ N 101° 24.7′ E	**B(– • • •)**		**15**	Platform.	(3 & 10cm).
20832 *F 2914*	**Ko Wang Nai.**	9° 18.8′ N 99° 53.5′ E	**Fl.(3)W.** period 9s fl. 0.3s, ec. 1s fl. 0.3s, ec. 1s fl. 0.3s, ec. 6.1s	226 **69**	**16**	White metal framework tower; 30.	
20836 *F 2916*	**Ko Prap, Bandon River.**	9° 15.8′ N 99° 25.9′ E	**Fl.W.** period 6s fl. 1.5s, ec. 4.5s	243 **74**	**21**	White metal framework tower; 46.	
20840 *F 2916.3*	-Beacon A.	9° 16.8′ N 99° 25.8′ E	**Fl.(2)R.** period 6s	29 **9**	11		
20840.1 *F 2916.5*	-Beacon B.	9° 16.0′ N 99° 25.9′ E	**Oc.(2)W.** period 7s	75 **23**	**15**		
20844 *F 2917*	-Beacon C.	9° 12.1′ N 99° 23.0′ E	**Fl.(2)G.** period 6s	26 **8**	11		
20844.1 *F 2917.3*	-Beacon D.	9° 11.3′ N 99° 22.6′ E	**Oc.(2)W.** period 6s	75 **23**	**15**		
20848 *F 2918*	Laem Sui.	9° 23.4′ N 99° 18.7′ E	**Fl.(3)W.** period 12s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 7.5s	112 **34**	9	White metal framework tower; 102.	
20852 *F 2912*	Sichon.	9° 00.7′ N 99° 55.1′ E	**Fl.W.R.** period 3s fl. 0.3s, ec. 2.7s	75 **23**	W. 7 R. 3	White metal framework tower; 36.	W. 164°-254°, R.-294°, W.-012°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			THAILAND-EAST COAST				
20856 *F 2910*	Nakhon.	8° 33.4′ N 99° 59.8′ E	**Fl.W.** period 3s fl. 0.3s, ec. 2.7s	112 **34**	11	White metal framework tower; 105.	**Aero Radiobeacon** 3.4 miles SSW.
20860 *F 2908*	Laem Talumphuk.	8° 30.6′ N 100° 08.8′ E	**Fl.(2)W.** period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 7.5s	102 **31**	13	White metal framework tower; 95.	
20868 *F 2909*	**Ko Kra.**	8° 23.9′ N 100° 44.1′ E	**Fl.(3)W.** period 20s fl. 0.8s, ec. 1.2s fl. 0.8s, ec. 1.2s fl. 0.8s, ec. 15.2s	518 **158**	**17**	White concrete tripod; 52.	
20870	Bangkot Gas Field, Platform W11 RACON.	8° 01.6′ N 102° 28.5′ E	**S (• • •)**				Lighted.
20872 *F 2907*	Amphoe Ranot.	7° 46.9′ N 100° 22.1′ E	**Fl.W.** period 3s fl. 0.3s, ec. 2.7s	115 **35**	9	White metal framework tower; 102.	
20876 *F 2895*	**Ko Losin.**	7° 20.1′ N 101° 58.5′ E	**Fl.(2)W.** period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	39 **12**	**16**	Black metal framework tower, red band, concrete base; 23.	
20876.2	Mae Nam Ko.	6° 14.5′ N 102° 05.6′ E	**Fl.Y.** period 5s	16 **5**	6	White mast; 16.	
20877 *F 2895.5*	Kelantan.	6° 14.8′ N 102° 05.3′ E	**Fl.W.** period 5s	16 **5**	10	White concrete tower.	
	RACON		**A(• −)**				(3cm).
20878 *F 2895.4*	**Sungai Kolok.**	6° 14.5′ N 102° 05.6′ E	**Oc.W.R.G.** period 5s lt. 3s, ec. 2s	89 **27**	W. **15** R. 11 G. 11	White fiberglass tower, concrete base; 89.	G. 115°-197°12′, W.-200°12′, R.-027°.
20880 *F 2904*	**Songkhla Khao Tangkuan.**	7° 12.6′ N 100° 35.4′ E	**Fl.(4)W.** period 30s fl. 0.2s, ec. 4.8s fl. 0.2s, ec. 4.8s fl. 0.2s, ec. 4.8s fl. 0.2s, ec. 14.8s	335 **102**	**25**	White brick tower; 26.	
20884 *F 2905*	-Range, front, A.	7° 13.5′ N 100° 34.4′ E	**Fl.G.** period 3s fl. 0.3s, ec. 2.7s	36 **11**	11	White metal pillar, concrete base, white diamond daymark.	
20888 *F 2905.1*	--Rear B, 250 meters 224°18′ from front.	7° 13.4′ N 100° 34.2′ E	**Iso.G.** period 5s	62 **19**	11	White metal pillar, concrete base, white diamond daymark.	
20892 *F 2906*	-S. breakwater, head.	7° 14.0′ N 100° 35.0′ E	**Fl.R.** period 3s fl. 0.3s, ec. 2.7s	20 **6**	4	White metal pillar, concrete base.	
20894 *F 2906.4*	-N. breakwater, head.	7° 14.1′ N 100° 34.7′ E	**Fl.G.** period 3s fl. 0.3s, ec. 2.7s	26 **8**	4	White metal pillar, concrete base.	F.R. 3M marks each end of oil pier close WSW.
20896 *F 2900*	Laem Ta Chi.	6° 56.9′ N 101° 16.5′ E	**Fl.(3)W.** period 8s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4.5s	102 **31**	10	White metal framework tower; 95.	
20912 *F 2898*	**Khlong Sai Buri.**	6° 42.8′ N 101° 38.0′ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	92 **28**	**15**	White metal framework tower; 85.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			MALAYSIA-EAST COAST				
	SUNGEI KELANTAN:						
20920 *F 2894*	-Sungei Tapang.	6° 12.6′ N 102° 08.2′ E	**Fl.W.** period 10s		6		Fishing light.
20922 *F 2893.5*	-Dalam Rhu.	6° 12.2′ N 102° 09.8′ E	**Fl.R.** period 4s	36 **11**	5	Wooden framework structure, white square daymark.	
20926 *F 2893*	-Pantai Sri Tujoh.	6° 13.2′ N 102° 09.2′ E	**Fl.W.** period 7s	36 **11**	12	White wooden framework tower.	
20930 *F 2891*	Pulau Kuda.	6° 12.9′ N 102° 13.9′ E	**Fl.(2)W.** period 5s		8	Wooden tower, white square daymark.	
20932 *F 2890*	Sungai Kelantan Approach.	6° 10.7′ N 102° 19.6′ E	**Fl.W.** period 4s fl. 0.5s, ec. 3.5s	60 **18**	10	Aluminium framework tower, white rectangular daymark; 49.	Visible 148°-299°.
20934 *F 2889*	Pengkalan Daty, S. breadwater, head.	6° 10.1′ N 102° 20.7′ E	**Fl.W.** period 5s		10	White fiberglass tower; 46.	
20935 *F 2888.5*	Kemasin.	6° 07.9′ N 102° 22.4′ E	**Fl.G.** period 6s	34 **10**	5	White tower.	
20936 *F 2888*	Menchat.	6° 03.7′ N 102° 24.1′ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	40 **12**	10	Tower, white square daymark.	
20937 *F 2887.1*	Tok Bali, N. breakwater.	5° 53.9′ N 102° 29.1′ E	**Q.G.**	46 **14**	10	White column, green triangular topmark point up.	
20937.5 *F 2887*	-S. breakwater.	5° 53.9′ N 102° 29.2′ E	**Q.R.**	46 **14**	10	White column, red square topmark.	
20940 *F 2885.7*	Pulau Perhentian Besar.	5° 53.3′ N 102° 44.2′ E	**Fl.W.** period 7s	145 **44**	10	White pedestal, rock.	Fishing light.
20941 *F 2885.65*	Tanjung Genting.	5° 54.3′ N 102° 44.2′ E	**Fl.R.** period 4s			Beacon.	
20942 *F 2885.6*	Seabelle rock.	5° 54.6′ N 102° 42.6′ E	**Fl.W.** period 4s	30 **9**	8	White column, piles.	
20948 *F 2885.5*	Sungai Besut.	5° 49.8′ N 102° 33.8′ E	**Fl.W.** period 2s	39 **12**	8	White metal tripod; 36.	Fishing light.
20954 *F 2885.16*	Penarik.	5° 36.6′ N 102° 49.7′ E	**Fl.(4)Y.** period 10s	39 **12**	8	Yellow structure, piles.	
20955 *F 2885.17*	Pulau Cipu.	5° 40.6′ N 102° 49.5′ E	**Fl.W.** period 5s	102 **31**	10		
20956 *F 2885.1*	Pulau Penang.	5° 44.6′ N 103° 00.1′ E	**Fl.W.** period 10s	433 **132**	10	Metal framework tower; 26.	
20957 *F 2885.05*	Pulau Leng.	5° 44.2′ N 103° 01.2′ E	**Fl.(2)W.** period 6s	43 **13**	5		
20958 *F 2885.15*	Batu Bara.	5° 38.6′ N 102° 58.0′ E	**Fl.W.** period 4s	253 **77**	11		
20959 *F 2885.03*	Batuan Rusa Utara.	5° 34.3′ N 102° 59.1′ E	**Fl.(2)W.** period 5s	43 **13**	10		
20960 *F 2885*	Tanjong Merang.	5° 32.4′ N 102° 56.8′ E	**Fl.W.** period 4s	68 **21**	8	White mast, white square daymark; 20.	Obscured when bearing more than 278°.
20964 *F 2884*	Batu Rakit.	5° 27.3′ N 103° 03.2′ E	**Fl.(2)W.** period 5s	26 **8**	8	White concrete pile.	
20965 *F 9532*	Lawit-A Platform RACON.	6° 33.0′ N 103° 21.1′ E	**X(– • • –)**				Lighted.
20966 *F 9531*	Jerneh-A Platform RACON.	6° 34.4′ N 103° 44.7′ E	**Y(– • – –)**				Lighted.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			MALAYSIA-EAST COAST				
	KUALA TERENGGANU:						
20968 *F 2880*	**-Bukit Peteri.**	5° 20.1′ N 103° 08.2′ E	**Fl.W.** period 3s fl. 1s, ec. 2s	114 **35**	**15**	White brick column.	
20969 *F 2880.8*	--S Breakwater.	5° 20.4′ N 103° 09.3′ E	**Q.R.**	59 **18**	6	Beacon, square daymark.	
20969.1 *F 2880.9*	--N.	5° 20.5′ N 103° 09.3′ E	**Q.G.**	59 **18**	6	Beacon, triangular daymark point up.	
20970	-Kuala Terengganu No 4.	5° 20.1′ N 103° 08.0′ E	**Fl.(2)R.** period 4s	26 **8**	5	White concrete pile.	
20974 *F 2881*	-Syahbandar beacon.	5° 20.5′ N 103° 08.0′ E	**Fl.G.** period 2s			White wooden framework tower, white square daymark; 20.	
20980	*-Fairway Lighted Buoy.*	5° 20.0′ N 103° 09.0′ E	**L.Fl.W.** period 10s			SAFE WATER RW, spherical.	
20992 *F 2878*	Chendering, head.	5° 16.0′ N 103° 11.1′ E	**Fl.W.** period 5s	249 **76**	10	White metal framework tower.	
20996 *F 2878.5*	-Breakwater, head.	5° 15.5′ N 103° 10.9′ E	**Q.G.**	26 **8**	5	White metal framework tower.	
20998 *F 2877*	Marang, breakwater.	5° 12.6′ N 103° 12.9′ E	**Fl.R.** period 3s	39 **12**	5	Red concrete tower.	
21000 *F 2876*	Pulau Kapas, S. end.	5° 12.7′ N 103° 15.8′ E	**Fl.W.** period 10s fl. 1.2s, ec. 8.8s	96 **29**	13	Metal tower.	Visible 300°-154°.
21002 *F 2869.8*	Pulau Tokong Batu Kemudi.	4° 52.0′ N 103° 39.5′ E	**Fl.W.** period 6s	52 **16**	10		
21003 *F 2869.7*	Batuan Tokong Dayak.	4° 46.9′ N 103° 41.3′ E	**Fl.W.** period 3s	75 **23**	10		
21004 *F 2870*	Tanjung Dungun.	4° 46.9′ N 103° 26.3′ E	**Fl.W.** period 10s fl. 0.7s, ec. 9.3s	249 **76**	10	White round tower, red bands; 59.	
21005 *F 2873*	Kuala Dungun.	4° 46.7′ N 103° 25.7′ E	**Fl.R.** period 4s	26 **8**	5	White post.	
21006 *F 2869.5*	Tanjung Pelor.	4° 39.3′ N 103° 26.9′ E	**Fl.W.** period 5s	70 **21**	8	White pillar, concrete base.	
21008 *F 2869.4*	Paka.	4° 38.6′ N 103° 26.7′ E	**Fl.G.** period 10s	27 **8**	5	White mast; 30.	
21010	Kertih Terminal, breakwater, N. head.	4° 36.0′ N 103° 27.8′ E	**Fl.R.** period 5s		11		
21011 *F 2869.27*	--S. head.	4° 35.1′ N 103° 28.0′ E	**Q.G.**		11		
21012 *F 2869.3*	-Sarus tower.	4° 36.1′ N 103° 27.5′ E	**Q.Y.**	30 **9**	10	Yellow buoyant beacon.	Marks cooling water intake.
21015 *F 2869.29*	-North Approach.	4° 35.5′ N 103° 27.4′ W	**Oc.W.R.G.** period 3s	43 **13**	W. 4 R. 3 G. 3		G. 202°-203°, W.-204°, R.-205°.
21016 *F 2869.15*	Kertch Port Marine Control tower.	4° 34.0′ N 103° 27.9′ E	**Iso.W.R.** period 2s	115 **35**	W. 12 R. 9	Metal framework tower; 115.	W. 180°-225°, R.-305°, W.-329°. Mo.(U)W. 15s 2M Horn on SBM 1.2 miles ENE. Mo.(U)W. 7.5s 2M Horn on SPM 2.4 miles E and 2.8 miles ESE.
21020 *F 2869*	**Tanjong Labohan.**	4° 31.3′ N 103° 28.2′ E	**Fl.W.** period 4s	250 **76**	**15**	White metal framework tower; 20.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			MALAYSIA-EAST COAST				
21022 *F 2869.07*	Kuala Kertih.	4° 30.9′ N 103° 27.2′ E	**Fl.(2)W.** period 5s	36 **11**	5	White beacon, red square daymark.	
21028 *F 2867*	Kijal Coast.	4° 20.1′ N 103° 29.1′ E	**Fl.W.** period 5s		10	White beacon; 30.	
21032 *F 2862*	**Sungai Kemaman.**	4° 14.3′ N 103° 27.3′ E	**Fl.W.** period 12s fl. 0.5s, ec. 11.5s	343 **105**	**15**	White and red masonry tower; 30.	In line 111° with 21034.3.
21034 *F 2859*	-Entrance Range, front.	4° 15.0′ N 103° 27.6′ E	**Q.R.**	69 **21**	12	Framework tower, white triangular daymark point up, red stripe.	
21034.1 *F 2859.1*	--Rear, 457 meters 310° from front.	4° 15.2′ N 103° 27.4′ E	**Iso.R.** period 4s	108 **33**	12	Framework tower, white triangular daymark point down, red stripe.	
21034.15 *F 2860.05*	-E.	4° 12.7′ N 103° 32.0′ E	**Q.G.**	39 **12**	8	Beacon.	
21034.16 *F 2860.1*	-N.	4° 13.1′ N 103° 31.1′ E	**Fl.(2)G.** period 10s	39 **12**	5	Beacon.	
21034.17 *F 2860.15*	-S.	4° 12.9′ N 103° 29.9′ E	**Q.R.**	39 **12**	5	Beacon.	
21034.2 *F 2860*	-No 1.	4° 13.7′ N 103° 29.3′ E	**Fl.G.** period 5s	43 **13**	11	White column, green triangular daymark point up.	
21034.3 *F 2860.2*	-No 2.	4° 13.5′ N 103° 29.1′ E	**Fl.R.** period 5s	36 **11**	8	Beacon, dolphin.	Channel entrance range, in line 291° with 21032.
21035 *F 2860.6*	-No 4.	4° 14.3′ N 103° 28.3′ E	**Fl.R.** period 3s	49 **15**	5	Red and white structure.	
21036 *F 2860.7*	-Range, front.	4° 15.4′ N 103° 27.7′ E	**Q.G.**	69 **21**	12	Framework tower, white triangular daymark point up, red stripe.	
21040 *F 2860.71*	--Rear, 210 meters 327°30′ from front.	4° 15.5′ N 103° 27.7′ E	**Iso.G.** period 4s	89 **27**	12	Framework tower, white triangular daymark point down, red stripe.	R. light on tower 800 meters E.
21040.2 *F 2860.76*	-S. breakwater, head.	4° 14.8′ N 103° 28.0′ E	**Fl.(2)R.** period 5s	29 **9**	2		
21040.4 *F 2860.8*	-No 5.	4° 15.0′ N 103° 28.2′ E	**Fl.(2)G.** period 5s	29 **9**	2	Beacon, dolphin.	
21040.6 *F 2860.9*	-E. breakeater, head.	4° 14.8′ N 103° 28.4′ E	**Fl.Y.** period 5s	33 **10**	3		L.P.G. jetty marked by F.R. lights.
21041 *F 2863*	-Kemaman. N. breakwater.	4° 14.0′ N 103° 27.2′ E	**Q.R.**		8	Beacon.	
21041.5 *F 2863.1*	--S. breakwater.	4° 13.8′ N 103° 27.1′ E	**Fl.Y.** period 3s		8	Beacon.	
	SUNGAI KEMAMAN:						
21042.1 *F 2865.1*	-No 4.	4° 14.6′ N 103° 26.9′ E	**Fl.G.** period 2s	33 **10**	5	White pillar, piles, white triangular daymark point down.	
	KUANTAN PORT:						
21052 *F 2857*	**-Tanjung Gelang.**	3° 57.8′ N 103° 26.2′ E	**Fl.(3)W.** period 10s	279 **85**	**25**	White round concrete tower; 23.	
21056 *F 2858*	-Range, front.	3° 58.6′ N 103° 25.9′ E	**Q.G**	43 **13**	13	Metal framework tower, red square daymark; 33.	Visible 296°06′-326°06′.
21060 *F 2858.1*	--Rear, 960 meters 311°04′ from front.	3° 58.9′ N 103° 25.5′ E	**Oc.G.** period 5s	112 **34**	**15**	Metal framework tower, red square daymark; 98.	Visible 296°06′-326°06′.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			MALAYSIA-EAST COAST				
21062.4 *F 2857.5*	-No 2.	3° 57.1′ N 103° 27.5′ E	**Fl.R.** period 5s	56 **17**	8	PORT (A) R, beacon, topmark.	
21064 *F 2858.3*	-N. breakwater, head.	3° 58.2′ N 103° 26.5′ E	**Fl.(4)G.** period 12s	30 **9**	9	Green beacon; 20.	5 F.Bu. mark breakwater.
21068 *F 2858.2*	-S. breakwater, head.	3° 58.1′ N 103° 26.3′ E	**Fl.(4)R.** period 12s	30 **9**	9	Red beacon; 20.	
21068.4 *F 2858.35*	-Inner breakwater, head.	3° 58.1′ N 103° 26.2′ E	**Fl.R.** period 2s		5		
21068.6 *F 2858.5*	-Naval Basin, N. mole.	3° 58.1′ N 103° 26.0′ E	**Fl.G.**				Fl.R. 300 meters SE.
21069.6 *F 2858.6*	-Palm oil berth.	3° 58.3′ N 103° 25.8′ E	**F.W.**				F.Bu. marks mineral oil berth 700 meters NW.
	SUNGAI KUANTAN:						
21076 *F 2847*	**-Tg. Tembeling.**	3° 48.3′ N 103° 22.4′ E	**Fl.(2)W.** period 10s fl. 0.1s, ec. 3.2s fl. 0.1s, ec. 6.6s	227 **69**	**15**	White wooden framework tower; 20.	Visible 197°-025°.
21080 *F 2848*	-Bukit Pelinding Range, front.	3° 48.6′ N 103° 20.4′ E	**Fl.G.** period 2s		10	White wooden mast, red diamond daymark, black stripe; 23.	
21084 *F 2848.1*	--Rear, 46 meters 323°30′ from front.	3° 48.6′ N 103° 20.4′ E	**Q.G.**		10	White metal framework tower, red diamond daymark, black stripe; 39.	
21087 *F 2846.9*	-Teluk Sisek.	3° 47.8′ N 103° 21.0′ E	**Fl.(2)G.** period 5s		10		
21088 *F 2845*	Kuala Pahang.	3° 32.0′ N 103° 27.8′ E	**Fl.W.** period 7s fl. 0.5s, ec. 6.5s	39 **12**	10	White metal mast, white square daymark.	
	ANAMBAS ISLANDS (INDO):						
21096 *F 1832*	**-Mangkai Pulau.**	3° 05.2′ N 105° 35.9′ E	**Fl.(2)W.** period 12s fl. 1s, ec. 2s fl. 1s, ec. 8s	643 **196**	**25**	White metal framework tower; 131.	Visible 338°-239°.
21096.5 *F 1830*	-Letong.	2° 59.5′ N 105° 42.6′ E	**Fl.W.** period 6s fl. 1s, ec. 5s	197 **60**	11	White fiberglass tower; 33.	
21096.7 *F 1830.5*	**-Tulai.**	2° 59.5′ N 105° 41.0′ E	**Fl.W.** period 6s fl. 1s, ec. 5s	82 **25**	**15**	White beacon.	
21096.8 *F 1830.55*	**Tanjung Lelan.**	2° 49.0′ N 105° 43.9′ E	**Fl.(2)W.** period 10s fl. 0.3s, ec. 3s fl. 0.3s, ec. 6.4s	131 **40**	**18**	White beacon.	
21097 *F 1828*	**Pulau Damar.**	2° 44.6′ N 105° 22.8′ E	**Fl.W.** period 3s fl. 1s, ec. 2s	288 **88**	**22**	White fiberglass tower; 33.	
21097.5 *F 1831*	Tokong Malangbiru.	2° 18.2′ N 105° 35.9′ E	**Fl.W.** period 4s fl. 0.5s, ec. 3.5s	52 **16**	12	White beacon.	
21097.6 *F 1830.8*	Repong Island.	2° 21.7′ N 105° 52.9′ E	**Fl.(4)W.** period 12s fl. 0.3s, ec. 1.7s fl. 0.3s, ec. 1.7s fl. 0.3s, ec. 1.7s fl. 0.3s, ec. 5.7s	72 **22**	14	White beacon.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			MALAYSIA-EAST COAST				
21097.65 *F 1830.7*	Pulau Ritan.	2° 38.1′ N 106° 18.1′ E	**Fl.W.** period 6s fl. 0.5s, ec. 5.5s	56 **17**	12	White beacon.	
21097.7 *F 1830.6*	Serak Island.	2° 47.4′ N 106° 01.0′ E	**Fl.(4)W.** period 20s fl. 0.3s, ec. 3s fl. 0.3s, ec. 3s fl. 0.3s, ec. 3s fl. 0.3s, ec. 9.8s	72 **22**	14	White metal framework tower; 66.	
21097.8 *F 1834*	**Nunsa Island.**	2° 59.6′ N 106° 24.9′ E	**Fl.(4)W.** period 30s fl. 0.4s, ec. 4.6s fl. 0.4s, ec. 4.6s fl. 0.4s, ec. 4.6s fl. 0.4s, ec. 14.6s	82 **25**	**15**	White metal framework tower; 66.	
21098 *F 1838.3*	-NW. side.	3° 00.8′ N 107° 45.1′ E	**Fl.(3)W.** period 15s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 10.5s	41 **12**	11		
21100 *F 1838*	**Midai Island.**	2° 59.5′ N 107° 46.4′ E	**Fl.(4)W.** period 20s fl. 0.3s, ec. 1.6s fl. 0.3s, ec. 1.6s fl. 0.3s, ec. 1.6s fl. 0.3s, ec. 14s	519 **158**	**26**	White metal framework structure; 66.	
21100.1 *F 1838.35*	Karang Jackson.	2° 58.8′ N 107° 48.7′ E	**Fl.W.** period 5s fl. 1s, ec. 4s	49 **15**	12	White beacon.	
21101 *F 1836.8*	**Seluan.**	4° 06.9′ N 107° 50.6′ E	**Fl.(4)W.** period 15s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	125 **38**	**17**	White beacon.	
21102 *F 1837*	Sedanau.	3° 47.8′ N 108° 02.1′ E	**Fl.W.** period 3s fl. 0.5s, ec. 2.5s	41 **12**	11	White beacon; 33.	
21104 *F 1837.6*	Karang Sedanau.	3° 44.4′ N 108° 00.9′ E	**Fl.W.** period 4s fl. 0.5s, ec. 3.5s	49 **15**	10	White framework tower; 49.	
21104.5 *F 1837.65*	Karang Burung.	3° 41.6′ N 108° 02.2′ E	**Fl.W.** period 3s fl. 0.5s, ec. 2.5s	43 **13**	11	White beacon; 33.	**Radar reflector.**
21104.7 *F 1837.75*	Selat Lampa.	3° 39.9′ N 108° 07.8′ E	**Fl.G.** period 9s fl. 0.9s, ec. 8.1s		5	Green beacon.	
21105 *F 1837.7*	-Karang Lampa.	3° 39.2′ N 108° 06.1′ E	**Fl.G.** period 3s fl. 0.3s, ec. 2.7s	19 **6**	6	Green beacon; 16.	
21106 *F 1837.8*	Karang Setahi.	3° 37.4′ N 108° 08.3′ E	**Fl.W.** period 4s fl. 0.5s, ec. 3.5s	43 **13**	11	White beacon.	**Radar reflector.**
21108 *F 1836.7*	**Tanjong Senoebing.**	3° 57.6′ N 108° 24.0′ E	**Fl.W.** period 4s fl. 0.5s, ec. 3.5s	518 **158**	**26**	White metal framework tower; 98.	
21112 *F 1836.5*	**Sekatoeng.**	4° 47.7′ N 108° 01.1′ E	**Oc.W.** period 3s lt. 2s, ec. 1s	321 **98**	**26**	White metal framework structure; 98.	
21114 *F 1836.6*	**Semium.**	4° 31.0′ N 107° 43.7′ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	525 **160**	**22**	White tower.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			MALAYSIA-EAST COAST				
	SIANTAN:						
21117 *F 1835*	**-Tanjung Pedas.**	3° 13.9′ N 106° 11.8′ E	**Fl.W.** period 4s fl. 1s, ec. 3s	269 **82**	**15**	White metal framework tower; 131.	
21120 *F 1836.3*	--Terampa.	3° 13.0′ N 106° 13.0′ E	**F.R.**	23 **7**	12	White metal mast; 43.	
21121 *F 1836.1*	---NE.	3° 13.7′ N 106° 14.3′ E	**Oc.G.** period 5.5s lt. 3s, ec. 2.5s	20 **6**	7	STARBOARD (A) G, beacon, topmark.	
21122 *F 2842*	Pulau Berhala.	3° 14.7′ N 103° 39.5′ E	**Fl.(2)W.** period 5s	98 **30**	10	Wooden framework tower.	
21124 *F 2840*	Kampang Telaga Papan (Menasik).	3° 08.1′ N 103° 26.8′ E	**Fl.W.** period 3s fl. 0.5s, ec. 2.5s	43 **13**	5	White wooden framework tower, white ball topmark.	Fishing light.
21130 *F 2838*	Batu Boya.	2° 45.4′ N 103° 36.7′ E	**Fl.W.** period 5s	26 **8**	8	White concrete pile.	
	PULAU TIOMAN:						
21134 *F 2836.9*	-Tanjung Penuba.	2° 51.3′ N 104° 09.0′ E	**Fl.(2)W.** period 5s	59 **18**	8	Concrete structure, white square daymark.	
21136 *F 2836.8*	-Tanjung Lanting.	2° 43.3′ N 104° 13.0′ E	**Fl.(3)W.** period 15s	67 **20**	10	Concrete structure, white square daymark.	
21138 *F 2836.7*	Palau Tokong Bahara.	2° 39.9′ N 104° 03.7′ E	**L.Fl.W.** period 15s	46 **14**	8	White column, concrete base.	
21140 *F 2837*	Padang Endau, inner.	2° 40.0′ N 103° 38.9′ E	**Fl.(2)R.** period 10s	33 **10**	5	Four-sided metal framework tower, pile.	
21144 *F 2837.2*	-Outer beacon.	2° 40.2′ N 103° 39.7′ E	**Q.W.**	36 **11**	10	White column, piles, white rectangular daymark, black stripe.	
21148 *F 2836.3*	Pulau Achi.	2° 39.0′ N 103° 52.9′ E	**Fl.(2)W.** period 10s	226 **69**	6	White four-sided framework tower; 33.	
21150 *F 2836.1*	**Pulau Harimau.**	2° 33.6′ N 103° 56.5′ E	**Fl.W.** period 5s	318 **97**	**16**	White square framework tower, red bands.	
21152 *F 2834*	Mersing (Br.).	2° 26.0′ N 103° 50.5′ E	**Fl.W.** period 6s fl. 0.5s, ec. 5.5s	35 **11**	10	White metal framework tower.	Difficult to distinguish from lights of town.
21156 *F 2833*	-Outer Channel Beacon.	2° 26.7′ N 103° 51.2′ E	**Fl.R.** period 4s	37 **11**	5	White concrete pillar, red square daymark.	
21160 *F 2833.4*	-Inner Channel Beacon.	2° 26.5′ N 103° 50.8′ E	**Fl.G.** period 5s	37 **11**	5	White concrete pillar, green triangular daymark point up.	
21164 *F 2836*	Pulau Stindan.	2° 28.4′ N 103° 51.3′ E	**Fl.W.** period 11s fl. 1s, ec. 10s	30 **9**	5	Column.	
21165 *F 2835.5*	**Batu Sakit Mata.**	2° 27.5′ N 104° 01.1′ E	**Fl.W.** period 3s	43 **13**	**18**	White concrete tower.	
21166 *F 2835.3*	Batu Tikus.	2° 25.8′ N 104° 02.9′ E	**Fl.(2)W.** period 20s	39 **12**	12	White concrete tower.	
21167 *F 2835*	**Pulau Lang.**	2° 27.4′ N 104° 29.3′ E	**Fl.W.** period 5s	180 **55**	**18**	Metal framework tower.	
21167.5 *F 2832.5*	Batu Murau.	2° 18.3′ N 104° 01.8′ E	**Fl.W.** period 5s	49 **15**	7	White column, platform.	
21168 *F 2832*	Tg. Tenggaroh.	2° 15.1′ N 103° 58.8′ E	**Fl.W.** period 10s		10		

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			MALAYSIA-EAST COAST				
21169 *F 2830*	Tanjung Leman, port.	2° 09.3′ N 104° 00.4′ E	**Fl.R.** period 3s	16 **5**	5	Concrete tower.	
21169.5 *F 2831*	-Starboard.	2° 09.3′ N 104° 00.4′ E	**Fl.G.** period 3s	16 **5**	5	Concrete tower.	
21172 *F 2826*	Jason Bay, Sungai Sedili Besar.	1° 54.6′ N 104° 08.3′ E	**Q.R.**	18 **5**	5		Fishing light.
21173 *F 2827*	Kuala Sedili, Inner beacon.	1° 55.3′ N 104° 07.3′ E	**Fl.(2)R.** period 5s	37 **11**	5	White column, piles.	

Section 13

Singapore Strait and Strait of Malacca

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			MALAYSIA-SINGAPORE-INDONESIA (SINGAPORE STRAIT)				
21176 *F 1812*	**Tanjong Berakit.**	1° 13.2′ N 104° 34.6′ E	**Fl.(2)W.** period 10s fl. 1.5s, ec. 2s fl. 1.5s, ec. 5s	223 **68**	**20**	White metal framework tower; 98.	Visible 085°-341°.
21180 *F 1822*	**Pulau Mungging.**	1° 21.7′ N 104° 17.9′ E	**Fl.W.** period 3s fl. 0.3s, ec. 2.7s	79 **24**	**15**	White metal tower, framework base; 26.	**Radar reflector.**
	RACON		**N(– •)**				(3cm).
21182 *F 1736.95*	Tangjung Kapal Range, front.	1° 20.5′ N 104° 09.9′ E	**Oc.R.** period 4s			Red beacon.	
21182.1 *F 1736.951*	-Rear, 685 meters 028° from front.	1° 20.8′ N 104° 10.1′ E	**Oc.R.** period 4s			Red beacon.	
21182.2 *F 1736.96*	-Pier, N.	1° 19.5′ N 104° 10.1′ E	**F.R.G.**			Black post.	R. 270°-315°, G.-090°.
21182.3 *F 1736.97*	--Elbow.	1° 19.4′ N 104° 10.1′ E	**Fl.R.** period 3s			Black post.	
21182.4 *F 1736.975*	--Middle.	1° 19.4′ N 104° 09.6′ E	**F.R.G.**			Black post.	G. 270°-030°, R.-090°.
21182.5 *F 1736.98*	--Head.	1° 19.4′ N 104° 09.5′ E	**Fl.R.** period 3s			Black post.	
21182.6 *F 1736.965*	--Range.	1° 19.5′ N 104° 10.1′ E	**2 Oc.Y.** period 5s			Black post.	Visible 000°-180°.
21183.1 *F 1736.983*	Tg Setapa, MOLFSY.	1° 20.3′ N 104° 08.4′ E	**Fl.Y.** period 5s				
21183.2 *F 1736.985*	-MOLF3.	1° 20.1′ N 104° 08.2′ E	**Fl.(2)G.** period 10s				
21183.3 *F 1736.988*	-MOLF4.	1° 20.1′ N 104° 08.1′ E	**Fl.(2)R.** period 10s				
21183.4 *F 1736.99*	-MOLF1.	1° 19.9′ N 104° 08.2′ E	**Fl.G.** period 3s				
21183.5 *F 1736.995*	-MOLF2.	1° 19.9′ N 104° 08.0′ E	**Fl.R.** period 3s				
21184 *F 1737*	**Tanjong Setapa** (Langkah Baik).	1° 20.6′ N 104° 08.1′ E	**Fl.(3)W.** period 20s	138 **42**	**18**	Metal framework tower.	
21185 *F 1737.2*	Malang Berendam.	1° 21.5′ N 104° 05.4′ E	**Fl.(2)W.** period 6s	62 **19**	7	White column, platform.	
21186 *F 1821*	**Tompok Utara.**	1° 27.8′ N 104° 27.0′ E	**Fl.(3)W.** period 15s	89 **27**	**15**	Red and white tower.	**AIS** (MMSI No 005330110).
21188 *F 1820*	**Pulau Batu Putch** (Horsburgh).	1° 19.8′ N 104° 24.3′ E	**Fl.W.** period 10s fl. 0.7s, ec. 9.3s	102 **31**	**20**	White round tower, black bands; 95.	**AIS** (MMSI No 005631117). **Radar reflector.**
	RACON		**O(– – –)**		**16**		(3 & 10cm).
21189 *F 1738*	**Karang Si Ajar.**	1° 25.5′ N 104° 05.0′ E	**Fl.W.** period 3s	26 **8**	**18**	White concrete tower.	
21200 *F 1736*	-Changi, AVIATION LIGHT.	1° 21.6′ N 103° 59.4′ E	**Fl.W.** period 1.5s	285 **87**	10	Control tower.	Al.W.G. 3s 1,330 meters 322°, identification beacon Mo.(CH)G. 7s 2,650 meters 024°. Obstruction light.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			MALAYSIA-SINGAPORE-INDONESIA (SINGAPORE STRAIT)				
21200.3 *F 1735*	**Changi Naval Base.**	1° 19.1′ N 104° 02.1′ E	**Fl.(3)W.** period 15s	43 **13**	**15**	White round tower, piles.	Visible 154°-084°.
21200.4 *F 1735.6*	-S. breakwater.	1° 18.5′ N 104° 01.8′ E	**F.W.R.G.**	39 **12**	W. 7 R. 6 G. 6	White beacon, white triangular daymark point down.	G. 260°-267°30′, W.-272°30′, R.-280°.
21200.7 *F 1734*	-Frontier.	1° 18.9′ N 104° 03.6′ E	**Fl.Y.** period 3s	23 **7**	3	Yellow round tower, yellow pile cap, piles.	
21201 *F 1736.5*	--Cafhi Jetty, W. head.	1° 23.5′ N 103° 59.9′ E	**F.R.**				
21201.5 *F 1736.55*	---E. head.	1° 23.4′ N 104° 00.1′ E	**F.R.**				
21202 *F 1733.19*	South Changi.	1° 18.9′ N 103° 58.6′ E	**Fl.Y.** period 10s	16 **5**	4	Yellow round metal tower; 10.	
21204 *F 1739*	-Tg. Chek Jawa.	1° 24.5′ N 103° 59.5′ E	**Fl.W.** period 5s	89 **27**	10	White post, white concrete base, white triangular daymark point down; 16.	Visible 309°-314°. In line 311°24′ with unlit rear.
21208 *F 1740*	-Malang Papan.	1° 24.1′ N 103° 59.3′ E	**Fl.G.** period 5s	20 **6**	5	STARBOARD (A) G, post, topmark; 13.	**AIS** (MMSI No 005631142).
21212 *F 1742*	-Fairy, Batu Puteh.	1° 23.5′ N 103° 58.3′ E	**Fl.(2)R.** period 10s	23 **7**	4	Red post, red concrete base; 16.	
21216 *F 1744*	-Loyang.	1° 23.0′ N 103° 57.9′ E	**Dir.W.R.G.** period 10s	19 **6**	W. 10 R. 8 G. 8	Red mast, red piles.	Fl.(2)G. 128°-129°, Fl.(2)W.-133°, Fl.(2)R.-135°.
21220 *F 1748*	-Tg. Tajam.	1° 25.3′ N 103° 55.6′ E	**Fl.(3)G.** period 10s	20 **6**	4	STARBOARD (A) G, post, topmark; 16.	
21222 *F 1745*	Dawes Rock.	1° 25.6′ N 103° 57.1′ E	**Fl.G.** period 5s		5	White post.	
	SINGAPORE:						
21240 *F 1766*	-Tebrau Reach Range, front.	1° 28.9′ N 103° 48.4′ E	**Fl.G.** period 5s	20 **6**	5	White concrete pile beacon, triangular daymark point up.	Visible 271°-061°.
21244 *F 1766.1*	--Rear, 1280 meters 289°06′ from front.	1° 29.1′ N 103° 47.7′ E	**Iso.G.** period 5s	30 **9**	5	White concrete pile beacon, triangular daymark point down.	Visible 280°-027°.
21252 *F 1770.6*	-Royal Malaysian Naval Base Jetty, head.	1° 27.3′ N 103° 46.7′ E	**Q.R.**		5	Metal column; 23.	
21256 *F 1770.62*	--Elbow.	1° 27.3′ N 103° 46.7′ E	**Q.G.**		5	Metal column; 23.	
21260 *F 1733*	**-Bedok.**	1° 18.5′ N 103° 56.0′ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	249 **76**	**20**	Red hut; 249.	Visible 261°-067°. **Radar reflector.**
21264 *F 1733.17*	-Keta.	1° 18.3′ N 103° 58.1′ E	**Fl.Y.** period 2s	33 **10**	5	Yellow round tower, piles, yellow triangular daymark point up.	**Radar reflector.**
21265 *F 1733.18*	-Tanah Merah.	1° 18.7′ N 103° 59.0′ E	**Fl.Y.** period 5s	20 **6**	7	Yellow round tower; 13.	
21268 *F 1732.5*	-Amber.	1° 17.9′ N 103° 54.3′ E	**Fl.Y.** period 2.5s	59 **18**	5	Yellow round concrete tower; 49.	Visible 256°-058°.
21276 *F 1726.2*	-South Kallang.	1° 16.8′ N 103° 52.6′ E	**Fl.Y.** period 6s	16 **5**	4	SPECIAL Y, post, "X" topmark.	
21280.5 *F 1726.4*	-South Marina.	1° 16.7′ N 103° 52.4′ E	**Fl.Y.** period 6s	16 **5**	4	SPECIAL Y, post, "X" topmark.	
21296 *F 1725*	-AVIATION LIGHT.	1° 17.6′ N 103° 51.2′ E	**Fl.W.** period 2s	771 **235**	14	Hotel.	Obstruction light.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			MALAYSIA-SINGAPORE-INDONESIA (SINGAPORE STRAIT)				
21298 *F 1718.7*	-Outer Shoal.	1° 15.0′ N 103° 51.8′ E	**Fl.G.** period 5s	26 **8**	5	Green buoyant beacon.	
21300 *F 1721*	-Terumbu Selegi.	1° 13.6′ N 103° 49.6′ E	**Fl.R.** period 2.5s	19 **6**	5	Red round tower, red base.	**AIS** (MMSI No 005631141).
21320 *F 1697.995*	-N.W. Boat.	1° 15.2′ N 103° 50.5′ E	**Fl.(3)R.** period 15s	13 **4**	4	Red fiberglass box, red truncated cone.	
21332 *F 1718.4*	-Kukor.	1° 14.4′ N 103° 50.9′ E	**Fl.R.** period 5s	23 **7**	3	PORT (A) R, tower, topmark.	
			SINGAPORE-INDONESIA				
	SINGAPORE:						
21336 *F 1698*	**-Pulau Sakijang Pelepah.**	1° 13.3′ N 103° 51.3′ E	**Fl.W.** period 2.5s fl. 0.8s, ec. 1.7s	195 **59**	**15**	Black wooden framework tower; 36.	**AIS** (MMSI No 995631119).
21340 *F 1699*	-Pulau Tembakul off SE. end.	1° 13.3′ N 103° 51.8′ E	**Fl.R.** period 5s	20 **6**	4	Red fiberglass tower; 13.	
21342 *F 1699.5*	-Kusu.	1° 13.5′ N 103° 51.5′ E	**Fl.R.** period 2.5s	16 **5**	3	PORT (A) R, pile, topmark.	
21343 *F 1717*	-Seringat.	1° 13.9′ N 103° 51.5′ E	**Fl.(2)R.** period 10s	20 **6**	3	PORT (A) R, tower, topmark.	
21344 *F 1718*	-Kias Reef NW. of islet.	1° 13.9′ N 103° 50.7′ E	**Fl.R.** period 10s	16 **5**	3	Red tower, pile.	
21352 *F 1716*	-Renget Beacon.	1° 13.6′ N 103° 50.8′ E	**Fl.R.** period 5s	20 **6**	3	PORT (A) R, tower, topmark.	
21354 *F 1718.6*	-Buran.	1° 15.1′ N 103° 50.9′ E	**Fl.W.** period 2.5s	13 **4**	4	White round tower, white round base.	Visible 234°51′-196°51′. Shown on request.
21354.5 *F 1708*	-Causeway Range, front.	1° 15.7′ N 103° 49.4′ E	**Q.R.**		11		
21354.6 *F 1708.1*	--Rear, 60 meters 240°30' from front.	1° 15.7′ N 103° 49.4′ E	**Iso.R.** period 4s		11		
21355 *F 1720.6*	-SE. Buran.	1° 14.2′ N 103° 50.5′ E	**Fl.G.** period 5s	23 **7**	3	STARBOARD (A) G, tower, topmark.	
21355.4 *F 1720.4*	-Sentosa.	1° 14.2′ N 103° 50.0′ E	**Fl.R.** period 2s	23 **7**	3	PORT (A) R, tower, topmark.	
21392 *F 1704*	-Tanjong Rimau.	1° 15.6′ N 103° 48.4′ E	**Fl.G.** period 5s	20 **6**	4	STARBOARD (A) G, topmark.	
21396 *F 1720*	-Terumbu Palawan.	1° 15.0′ N 103° 48.9′ E	**Fl.G.** period 2.5s	26 **8**	5	Green metal framework tower; 16.	
	PULAU BELAKANG PADANG (INDONESIA):						
21400 *F 1696*	-Batu Berhanti.	1° 11.1′ N 103° 53.0′ E	**Fl.W.** period 8s	54 **16**	13	White beacon, red band; 33.	**Radar reflector.**
	-RACON		**B(– • • •)**		7		(3 & 10cm).
21408 *F 1697*	-N. point of reef.	1° 10.1′ N 103° 52.8′ E	**Fl.G.** period 5s fl. 0.5s, ec. 4.5s	23 **7**	6	Green framework tower; 13.	
21412 *F 1697.2*	-Mariaman.	1° 09.0′ N 103° 54.4′ E	**Fl.G.** period 3s fl. 0.5s, ec. 2.5s	95 **29**	8	STARBOARD (A) G, beacon, topmark; 26.	**Radar reflector.**

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			SINGAPORE-INDONESIA				
21416 *F 1697.3*	-Tenggara Marian.	1° 08.8′ N 103° 54.7′ E	**Fl.R.** period 2s fl. 0.5s, ec. 1.5s	26 **8**	4	PORT (A) R, beacon, topmark; 16.	**Radar reflector.**
21424 *F 1697.7*	Pulau Batam, Sekupang, on reef W.	1° 07.6′ N 103° 55.2′ E	**Fl.G.** period 7s fl. 0.5s, ec. 6.5s	16 **5**	4	STARBOARD (A) G, beacon, topmark; 26.	**Radar reflector.**
21428 *F 1697.73*	--N.	1° 07.8′ N 103° 55.4′ E	**Fl.R.** period 6s	26 **8**	4	PORT (A) R, beacon, topmark; 26.	
21436 *F 1697.5*	--Tanjung Kemudi, NW.	1° 08.5′ N 103° 55.0′ E	**Q.(2)W.** period 5s	26 **8**	6	ISOLATED DANGER BRB, beacon, topmark.	**Radar reflector.**
21460 *F 1697.96*	-Batuampar.	1° 10.0′ N 104° 00.3′ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	65 **20**	8	White beacon, white triangular daymark point down.	**Radar reflector.**
	-RACON		**B(– • • •)**		**15**		Azimuth coverage 080°-180°. (3 & 10cm).
21460.5 *F 1697.965*	Teluk Joduh.	1° 09.6′ N 103° 59.2′ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	30 **9**	8	White beacon.	
21461 *F 1697.97*	Tering Bay, W. beacon.	1° 09.6′ N 104° 03.6′ E	**Fl.G.** period 5s fl. 1s, ec. 4s	23 **7**	6	STARBOARD (A) G, beacon, topmark.	
21461.1 *F 1697.971*	-E. beacon.	1° 09.6′ N 104° 03.7′ E	**Fl.R.** period 5s fl. 1s, ec. 4s	23 **7**	6	PORT (A) R, beacon, topmark.	
21461.3 *F 1697.981*	-SW. beacon.	1° 08.1′ N 104° 03.6′ E	**Fl.G.** period 4s fl. 1.5s, ec. 2.5s	23 **7**	6	STARBOARD (A) G, beacon, topmark.	
21461.5 *F 1697.982*	-SE. beacon.	1° 07.9′ N 104° 03.6′ E	**Fl.R.** period 3s fl. 0.5s, ec. 2.5s	23 **7**	6	PORT (A) R, beacon, topmark.	
21461.7 *F 1697.983*	-S. beacon.	1° 07.8′ N 104° 03.5′ E	**Fl.Y.** period 2s fl. 0.5s, ec. 1.5s	23 **7**	6	SPECIAL Y, beacon, "X" topmark.	
21461.9 *F 1697.979*	-N. beacon.	1° 08.3′ N 104° 03.6′ E	**Fl.R.** period 3s fl. 0.5s, ec. 2.5s	23 **7**	6	PORT (A) R, beacon, topmark.	
21462 *F 1697.99*	**Pulau Nongsa.**	1° 12.1′ N 104° 04.6′ E	**Fl.W.** period 8s fl. 0.5s, ec. 7.5s	131 **40**	**20**	Metal framework structure; 131.	
21464 *F 1695.6*	**Buffalo Rock.**	1° 09.4′ N 103° 48.8′ E	**Q.W.**	72 **22**	**15**	N. CARDINAL BY, beacon, topmark; 30.	**Radar reflector.**
	RACON		**K(– • –)**				
21476 *F 1694.7*	Helen Mar Reef.	1° 07.4′ N 103° 46.5′ E	**Fl.W.** period 6s fl. 0.4s, ec. 5.6s	52 **16**	13	N. CARDINAL BY, beacon, topmark; 39.	**Radar reflector.**
	RACON		**M(– –)**				
21480 *F 1694*	**Pulau Takong Kecil.**	1° 06.3′ N 103° 43.1′ E	**Fl.(2)W.R.** period 10s fl. 0.7s, ec. 1.3s fl. 0.7s, ec. 7.3s	157 **48**	**18**	White metal tower; 98.	R. 065°-136°, W.-065°.
21484 *F 1694.2*	-SSE. of Pulau Takong.	1° 05.9′ N 103° 43.2′ E	**Q.(6)+L.Fl.W.** period 15s	23 **7**	9	S. CARDINAL YB, beacon, topmark.	
	-RACON		**TK(– – • –)**				
21487 *F 1693.95*	-Pulau Pelampong.	1° 07.7′ N 103° 42.0′ E	**Fl.W.** period 4s fl. 1s, ec. 3s	59 **18**	12	White beacon; 49.	
21491 *F 1691.8*	North Nipa.	1° 10.1′ N 103° 39.8′ E	**Q.W.**	39 **12**	14	N. CARDINAL BY, articulated beacon, topmark.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			SINGAPORE-INDONESIA				
21492 *F 1692*	Nipa Reef, N. head.	1° 09.2′ N 103° 39.4′ E	**Fl.W.** period 3s fl. 0.3s, ec. 2.7s	46 **14**	7	White beacon; 33.	
	RACON		**N(– •)**				(3 & 10cm).
21495 *F 1693.9*	Pulau Cula.	1° 02.4′ N 103° 42.7′ E	**Fl.(3)W.** period 15s fl. 0.3s, ec. 3.3s fl. 0.3s, ec. 3.3s fl. 0.3s, ec. 7.5s	52 **16**	12	White beacon.	
21500 *F 1693*	Raffles.	1° 09.6′ N 103° 44.4′ E	**Fl.(3)W.** period 20s	105 **32**	**20**	White round tower; 95.	**AIS** (MMSI No 005631114). **Radar reflector.** **DGPS Station.**
	RACON		**O(– – –)**				(3 & 10cm).
21504 *F 1693.2*	-Semaphore tower.	1° 09.7′ N 103° 44.5′ E	**Iso.W.** period 10s	135 **41**	6	Metal framework tower.	Traffic signals. At night, light X-shaped. By day, black cone points up over black cylinder.
21508 *F 1695*	Pulau Sebarok.	1° 11.8′ N 103° 48.4′ E	**Fl.R.** period 5s	23 **7**	5	Red beacon.	**AIS** (MMSI No 995630022).
21528 *F 1695.3*	-Jambi West.	1° 12.2′ N 103° 47.6′ E	**Q.(9)W.** period 15s	13 **4**	3	W. CARDINAL YBY, beacon, topmark.	2 Q.R. mark ends of jetty 500 meters NNW.
21540 *F 1690.7*	Gerita Beacon.	1° 13.4′ N 103° 43.5′ E	**Fl.(2)W.** period 10s	26 **8**	4	ISOLATED DANGER BRB, tower, topmark.	
21544 *F 1690.6*	Selat Pauh.	1° 13.4′ N 103° 45.0′ E	**Fl.G.** period 5s	20 **6**	3	Green tower, dolphin.	
21545 *F 1690.72*	Semakau, N.	1° 13.1′ N 103° 45.5′ E	**Q.W.**	20 **6**	3	N. CARDINAL BY, beacon, topmark.	
21545.5 *F 1690.725*	Pulau Sakeng.	1° 12.6′ N 103° 46.7′ E	**Dir.W.R.G.**	49 **15**	13	Building.	F.G. 015°48′-016°30′, F.W.-017°36′, F.R.-019°18′. Range 4M by day. Occasional.
21546 *F 1690.73*	-NE.	1° 12.6′ N 103° 46.8′ E	**Fl.Y.** period 5s	16 **5**	3	Yellow round tower; 10.	
21552 *F 1690*	-First Bukom.	1° 14.3′ N 103° 46.3′ E	**Q.W.**	13 **4**	5	N. CARDINAL BY, beacon, topmark.	
21556 *F 1690.1*	-Second Bukom.	1° 14.2′ N 103° 46.5′ E	**Q.(6)+L.Fl.W.** period 15s	13 **4**	5	S. CARDINAL YB, beacon, topmark.	
21560 *F 1690.2*	-Third Bukom.	1° 13.9′ N 103° 46.7′ E	**V.Q.W.**	13 **4**	5	N. CARDINAL BY, beacon, topmark.	
21564 *F 1690.4*	-Fourth Bukom.	1° 13.8′ N 103° 46.7′ E	**V.Q.(6)+L.Fl.W.** period 10s	13 **4**	6	S. CARDINAL YB, beacon, topmark.	
21568 *F 1690.5*	-South Bukom.	1° 13.2′ N 103° 46.8′ E	**Q.(6)+L.Fl.W.** period 15s	13 **4**	3	S. CARDINAL YB, beacon, topmark.	
21572 *F 1690.55*	-Jong.	1° 12.8′ N 103° 47.4′ E	**Q.(3)W.** period 10s	13 **4**	4	E. CARDINAL BYB, beacon, topmark.	
21574 *F 1688.7*	Pulau Busing, OTB, front.	1° 14.2′ N 103° 45.1′ E	**Q.R.**	20 **6**	5	White post, red triangular daymark point up.	
21574.5 *F 1688.8*	--Rear, 232°18′.	1° 14.2′ N 103° 45.0′ E	**Iso.R.** period 4s	43 **13**	5	White lattice beacon, red triangular daymark point down; 16.	
21576 *F 1688*	Cyrene Reef.	1° 15.3′ N 103° 45.5′ E	**Fl.R.** period 2.5s	26 **8**	10	Red concrete framework tower.	**AIS** (MMSI No 005631116).
	RACON		**M(– –)**				(3 & 10cm).
21580 *F 1687*	Cyrene Reefs, Pandan.	1° 15.5′ N 103° 44.5′ E	**Q.(9)W.** period 15s	20 **6**	6	W. CARDINAL YBY, tower, topmark.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			SINGAPORE-INDONESIA				
21586 *F 1701.8*	Seraya Chemical Pier Range, front.	1° 16.2′ N 103° 44.3′ E	**Fl.Y.** period 2s	26 **8**	1	Yellow metal pole, yellow triangular daymark point up.	
21586.1 *F 1701.81*	-Rear, 281°30' from front.	1° 16.2′ N 103° 44.2′ E	**Fl.Y.** period 4s	33 **10**	1	Yellow metal pole, yellow triangular daymark point down.	
21588 *F 1701.75*	Pulau Seraya, AVIATION LIGHT.	1° 16.8′ N 103° 43.5′ E	**Fl.W.**	597 **182**	12	Power station chimney, red and white bands.	Obstruction light.
21590 *F 1700.6*	Palau Seraya, OT1.	1° 16.7′ N 103° 44.2′ E	**Fl.Y.** period 10s	17 **5**		Yellow framework tower, yellow piles.	
21590.5 *F 1700.65*	-OT2.	1° 16.8′ N 103° 44.2′ E	**Fl.Y.** period 2.5s	30 **9**		Yellow post, yellow square daymark.	
21591 *F 1700.7*	-OT3.	1° 16.8′ N 103° 44.1′ E	**Fl.Y.** period 4s	17 **5**		Yellow pile.	
21592 *F 1700.74*	-PLP-1.	1° 17.3′ N 103° 43.6′ E	**Fl.Y.** period 2s	13 **4**	4	SPECIAL Y, beacon, "X" topmark.	
21596 *F 1700.1*	-Damar Laut.	1° 18.0′ N 103° 43.4′ E	**Dir.W.R.G.** period 2.5s	39 **12**	W. 9 R. 7 G. 7	White round tower, piles, white triangular daymark point up.	Fl.G. 308°36′-310°36′, Fl.W.-313°36′, Fl.R.-315°36′. In line 312°06′ with beacon, white triangular daymark point down.
21601 *F 1701.6*	Merlimau, E. terminal.	1° 17.6′ N 103° 43.2′ E	**Fl.Y.** period 3s	20 **6**	4		
21601.1 *F 1701.62*	-W. terminal.	1° 17.7′ N 103° 42.9′ E	**Fl.Y.** period 6s			Yellow metal post.	
21604 *F 1685.48*	Chawan Beacon.	1° 17.2′ N 103° 42.1′ E	**Fl.R.** period 5s	10 **3**	3	PORT (A) R, pile, topmark.	
21608 *F 1685.6*	-Esso Bn. G.	1° 17.1′ N 103° 41.9′ E	**V.Q.G.**	26 **8**	5	Green round tower, dolphin.	
21620 *F 1701.22*	GATX terminal, W. head.	1° 17.9′ N 103° 43.8′ E	**Fl.Y.** period 2.5s	13 **4**	4	White metal post.	
21624 *F 1701.2*	-E. head.	1° 17.8′ N 103° 44.0′ E	**Fl.Y.** period 5s	16 **5**	4	White metal post.	
21625 *F 1700.38*	-Caltex Range, front.	1° 17.6′ N 103° 44.5′ E	**Fl.Y.** period 2s	20 **6**	2	Yellow post, yellow triangular daymark point up.	
21625.1 *F 1700.39*	--Rear, 110 meters 339°54′ from front.	1° 17.7′ N 103° 44.5′ E	**Fl.Y.** period 4s	30 **9**	2	Yellow post, yellow triangular daymark point down.	
21628 *F 1686*	Selat Sinki Beacon.	1° 14.0′ N 103° 43.3′ E	**Fl.(3)G.** period 15s	27 **8**	10	Green concrete framework tower.	**AIS** (MMSI No 005631128).
21632 *F 1685.8*	Terumbu Serebut.	1° 14.8′ N 103° 42.1′ E	**Fl.(2)R.** period 10s	29 **9**	10	PORT (A) R, tower, topmark.	
	RACON		**G(– – •)**		10		(3 & 10cm).
21636 *F 1686.3*	Ayer Beacon.	1° 16.1′ N 103° 42.4′ E	**Dir.W.R.G.** period 3s	33 **10**	W. 10 R. 4 G. 4	White metal mast, white triangular daymark point up.	Fl.G. 299°-305°, Fl.W.-309°, Fl.R.-315°.
21656 *F 1684*	**Sultan Shoal.**	1° 14.4′ N 103° 38.9′ E	**Fl.(2)W.** period 15s fl. 0.2s, ec. 3.6s fl. 0.2s, ec. 11s	66 **20**	**15**	White round tower, dwelling; 69.	**Radar reflector.**
	RACON		**K(– • –)**		**15**		**AIS** (MMSI No 005631144).
21660 *F 1685.65*	Helios Terminal Entrance, breakwater, head.	1° 13.7′ N 103° 40.2′ E	**Fl.(2)G.** period 4s	20 **6**	5	Green round tower, triangular daymark point up.	
21664 *F 1685.03*	Tuas.	1° 17.0′ N 103° 39.4′ E	**Fl.R.** period 5s	20 **6**	3	PORT (A) R, articulated beacon, topmark.	
21672 *F 1685.05*	Gul.	1° 17.3′ N 103° 39.6′ E	**Fl.(3)G.** period 15s	16 **5**	3	STARBOARD (A) G, articulated beacon, topmark.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			SINGAPORE-INDONESIA				
21681 *F 1684.4*	Tuas Fuel Oil Jetty, E.	1° 16.7′ N 103° 38.9′ E	**Fl.Y.** period 2s	16 **5**		Yellow pole, dolphin.	
21681.1 *F 1684.5*	-W.	1° 16.7′ N 103° 38.6′ E	**Fl.Y.** period 4s	16 **5**		Yellow pole, dolphin.	
21682 *F 1679*	Tuas jetty, NW. head.	1° 17.2′ N 103° 36.7′ E	**Fl.Y.** period 5s			Yellow round tower.	
21682.1 *F 1679.2*	-SE. head.	1° 17.2′ N 103° 36.8′ E	**Fl.Y.** period 2.5s			Yellow round tower.	
21685 *F 1681*	Johore Strait.	1° 20.7′ N 103° 38.0′ E	**Fl.W.** period 10s	49 **15**		White concrete tower.	
21686 *F 1680*	Pulo Merambong, W. entrance to Johore Strait.	1° 18.9′ N 103° 36.6′ E	**Fl.W.** period 5s fl. 0.3s, ec. 4.7s	75 **23**	10	White round tower.	Visible 165°-083°.
21686.1 *F 1678*	Tanjung Pelepas.	1° 20.0′ N 103° 33.8′ E	**Dir.W.R.G.** period 10s	62 **19**	6	White round metal tower.	Iso.G. 014°05′-015°08′, Iso.W.-016°14′, Iso.R.-017°16′.
			MALAYSIA-WEST COAST				
21686.5 *F 1676.5*	Pengkalan Penghulu.	1° 17.2′ N 103° 28.8′ E	**Fl.(2)G.** period 5s	30 **9**	5	White structure, green triangular daymark point up.	
21687 *F 1676*	Kukup, outer.	1° 17.7′ N 103° 26.6′ E	**Fl.G.** period 3s	47 **14**	8	White column, piles, green triangular daymark point up.	
21687.1 *F 1676.2*	--Inner.	1° 18.7′ N 103° 26.5′ E	**Fl.R.** period 4s	46 **14**	5	White column, piles, red square daymark.	
21688 *F 1670*	Pontian Kechii, S. side of entrance.	1° 29.0′ N 103° 23.3′ E	**Fl.W.** period 5s	33 **10**	6	Metal framework tower.	Fishing light. F.R. on radio mast 0.3 mile N.
21689 *F 1670.1*	Sungai Pontian Besar.	1° 30.4′ N 103° 22.2′ E	**Fl.G.** period 5s	33 **10**	5	White column, piled platform.	
21690 *F 1669*	**Mudah Selatan.**	1° 25.2′ N 103° 11.2′ E	**Fl.(3)W.** period 15s	85 **26**	**16**	White round fiberglass tower, piled platform.	
	RACON		**O(– – –)**				(3cm).
21691 *F 1669.1*	**Panjang Selatan.**	1° 23.4′ N 103° 07.9′ E	**Fl.W.** period 5s	97 **30**	**15**	White round tower, piled platform.	
21692 *F 1668*	**Pulau Pisang.**	1° 28.2′ N 103° 15.4′ E	**Fl.W.** period 10s fl. 0.4s, ec. 9.6s	493 **150**	**20**	White round tower; 59.	Visible over Pulo Cocob.
21696 *F 1660*	Sungai Benut.	1° 34.9′ N 103° 16.1′ E	**Fl.W.** period 10s fl. 1s, ec. 9s	41 **12**	8	White metal framework tower, concrete pile.	
21698 *F 1658*	Kuala Sg. Rengit.	1° 38.8′ N 103° 08.1′ E	**Fl.W.** period 4s	33 **10**	8		
21699 *F 1657*	Parit Botak.	1° 42.0′ N 103° 04.4′ E	**Fl.G.** period 7s	35 **11**	5	White column, piles, green triangular daymark point up.	
21701 *F 1655*	**Mudah Utara.**	1° 37.2′ N 102° 57.1′ E	**Fl.(2)W.** period 6s	98 **30**	**15**	White structure, piles.	
21703 *F 1654*	**Panjang Utara.**	1° 35.5′ N 102° 46.7′ E	**Fl.(2)W.** period 10s	92 **28**	**16**	White fiberglass tower, piled platform.	
21703.5 *F 1653.5*	Kuala Sungai Ayam.	1° 44.7′ N 102° 55.7′ E	**Fl.R.** period 3s	39 **12**	5	White column, pile, red square daymark.	
21708 *F 1652*	Pulau Sialu.	1° 47.3′ N 102° 53.1′ E	**Fl.W.** period 3s	57 **17**	5	White masonry tower; 49.	F.R. and F.G. mark passage through bridge 4.6 miles NNE. F.R. on radio masts 3.75 miles ENE.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			MALAYSIA-WEST COAST				
21712 *F 1652.5*	**Bukit Segenting.**	1° 47.5′ N 102° 53.4′ E	**Fl.(4)W.** period 30s	282 **86**	**23**	White round concrete tower; 46.	
21716 *F 1650*	Tanjong Tohor.	1° 50.7′ N 102° 42.1′ E	**Fl.W.** period 5s	52 **16**	13		**Radar reflector.**
21718 *F 1648*	Parit Jawa.	1° 56.7′ N 102° 37.7′ E	**Fl.R.** period 4s	36 **11**	5	White column, piles, red square daymark.	
	MUAR:						
21720	*-Entrance Lighted Buoy.*	2° 03.0′ N 102° 30.1′ E	**Fl.G.** period 5s			Green buoy.	
21724 *F 1646*	-N. side of river entrance.	2° 03.4′ N 102° 33.1′ E	**Fl.W.** period 10s	41 **12**	5	Metal framework tower, concrete piles; 39.	Visible 011°12′-125°30′.
21725 *F 1646.2*	-1G.	2° 02.5′ N 102° 30.6′ E	**Q.G.**	16 **5**	5	Green column, piles.	
21726 *F 1646.5*	-2R.	2° 03.9′ N 102° 31.3′ E	**Q.R.**	16 **5**	5	Red column, piles.	
21728 *F 1644*	**Pulau Undan.**	2° 02.9′ N 102° 20.0′ E	**Fl.(2)W.** period 15s	175 **53**	**18**	Red octagonal tower, building; 49.	
21730 *F 1642*	Kuala Umbai.	2° 09.2′ N 102° 20.1′ E	**Fl.G.** period 5s	33 **10**	8	White concrete tower, green triangular daymark point up.	
21731 *F 1641*	Sungay Duyong.	2° 10.3′ N 102° 17.3′ E	**Fl.(2)W.** period 5s	20 **6**	7	Metal post.	
21732 *F 1640*	Pulau Panjang.	2° 09.6′ N 102° 15.3′ E	**Fl.R.** period 5s fl. 1s, ec. 4s	18 **5**	6	White beacon.	
21734 *F 1633*	Batu Gelama.	2° 10.4′ N 102° 14.9′ E	**Fl.W.** period 5s	13 **4**	8	White round concrete tower; 13.	
	MELAKA (MALACCA):						
21735 *F 1637*	-Entrance.	2° 11.1′ N 102° 14.5′ E	**Fl.R.** period 4s	34 **10**	5	White piled structure, red square daymark.	
21736 *F 1634*	-W. breakwater, head.	2° 11.3′ N 102° 14.6′ E	**Fl.R.** period 4s	12 **4**	4	Concrete column; 13.	
21740 *F 1636*	-E. breakwater, head.	2° 11.3′ N 102° 14.7′ E	**Fl.G.** period 4s	12 **4**	4	Concrete column; 13.	
21742 *F 1628*	Tanjung Panchor.	2° 16.6′ N 102° 04.2′ E	**Fl.G.** period 4s	21 **6**	5	White structure.	Fishing light.
21744 *F 1629*	Tanjong Bruas.	2° 12.6′ N 102° 09.4′ E	**Q.R.**	25 **8**	8	Orange concrete column, pile structure.	
21744.3 *F 1628.65*	NW. of Tanjung Keling.	2° 13.7′ N 102° 08.0′ E	**Iso.Y.** period 4s			Articulated beacon.	
21744.4 *F 1628.6*	-NW.	2° 13.7′ N 102° 08.0′ E	**Q.Y.**			Articulated beacon.	
	PELABUHAN SUNGAI UDANG:						
21744.6 *F 1628.1*	*-SBM.*	2° 11.7′ N 102° 06.5′ E	**Mo.(U)W.** period 10s			Yellow SBM.	**Horn:** Mo.(U) ev. 30s. **Radar reflector.**
	-RACON		**U(• • –)**				(3cm).
21745 *F 1628.3*	-Oil terminal, N. dolphin.	2° 15.3′ N 102° 06.9′ E	**F.R.**				
21745.2 *F 1628.35*	-Berth 4.	2° 14.8′ N 102° 07.3′ E	**Q.G.**				

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			MALAYSIA-WEST COAST				
21745.4 *F 1628.4*	-Berth 3.	2° 14.5′ N 102° 07.5′ E	**Q.R.**				
21745.6 *F 1628.45*	-S. dolphin.	2° 14.3′ N 102° 07.7′ E	**F.R.**				
21746 *F 1627.6*	Sungai Baru.	2° 21.2′ N 102° 02.0′ E	**Fl.R.** period 4s	36 **11**	5	Beacon, white square daymark.	
21746.5 *F 1627.9*	Telok Gong intake.	2° 19.9′ N 102° 02.7′ E	**Fl.Y.** period 5s	36 **11**	7	Yellow column, piles.	
21747 *F 1627.8*	Bu Tengah.	2° 21.2′ N 101° 59.1′ E	**Fl.(4)W.** period 6s	26 **8**	5		
21748 *F 1626*	**Tanjong Tuan.**	2° 24.4′ N 101° 51.1′ E	**Fl.(3)W.** period 15s	388 **118**	**23**	White round concrete tower; 79.	
21748.5 *F 1625*	-N.	2° 27.8′ N 101° 50.7′ E	**Fl.(4)W.** period 15s	26 **8**	5	White column.	
21749 *F 1627*	Kuala Linggi, outer.	2° 22.0′ N 101° 57.3′ E	**Fl.(2)W.** period 10s	26 **8**	5	White round concrete beacon.	
21750 *F 1627.4*	-Inner.	2° 23.5′ N 101° 58.3′ E	**Fl.(2)G.** period 10s	10 **3**	5	White round concrete beacon.	
21752 *F 1623*	Port Dickson.	2° 31.2′ N 101° 47.8′ E	**Fl.R.** period 4s	20 **6**	7	Black metal pile, red column, platform.	
21756 *F 1623.6*	Port Dickson Intake, seaward end.	2° 31.8′ N 101° 47.2′ E	**Fl.W.** period 5s	16 **5**	5	Metal post.	
21760 *F 1622.5*	Arang.	2° 30.8′ N 101° 47.2′ E	**Fl.W.** period 8s	59 **18**	8	ISOLATED DANGER BRB, articulated beacon, topmark.	
21764 *F 1622*	Pulau Arang, SW. side.	2° 30.9′ N 101° 47.7′ E	**Fl.W.** period 10s fl. 0.4s, ec. 9.6s	90 **27**	9	White metal framework tower.	Visible 289°-138°30′.
21768 *F 1621.5*	-Kuala Lukut.	2° 33.6′ N 101° 47.6′ E	**Fl.W.** period 5s	26 **8**	8	White platform, concrete pile.	Fishing light.
21770 *F 1621*	Sungai Chuah.	2° 36.2′ N 101° 45.4′ E	**Fl.W.** period 15s	26 **8**	8	White square concrete tower.	Fishing light.
21771 *F 1620.5*	Sepang Outer.	2° 32.9′ N 101° 43.9′ E	**Fl.G.** period 2s	49 **15**	7	White metal framework tower, green triangular daymark point up.	
21772 *F 1620*	Kuala Sepang Besar.	2° 35.0′ N 101° 42.8′ E	**Q.W.**	61 **19**	8	White metal framework tower, white square daymark.	
21773 *F 1620.3*	-Jimah.	2° 34.1′ N 101° 43.9′ E	**Fl.W.** period 3s	33 **10**	10	White column, piles.	
21773.5 *F 1619.7*	Bambek Shoal.	2° 32.6′ N 101° 40.7′ E	**Fl.W.** period 5s	26 **8**	8	Pile, white platform.	
21774 *F 1619.4*	**Sepat.**	2° 33.9′ N 101° 23.4′ E	**Q.W.**	46 **14**	**15**	N. CARDINAL BY, beacon, topmark.	
	RACON		**C(– • – •)**				(3cm).
21776 *F 1619*	**Tanjung Gabang.**	2° 40.9′ N 101° 29.0′ E	**Fl.W.** period 4s	92 **28**	**16**	Round concrete tower, piles.	
21780 *F 1614*	**Bukit Jugra.**	2° 50.1′ N 101° 25.0′ E	**Fl.W.** period 10s	479 **146**	**24**	White round concrete tower; 82.	
21782 *F 1614.5*	Kuala Langat.	2° 48.1′ N 101° 24.1′ E	**Fl.G.** period 5s	13 **4**	8	Pile, green square daymark.	
21784 *F 1616*	**One Fathom Bank.**	2° 53.3′ N 100° 59.7′ E	**Fl.(4)W.** period 20s	141 **43**	**23**	White round metal tower, red bands, concrete piles.	
	RACON		**O(– – –)**		**20**		(3cm).

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			MALAYSIA-WEST COAST				
21788 *F 1617*	Beacon, 9.4 km. SW. of One Fathom Bank.	2° 49.3′ N 100° 56.2′ E	**Q.(6)+L.Fl.W.** period 15s	43 **13**	11	S. CARDINAL YB, articulated beacon, topmark.	**Radar reflector.**
21792 *F 1617.2*	Beacon, 10.5 km. SW. of One Fathom Bank.	2° 48.6′ N 100° 56.5′ E	**Q.W.**	43 **13**	11	N. CARDINAL BY, articulated beacon, topmark.	**Radar reflector.**
	RACON		**M(– –)**		**20**		(3cm).
21794 *F 1617.4*	Beacon, 13.8 km. SW. of One Fathom Bank.	2° 48.9′ N 100° 53.7′ E	**Fl.Y.** period 10s fl. 1s, ec. 9s	38 **12**	13	SPECIAL Y, articulated beacon, "X" topmark.	**Radar reflector.**
21795 *F 1616.5*	**One Fathom Bank North.**	3° 00.8′ N 100° 51.9′ E	**Fl.W.** period 3s	98 **30**	**15**	White round tower, piles.	
	RACON		**T(–)**				(3cm).
21800 *F 1612*	Tanjung Tenteram.	3° 00.0′ N 101° 12.5′ E	**Fl.R.** period 3s	33 **10**	6	White column, piles, red square daymark.	
21806 *F 1609*	Tanjang Mahang Range, front.	2° 54.9′ N 101° 16.0′ E	**Q.W.**	62 **19**	10	White framework tower, concrete base, white triangular daymark point up.	
21806.1 *F 1609.1*	-Rear, 200 yards 011°25′ from front.	2° 55.0′ N 101° 16.0′ E	**Iso.R.** period 4s	85 **26**	8	White framework tower, concrete base, white triangular daymark point down.	
21808 *F 1608*	-First Point Beacon No 28.	2° 55.2′ N 101° 16.6′ E	**Fl.R.** period 4s fl. 0.5s, ec. 3.5s	36 **11**	5	White column, piles, red square topmark.	Visible 222°-032°.
21816 *F 1606*	No 25.	2° 58.5′ N 101° 18.5′ E	**Fl.(2)R.** period 15s	23 **7**	8	Pile, red square daymark.	
21820 *F 1594*	-Tanjong Sarang Lang No 24.	3° 00.0′ N 101° 20.3′ E	**Fl.(2)W.** period 10s	85 **26**	5	Metal framework tower, white square daymark; 82.	F.Y. lights mark NE. and SW. end on terminal 0.85 mile S.
	-Port Kelang (Swettenham):						
21826 *F 1597*	--Marine Department Signal Station.	3° 00.1′ N 101° 23.4′ E	**Fl.R.**	92 **28**	5	Building.	
21828 *F 1604*	--Beacon No 17 Range, front.	2° 59.0′ N 101° 23.6′ E	**Fl.W.** period 3s	13 **4**	8	Concrete piles, white triangular daymark point up.	Marks W. limit of prohibited anchorage.
21832 *F 1604.1*	---Rear, No 16, 21 meters 168° from front.	2° 59.1′ N 101° 23.7′ E	**Fl.G.** period 4s	17 **5**	8	Concrete piles, white triangular daymark point up.	
21834 *F 1595*	-Tanjung Harapan.	3° 00.0′ N 101° 21.9′ E	**Fl.R.** period 5s	36 **11**	5	White column, red square daymark.	
21836 *F 1592*	-Beacon No 20A Range, front.	2° 59.7′ N 101° 21.7′ E	**Q.W.**	26 **8**	10	White structure.	
21840 *F 1592.1*	--Rear No 19A, 145 meters 153°58′ from front.	2° 59.7′ N 101° 21.8′ E	**Fl.G.** period 2s	39 **12**	11	White structure.	
21846 *F 1591*	-Coal and Oil Jetty, N. head.	3° 06.6′ N 101° 18.6′ E	**Fl.R.** period 5s				
21846.2 *F 1591.2*	--S. head.	3° 06.5′ N 101° 18.7′ E	**Fl.R.** period 5s				
21848 *F 1586*	**-Pulau Angsa.**	3° 11.2′ N 101° 13.0′ E	**Fl.W.R.** period 10s	118 **36**	W. **22** R. **15**	White round concrete tower; 36.	W. 145°-315°, R-145°. Partially obscured 323°30′-010°30′ by F.R. 28m close by.
21851 *F 1584*	-Batuan Penyu.	3° 13.8′ N 101° 12.7′ E	**Fl.(2)W.** period 5s	20 **6**	10	White column, piles.	
	-RACON		**P(• – – •)**				(3cm).
21856 *F 1585*	-Kuala Sungai Buloh.	3° 15.1′ N 101° 16.9′ E	**Fl.W.** period 3s	46 **14**	8	White column, piles.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			MALAYSIA-WEST COAST				
21860 *F 1578*	**Kuala Selangor.**	3° 20.5′ N 101° 14.7′ E	**Fl.(2)W.** period 15s fl. 0.4s, ec. 3.4s fl. 0.4s, ec. 10.8s	238 **73**	**18**	White round metal tower, masonry base; 89.	
21861 *F 1580*	**Permatang Angsa.**	3° 20.0′ N 101° 00.0′ E	**Q.W.**	72 **22**	**15**	N. CARDINAL BY, beacon, topmark.	
21862 *F 1579*	-Kuala Sungai.	3° 18.5′ N 101° 13.0′ E	**Fl.W.** period 6s	42 **13**	8	White column, piles.	
21864 *F 1576*	Sungai Haji Durani.	3° 38.3′ N 101° 01.1′ E	**Fl.W.** period 5s	39 **12**	9	White concrete column; 30.	Fishing light.
21866 *F 1577*	Kuala Si Tengi.	3° 23.1′ N 101° 09.9′ E	**Fl.R.** period 5s	26 **8**	5	White structure.	
21868 *F 1576.4*	Sungai Tengorak.	3° 26.8′ N 101° 07.9′ E	**Fl.W.** period 3s	36 **11**	9	White concrete column; 30.	Fishing light.
21874 *F 1576.2*	Kuala Sg. Sekinchan.	3° 29.8′ N 101° 05.4′ E	**Fl.G.** period 4s	36 **11**	5	White column, piles, green triangular daymark point up.	
21876 *F 1574.6*	Sungai Burong.	3° 41.2′ N 100° 55.6′ E	**Fl.W.** period 3s	39 **12**	8	White column, piles.	
21878 *F 1574.4*	Sungai Pulai.	3° 43.5′ N 100° 54.6′ E	**Fl.(2)G.** period 5s	38 **12**	5	Green platform, piles.	
21880 *F 1574.3*	Kuala Bernam.	3° 45.5′ N 100° 52.0′ E	**Fl.R.** period 4s	39 **12**	5	White column, piles.	Fishing light.
21884 *F 1573.5*	Kuala Bernam.	3° 51.3′ N 100° 49.2′ E	**Fl.W.** period 4s	46 **14**	10	White round tower, platform.	
21888	*-Fairway Lighted Buoy.*	3° 49.0′ N 100° 46.0′ E	**L.Fl.W.** period 10s			SAFE WATER RW, spherical.	
21892 *F 1573*	-Sungai Belukang.	3° 51.1′ N 100° 44.9′ E	**Q.W.**	33 **10**	10	Tower.	Fishing light.
21896 *F 1572*	Sungai Tiang.	3° 54.3′ N 100° 42.2′ E	**Fl.W.** period 5s	26 **8**	8	White structure.	
21898 *F 1566*	**Pulau Jarak.**	3° 58.6′ N 100° 05.9′ E	**Fl.(2)W.** period 15s	531 **162**	**20**	White metal framework tower, red bands.	
21900 *F 1565*	**White Rock.**	4° 00.3′ N 100° 30.5′ E	**Fl.(2)W.** period 10s	70 **21**	**15**	Metal framework tower, concrete base; 39.	
	KUUALA PERAK:						
21904	*-Fairway lighted buoy.*	4° 03.5′ N 100° 39.5′ E	**L.Fl.W.** period 10s			SAFE WATER RW, pillar, topmark.	
21908 *F 1569*	-Began Datoh.	3° 59.5′ N 100° 47.1′ E	**Fl.R.** period 12s	33 **10**	7	Mast.	
21909 *F 1570*	-Kota Setia.	4° 01.3′ N 100° 52.2′ E	**Fl.W.** period 6s		10	Beacon.	
21911	*Tapis Oil Field SPM* RACON.	4° 08.0′ N 105° 07.7′ E	**T(–)**				
	LUMUT:						
21912 *F 1558.5*	-Pulau Katak.	4° 09.3′ N 100° 37.1′ E	**Fl.W.R.G.** period 15s	115 **35**		White brick tower; 36.	
	-Selat Dinding - S. Entrance:						
21916 *F 1560*	--South East Point, on Pulau Pangkor.	4° 11.3′ N 100° 34.9′ E	**Fl.(2)W.** period 4s	33 **10**	8	White round concrete tower; 16.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			MALAYSIA-WEST COAST				
21920 *F 1560.2*	-Hospital Rock.	4° 12.9′ N 100° 34.7′ E	**Fl.R.** period 6s fl. 0.5s, ec. 5.5s	16 **5**	5	White stone column; 7.	
21921 *F 1560.5*	--Muroh.	4° 13.3′ N 100° 35.1′ E	**F.R.**	38 **12**	5	Pile platform, white column, red square daymark.	
21922 *F 1560.6*	--Batu Gajah.	4° 13.3′ N 100° 35.8′ E	**Q.W.**	30 **9**	3	White post, triangular daymark point up.	
21924 *F 1554*	-Tanjung Hantu.	4° 18.5′ N 100° 33.5′ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	98 **30**	13	White tower; 20.	
	-Selat Dinding - N. Entrance:						
21928 *F 1554.9*	--Dinding, NW. Entrance Range, front, 1482 meters 307°57′ from common rear.	4° 14.7′ N 100° 34.9′ E	**Fl.(2)G.** period 5s		6	Black and white checkered tower, red square daymark.	
21932 *F 1555*	---Common rear.	4° 14.2′ N 100° 35.5′ E	**Iso.W.** period 4s	33 **10**	7		Visible 117°54′-137°54′.
21936 *F 1555.1*	--River Rock, N. Channel Range, front, 820 meters 332°10′ from common rear.	4° 14.6′ N 100° 35.3′ E	**Fl.W.R.G.** period 3s	30 **9**	W. 7 R. 4 G. 4	White tower.	W. 150°12′-154°12′, R.-332°, G.-150°12′.
21940 *F 1557*	--Batu Mandi.	4° 16.0′ N 100° 33.0′ E	**Q.W.**	23 **7**	5	Framework tower; 23.	Fishing light.
21944 *F 1559*	--S. entrance Range, front.	4° 17.3′ N 100° 34.2′ E	**Fl.(3)W.** period 20s	36 **11**	9	White tower, black bands.	
21948 *F 1559.1*	---Rear, 1852 meters 351°12′ from front.	4° 18.4′ N 100° 34.0′ E	**Fl.W.** period 3s	53 **16**	10	White tower.	
21952 *F 1557.3*	--NW. 3.	4° 16.2′ N 100° 33.0′ E	**Oc.R.** period 3s	19 **6**	3	PORT (A) R, beacon, topmark.	
21956 *F 1557.4*	--NW. 1.	4° 15.7′ N 100° 33.8′ E	**Oc.R.** period 9s	20 **6**	5	PORT (A) R, beacon, topmark.	
21960 *F 1558*	--Tanjung Awang Kecil.	4° 15.2′ N 100° 33.8′ E	**Fl.W.** period 5s	23 **7**	6	White tower.	Fishing light.
21964.5 *F 1560.9*	--Lloyd Rock.	4° 15.4′ N 100° 35.1′ E	**Q.R.**	33 **10**	8	White column, piles, red square daymark.	
	-Sungai Dinding:						
21965 *F 1562*	--River Passage Range, front.	4° 14.1′ N 100° 37.6′ E	**Fl.(3)W.** period 20s	10 **3**	8	White tower, black bands.	Visible 108°-120°.
21965.5 *F 1562.1*	---Rear, 250 meters 114°18′ from front.	4° 14.0′ N 100° 37.7′ E	**Q.W.**	39 **12**	6	White tower.	Visible 108°-120°.
21966 *F 1562.4*	--Lumut Naval Base, W. breakwater, head.	4° 14.3′ N 100° 36.6′ E	**Oc.G.** period 6s			White metal pole, red bands.	
21966.5 *F 1562.5*	---E. head.	4° 14.3′ N 100° 36.8′ E	**Oc.R.** period 6s			White metal pole, red bands.	3 F.Y. 7m 4M mark dolphins 0.5 mile SE.
21967 *F 1563*	--Lumut Pier.	4° 14.2′ N 100° 37.9′ E	**F.R.**				
21967.5 *F 1563.5*	--MFM jetty.	4° 15.8′ N 100° 39.4′ E	**Fl.Y.** period 5s	16 **5**	3	Yellow post, dolphin.	
21968 *F 1553.2*	Palau Talang.	4° 25.3′ N 100° 34.5′ E	**Fl.W.** period 7s	69 **21**	8	Beacon.	
21970 *F 1552.5*	Kuala Beruas.	4° 26.7′ N 100° 37.0′ E	**Fl.(2)W.** period 10s	72 **22**	8	White tower, red bands.	
21972 *F 1552*	Kuala Jurum Mas.	4° 32.2′ N 100° 37.7′ E	**Fl.W.** period 4s	30 **9**	8	White column, piles; 20.	Fishing light.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			MALAYSIA-WEST COAST				
21976 *F 1550*	Bagan Kuala Larut.	4° 47.0′ N 100° 33.1′ E	**L.Fl.W.** period 10s fl. 2s, ec. 8s	22 **7**	8	Black metal framework tower, white stripes, piles; 13.	Fishing light.
21980 *F 1546*	Kuala Kurau, entrance.	4° 59.4′ N 100° 24.7′ E	**Fl.W.** period 4s	23 **7**	8	White framework tower, concrete base; 30.	Fishing light.
21984 *F 1544*	Tg. Piandang.	5° 05.0′ N 100° 21.5′ E	**Fl.W.** period 3s	30 **9**	8	White metal framework tower, concrete base, piles.	Fishing light.
21988 *F 1543*	Sungei Chenaam.	5° 07.9′ N 100° 23.0′ E	**Fl.G.** period 5s	42 **13**	5	White tower, piles.	Fishing light.
21990 *F 1542.5*	Kuala Sungai Kerian.	5° 10.6′ N 100° 24.9′ E	**Fl.R.** period 3s	34 **10**	5	White piled structure, red square daymark.	
	PINANG:						
21992 *F 1540*	-Pulau Rimau.	5° 14.7′ N 100° 16.5′ E	**Fl.(2)W.** period 10s	129 **39**	10	White metal tower; 56.	Fl.Y. 7m 5M lights mark Anchoring Prohibited area to NE.
21996 *F 1540.6*	-Kuala Jalan Baru.	5° 20.9′ N 100° 11.5′ E	**Fl.(2)W.** period 5s	41 **12**	8	White column, piles.	Fishing light.
21998 *F 1540.3*	-Pulau Betung.	5° 18.6′ N 100° 11.5′ E	**Fl.W.** period 5s	20 **6**	8	White pillar.	
21999 *F 1540.8*	-Sungai Pinang.	5° 23.5′ N 100° 11.4′ E	**Fl.W.** period 4s	26 **8**	10	White square concrete column.	Fishing light. Occasional.
22000 *F 1538*	-Teluk Tempoyak Kechil, AVIATION LIGHT.	5° 16.2′ N 100° 16.5′ E	**Fl.R.** period 2s	519 **158**	12		Obstruction.
22004 *F 1538.4*	-Teluk Tempoyak Besar, AVIATION LIGHT.	5° 15.7′ N 100° 16.7′ E	**Fl.R.** period 2.4s	692 **211**	12		Obstruction.
22005 *F 1537.5*	-SC 1.	5° 17.9′ N 100° 17.9′ E	**Fl.Y.** period 5s	39 **12**	5	Yellow column, piles.	
22005.1 *F 1537.3*	-SC 2.	5° 17.4′ N 100° 18.5′ E	**Fl.Y.** period 10s	39 **12**	5	Yellow column, piles.	
22005.2 *F 1537*	-SC 3.	5° 18.4′ N 100° 20.4′ E	**Fl.Y.** period 10s	26 **8**	5	Yellow column, piles.	
22005.3 *F 1537.1*	-SC 4.	5° 17.7′ N 100° 19.6′ E	**Fl.Y.** period 5s	39 **12**	5	Yellow column, piles.	
22005.4 *F 1536.3*	-SC 5.	5° 18.5′ N 100° 21.5′ E	**Fl.Y.** period 5s	39 **12**	5	Yellow column, piles.	
22005.5 *F 1536.5*	-SC 6.	5° 18.0′ N 100° 21.8′ E	**Fl.Y.** period 10s	26 **8**	5	Yellow column, piles.	
22005.6 *F 1536.1*	-SC 7.	5° 18.9′ N 100° 24.1′ E	**Fl.Y.** period 10s	23 **7**	5	Yellow column, piles.	
22005.7 *F 1536.7*	-SC 8.	5° 18.4′ N 100° 24.3′ E	**Fl.Y.** period 5s	23 **7**	5	Yellow column, piles.	
22006 *F 1536*	-Pulau Jerijak.	5° 19.5′ N 100° 19.0′ E	**Fl.R.** period 2.4s	712 **217**		Beacon.	Obstruction.
22008 *F 1532*	-Great Kra Flat Range, front.	5° 20.2′ N 100° 21.1′ E	**Fl.W.** period 3s fl. 0.8s, ec. 2.2s	30 **9**	8	Beacon, triangular daymark point up.	Visible 034°-064°.
22012 *F 1532.1*	--Rear, 580 meters 044°36′ from front.	5° 20.5′ N 100° 21.3′ E	**Q.W.**	52 **16**	8	Beacon, triangular daymark point down.	Visible 035°-065°.
22016 *F 1529*	-Owen Beacon.	5° 19.8′ N 100° 20.9′ E	**Fl.G.** period 5s fl. 0.5s, ec. 4.5s	46 **14**	5	Green pile beacon, round daymark.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			MALAYSIA-WEST COAST				
22020 *F 1527*	-Great Kra Flat South Range, front.	5° 19.4′ N 100° 20.6′ E	**Fl.W.** period 3s fl. 1s, ec. 2s	23 **7**	10	White column, piles, white triangular daymark point up, black stripe.	Visible 090°-270°.
22024 *F 1527.1*	--Rear, 570 meters 185°02′ from front.	5° 19.0′ N 100° 20.6′ E	**Q.W.**	38 **12**	10	White column, piles, white triangular daymark point down, black stripe.	Visible 090°-270°.
22026 *F 1526.5*	-Pinang Bridge, Main Channel, S. Approach.	5° 21.2′ N 100° 20.8′ E	**Oc.W.R.G.** period 10s	121 **37**	W. 10 R. 8 G. 8		G. 358°30′-001°30′, W.-008°30′, R.-018°30′.
22026.1 *F 1526.4*	--N. Approach.	5° 21.2′ N 100° 20.8′ E	**Oc.W.R.G.** period 10s	121 **37**	W. 10 R. 8 G. 8		R. 175°-181°30′, W.-188°30′, G.-195°.
22031 *F 1523.5*	-Bulk Cargo Terminal.	5° 22.0′ N 100° 22.0′ E	**Oc.W.R.G.** period 5s	39 **12**	W. 10 R. 8 G. 8	Red beacon, white bands, red triangular daymark point up.	G. 163°-166°36′, W.-169°18′, R.-173°.
22032 *F 1519*	-Sungai Perai, jetty.	5° 23.0′ N 100° 22.2′ E	**Fl.W.**	20 **6**			
22034 *F 1519.5*	-Sungai Perai.	5° 23.1′ N 100° 22.5′ E	**Iso.W.R.G.** period 4s	48 **15**	W. 10 R. 5 G. 5	White concrete beacon, red bands.	G. 061°-063°, W.-065°, R.-067°.
22036 *F 1522*	-Light A.	5° 22.5′ N 100° 21.9′ E	**Q.W.**			Dolphin.	
22040 *F 1523*	-Light D.	5° 22.4′ N 100° 21.9′ E	**Q.R.**			Dolphin.	
22052 *F 1514*	-Naval and Petroleum anchorage.	5° 25.5′ N 100° 22.5′ E	**Fl.R.** period 3s	46 **14**	5	Beacon, white round daymark.	Visible 090°-180°.
22053	-Container terminal, N. head.	5° 24.9′ N 100° 21.6′ E	**Fl.(3)R.** period 5s				
22053.5 *F 1515.2*	--S. head.	5° 24.7′ N 100° 21.6′ E	**Fl.(3)G.** period 5s				
22056 *F 1494*	**-Fort Point.**	5° 25.3′ N 100° 20.6′ E	**Fl.R.** period 2s fl. 0.4s, ec. 1.6s	87 **27**	**16**	White metal framework tower on NE tower of fort; 69.	F.G. shown from N. and F.R. from S. end of Swetterham pier. 2 F.G. shown from Church Street pier.
22060	-Aston Beacon.	5° 24.3′ N 100° 20.7′ E	**Q.W.**	33 **10**	8	White column, piles, black double cone daymark points up.	
22064 *F 1524*	-North limit of Prohibited Anchorage, No 3 Range, front.	5° 22.8′ N 100° 20.1′ E	**Fl.G.**			Black and white beacon, square daymark.	
22068 *F 1524.1*	--Rear, No 2 about 914 meters 279° from front.	5° 22.9′ N 100° 19.6′ E	**Fl.G.**			Black and white beacon, square daymark.	
22072 *F 1525*	-South limit of Prohibited Anchorage, PGB 7 Range, front.	5° 22.4′ N 100° 19.9′ E	**Fl.G.** period 5s	39 **12**	5	White column, piles, green triangular daymark point up.	
22076 *F 1525.1*	--Rear, PGB 6 about 700 meters 279° from front.	5° 22.5′ N 100° 19.6′ E	**Fl.G.** period 2s	39 **12**	5	White column, piles, green triangular daymark point up.	
22088 *F 1486*	**-Muka Head.**	5° 28.4′ N 100° 10.8′ E	**Fl.W.** period 10s fl. 0.3s, ec. 9.7s	795 **242**	**25**	White granite tower; 46.	
22092 *F 1490*	Pulau Tikus.	5° 28.6′ N 100° 17.8′ E	**Fl.W.** period 3s fl. 1s, ec. 2s	49 **15**	10	White stone column; 23.	Visible 097°48′-318°36′.
22100 *F 1483*	Kuala Muda.	5° 34.4′ N 100° 20.4′ E	**Fl.W.** period 3s	33 **10**	10	White column, piles.	
22104 *F 1482*	-Tg. Dawai.	5° 40.9′ N 100° 21.8′ E	**Fl.W.** period 8s fl. 0.5s, ec. 7.5s	22 **7**	10	White square tower, piles.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			MALAYSIA-WEST COAST				
22108 *F 1480*	Yen.	5° 49.4′ N 100° 22.0′ E	**Fl.W.** period 6s	26 **8**	5	White concrete structure.	Fishing light.
22112 *F 1479*	Sungai Tabangau Entrance.	5° 58.2′ N 100° 21.1′ E	**Fl.W.** period 4s	30 **9**	4	White concrete mast.	Fishing light.
22116 *F 1478*	Sungai Kedah.	6° 06.6′ N 100° 17.1′ E	**Fl.(2)W.** period 10s	50 **15**	5	White tower.	
22117 *F 1478.3*	Kuala Kedah, 1G.	6° 05.8′ N 100° 16.0′ E	**Q.G.**	16 **5**	5	Green column, piles.	
22117.5 *F 1478.4*	-2R.	6° 05.2′ N 100° 14.8′ E	**Q.R.**	16 **5**	5	Red column, piles.	
22118 *F 1475*	Kuala Jerlun.	6° 12.3′ N 100° 14.0′ E	**Fl.G.** period 3s	33 **10**	5	White column, green triangular daymark point up.	
22120 *F 1474*	Sungai Sanglang.	6° 14.9′ N 100° 11.4′ E	**Fl.W.** period 8s	33 **10**	8	White column, piles.	
22122 *F 1477.6*	P. Singa Besar, T. Pak Kehar.	6° 11.7′ N 99° 44.9′ E	**Fl.W.** period 10s	79 **24**	10	Concrete structure, white square daymark.	
22123 *F 1477.3*	**Pulau Kedera.**	6° 15.4′ N 99° 46.3′ E	**Fl.W.** period 5s	260 **79**	**15**	White fiberglass tower.	
22124 *F 1476*	**Pulau Enggang.**	6° 14.6′ N 99° 52.6′ E	**Fl.W.** period 8s	197 **60**	**15**	Red metal framework tower, white bands, concrete base; 36.	
22124.5 *F 1477.7*	Pulau Rebak Besar.	6° 17.5′ N 99° 41.4′ E	**Oc.R.**			Beacon.	
22125 *F 1476.4*	Pulau Langkawi, SE. side.	6° 19.2′ N 99° 53.0′ E	**Fl.G.** period 5s	26 **8**	5	Metal pipe, white daymark.	
22126 *F 1476.5*	Pulau Timun. Tg Asam.	6° 18.7′ N 99° 53.1′ E	**Fl.W.** period 3s	33 **10**	8	Metal pipe, white daymark.	
22126.5 *F 1476.6*	-Tg. Penarak.	6° 18.4′ N 99° 52.5′ E	**Fl.G.** period 3s	22 **7**	5	Metal pipe, white daymark.	
22127 *F 1476.7*	-Pulau Bumbon Besar.	6° 17.4′ N 99° 51.7′ E	**Fl.R.** period 4s	33 **10**	4	Metal pipe, white daymark.	
22130 *F 1476.3*	**Pulau Sigal.**	6° 19.5′ N 99° 55.6′ E	**Fl.W.** period 5s	91 **28**	**15**	Beacon, triangular daymark point up.	
22131 *F 1476.23*	Teluk Apau, No 1.	6° 22.0′ N 99° 54.6′ E	**Fl.Y.** period 3s	39 **12**	5	Yellow column, piles.	
22131.1 *F 1476.24*	-No 2.	6° 21.6′ N 99° 54.7′ E	**Fl.Y.** period 5s	39 **12**	5	Yellow column, piles.	
22131.2 *F 1476.22*	-No 3.	6° 22.2′ N 99° 55.5′ E	**Fl.Y.** period 6s	39 **12**	5	Yellow column, piles.	
22132 *F 1470*	Tanjung Chinchin, on Pulau Langkawi.	6° 26.3′ N 99° 38.8′ E	**Fl.(3)W.** period 15s	36 **11**	10		*Temporarily extinguished (1989).*
22134 *F 1471*	**Pulau Dangli.**	6° 26.9′ N 99° 46.6′ E	**Fl.W.** period 10s	282 **86**	**15**		
22138 *F 1472*	Kuala Perlis.	6° 24.1′ N 100° 05.9′ E	**Fl.(2)W.** period 5s	30 **9**	9	White beacon.	
22138.1 *F 1472.11*	-No 1.	6° 23.7′ N 100° 07.3′ E	**Fl.Y.** period 5s	39 **12**	5	Yellow column, piles.	
22138.2 *F 1472.12*	-No 2.	6° 23.1′ N 100° 07.5′ E	**Fl.Y.** period 10s	39 **12**	5	Yellow column, piles.	
22140 *F 1473*	Sungai Baharu.	6° 20.0′ N 100° 09.4′ E	**Fl.W.** period 4s	25 **8**	8	White square concrete tower; 26.	Fishing light.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			THAILAND-WEST COAST				
22144 *F 1194*	**Ko Yao.**	6° 28.0′ N 100° 04.3′ E	**Fl.(3)W.** period 15s fl. 1s, ec. 2s fl. 1s, ec. 2s fl. 1s, ec. 8s	282 **86**	**15**	White brick tower; 26.	
22148 *F 1193.8*	Tanjong Pauh.	6° 29.7′ N 100° 05.1′ E	**Fl.(3)W.** period 3s	56 **17**	8	White metal framework tower; 49.	
22152 *F 1192.4*	**Ko Palai.**	6° 30.0′ N 99° 10.8′ E	**Fl.(2)W.** period 12s fl. 1.5s, ec. 2s fl. 1.5s, ec. 7s	151 **46**	**16**	White metal framework tower; 72.	
22156 *F 1192.5*	Ko Tanga.	6° 33.3′ N 99° 26.6′ E	**Fl.W.** period 6s fl. 0.5s, ec. 5.5s	322 **98**	11	White metal framework tower; 72.	
22160 *F 1193*	Tanyong Po.	6° 37.1′ N 99° 56.9′ E	**Fl.(2)W.** period 12s fl. 0.5s, ec. 1s fl. 0.5s, ec. 10s	135 **41**	8	White framework tower; 52.	
22168 *F 1188*	**Ko Bulaobot.**	7° 04.5′ N 99° 23.6′ E	**Fl.(2)W.** period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 7.5s	135 **41**	**16**	White brick tower; 36.	
22172 *F 1186*	Yongsata, N. bank.	7° 06.9′ N 99° 40.1′ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	157 **48**	10	White metal framework tower; 59.	
22176 *F 1184*	Ko Nok.	7° 16.3′ N 99° 28.5′ E	**Fl.W.** period 3s fl. 0.2s, ec. 2.8s	39 **12**	10	White metal framework tower; 26.	
22177 *F 1184.5*	-Ban Na Klua Nua, front.	7° 21.6′ N 99° 28.9′ E	**Fl.R.** period 3s	62 **19**	10		
22177.1 *F 1184.6*	--N., rear.	7° 21.9′ N 99° 28.8′ E	**Iso.W.** period 4s	135 **41**	13		
22178 *F 1184.8*	-Ko Kho, front.	7° 23.6′ N 99° 30.3′ E	**Fl.G.** period 3s	46 **14**	10		
22178.1 *F 1184.9*	--E., rear.	7° 23.7′ N 99° 30.4′ E	**Iso.W.** period 3s	62 **19**	13		
22179 *F 1185.1*	-Sawmill, front.	7° 24.1′ N 99° 30.1′ E	**Fl.Y.** period 4s	46 **14**	12		
22179.2 *F 1185.2*	--N., rear.	7° 24.1′ N 99° 30.1′ E	**Iso.W.** period 5s	52 **16**	13		
22179.4 *F 1185.4*	-Ban Hua Hin, front.	7° 24.4′ N 99° 30.2′ E	**Fl.R.** period 4s	43 **13**	10		
22179.6 *F 1185.5*	--N., rear.	7° 24.5′ N 99° 30.2′ E	**Iso.W.** period 3s	49 **15**	13		
22180 *F 1183*	Ko Lanta Yai.	7° 28.2′ N 99° 05.9′ E	**Fl.(3)W.** period 15s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 10.5s	118 **36**	10	White concrete tower; 36.	
22181 *F 1182.8*	Ko Ma.	7° 36.9′ N 98° 51.9′ E	**Fl.(2)W.** period 8s fl. 0.5s, ec. 1s fl. 0.5s, ec. 6s	259 **79**	10	White framework tower; 20.	
22182	**Laem Phra Chao.**	7° 45.6′ N 98° 18.3′ E	**Fl.W.** period 9s fl. 0.2s, ec. 8.8s	312 **95**	**22**	White concrete tower; 62.	
22184 *F 1170*	Ko Kaeo Noi.	7° 44.1′ N 98° 17.9′ E	**Fl.W.** period 6s fl. 0.5s, ec. 5.5s	171 **52**	10	White concrete tower; 39.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			THAILAND-WEST COAST				
22188 *F 1174*	**Ko Taphao Noi.**	7° 49.9′ N 98° 25.4′ E	**Fl.(2)W.** period 20s	220 **67**	**20**	White concrete tower; 39.	
22189 *F 1174.3*	**Laem Phan Wa.**	7° 48.0′ N 98° 24.6′ E	**Fl.(3)W.R.** period 15s	167 **51**	**23**		
22189.1 *F 1174.5*	-SW. pier, Laem Phan Wa.	7° 47.9′ N 98° 24.4′ E	**Fl.W.** period 5s	16 **5**	6	White beacon; 13.	
22189.3 *F 1174.6*	-Entrance Range A, front.	7° 49.5′ N 98° 24.2′ E	**Fl.Y.** period 3s	102 **31**	**21**	White beacon, white diamond daymark.	
22189.31 *F 1174.61*	--B, rear, about 260 meters 332°06′ from front.	7° 49.6′ N 98° 24.2′ E	**Iso.Y.** period 4s	105 **32**	**21**	White beacon, white diamond daymark.	
22190 *F 1175*	Ko Phuket, Laem Tukkae.	7° 52.2′ N 98° 25.0′ E	**Fl.Y.** period 4s	20 **6**	7		2 Fl.R. lights 0.4 mile and 0.6 mile NNW.
22190.2 *F 1175.2*	-Khlong Tha Chin Range, front.	7° 52.6′ N 98° 24.9′ E	**Fl.R.** period 5s			White beacon, white diamond daymark.	
22190.4 *F 1175.4*	-Harbor, rear, 000° from front.	7° 52.8′ N 98° 24.9′ E	**Iso.W.** period 4s			White beacon, white diamond daymark.	
	KRABI:						
22191 *F 1182.6*	-Khlong Siboya Entrance Range, front, 7A.	7° 56.3′ N 98° 59.3′ E	**Fl.W.** period 3s		8	White beacon, diamond daymark.	
22191.5 *F 1182.601*	--Rear, 7B, 1204 meters 075°30' from front.	7° 56.5′ N 98° 59.9′ E	**Iso.W.** period 3s		10	White beacon, diamond daymark.	
22192 *F 1182*	-Ko Nok.	8° 01.8′ N 98° 54.4′ E	**Fl.W.** period 3s fl. 0.3s, ec. 2.7s	79 **24**	7	White metal framework tower; 69.	
22193	-Entrance Range A, front.	8° 01.9′ N 98° 54.0′ E	**Fl.R.** period 3s			White beacon, diamond shaped daymark.	
22193.1	--B, rear, 000° from front.	8° 02.3′ N 98° 54.0′ E	**Iso.W.** period 3s			White beacon, diamond shaped daymark.	
22194	-Channel Range C, front.	8° 02.7′ N 98° 54.4′ E	**Iso.W.** period 3s			White beacon, diamond shaped daymark.	
22194.1	--D, rear, 018° from front.	8° 02.8′ N 98° 54.5′ E	**Fl.R.** period 3s			White beacon, diamond shaped daymark.	
22196 *F 1178*	Ko Nom Sao Noi.	8° 18.7′ N 98° 31.0′ E	**Fl.W.** period 3s fl. 0.3s, ec. 2.7s	89 **27**	7	White concrete tower; 7.	
22200 *F 1168*	**Ko Similan Island.**	8° 38.1′ N 97° 38.9′ E	**Fl.(3)W.** period 20s fl. 0.8s, ec. 1.2s fl. 0.8s, ec. 1.2s fl. 0.8s, ec. 15.2s	561 **171**	**17**	White metal framework tower; 98.	
22204 *F 1166*	Ko Ra, N. point.	9° 15.9′ N 98° 18.4′ E	**Fl.(3)W.** period 8s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4.5s	128 **39**	13	White brick tower; 30.	
22208 *F 1165*	**Ko Luk Kham Tai.**	9° 27.3′ N 98° 19.8′ E	**Fl.W.** period 8s fl. 0.5s, ec. 7.5s	253 **77**	**15**	White metal framework tower; 49.	
22212 *F 1164*	**Ko Chi.**	9° 28.7′ N 97° 54.3′ E	**Fl.W.** period 10s fl. 1s, ec. 9s	377 **115**	**15**	White metal framework tower; 49.	
22214 *F 1167*	**Ban Thap Lamu.**	8° 35.2′ N 98° 13.1′ E	**Fl.W.** period 4s fl. 0.5s, ec. 3.5s	233 **71**	**15**	White metal framework tower; 102.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			THAILAND-WEST COAST				
22215 *F 1166.8*	Hin Khi Nok.	8° 36.2′ N 98° 13.9′ E	**Fl.(3)W.** period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	33 **10**	8	White metal structure, concrete base; 19.	
22216 *F 1162*	Ko Khom.	9° 52.6′ N 98° 26.6′ E	**Fl.W.** period 3s fl. 0.3s, ec. 2.7s	197 **60**	9	White brick tower; 36.	
22220 *F 1163*	**Ko Phayam.**	9° 44.0′ N 98° 22.8′ E	**Fl.(2)W.** period 12s fl. 1s, ec. 2s fl. 1s, ec. 8s	210 **64**	**15**	White metal framework tower; 49.	
22224 *F 1161*	Ko Son Thai.	9° 54.1′ N 98° 31.0′ E	**Fl.(2)W.** period 10s fl. 0.5s, ec. 1s fl. 0.5s, ec. 8s	108 **33**	10	White metal framework tower; 49.	
	PAKCHAN RIVER:						
22228 *F 1160*	-Ko Phi.	9° 57.7′ N 98° 35.2′ E	**Fl.W.** period 3s fl. 0.3s, ec. 2.7s	66 **20**	7	White metal framework tower; 30.	
22229 *F 1159*	-Ranong, Custom Pier.	9° 58.9′ N 98° 36.0′ E	**Fl.W.** period 4s fl. 1.2s, ec. 2.8s	154 **47**	10	White octagonal concrete tower, orange roof; 164.	
			INDONESIA (SUMATERA-NORTH COAST AND ADJACENT ISLANDS)				
22232 *F 1300*	**Pulau Rondo.**	6° 04.4′ N 95° 07.1′ E	**Fl.(3)W.** period 20s fl. 0.5s, ec. 3s fl. 0.5s, ec. 3s fl. 0.5s, ec. 12.5s	633 **193**	**24**	White metal framework tower; 131.	
22236 *F 1302*	**Breueh.**	5° 45.0′ N 95° 03.4′ E	**Fl.(2)W.** period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	524 **160**	**20**	Red round stone tower, broad white band; 144.	Visible 083°-288°.
			F.R.	433 **132**	**18**		Visible 084°-166°.
22238 *F 1295*	**Pulau Bunta.**	5° 33.2′ N 95° 09.2′ E	**Fl.(4)W.** period 20s fl. 0.3s, ec. 2.7s fl. 0.3s, ec. 2.7s fl. 0.3s, ec. 2.7s fl. 0.3s, ec. 10.7s	295 **90**	**25**	Metal framework tower; 131.	
22240 *F 1312*	Teluk Sabang, Ujun Lho Me.	5° 53.1′ N 95° 18.9′ E	**Fl.(3)W.** period 15s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 9.5s	52 **16**	7	White metal framework tower; 46.	Obscured when bearing more than 132°.
22244 *F 1310*	**-Pulau Klah.**	5° 52.6′ N 95° 18.5′ E	**L.Fl.W.** period 30s fl. 7s, ec. 23s	79 **24**	**15**	White metal framework; 49.	Visible 109°-192°.
22252 *F 1313*	-Peuninpun Signal Station.	5° 53.6′ N 95° 18.8′ E	**F.R.**		12	Mast.	
22256 *F 1313.5*	-Balohan.	5° 49.6′ N 95° 20.8′ E	**Fl.Y.** period 3s fl. 0.5s, ec. 2.5s	30 **9**	6	Beacon.	
22258 *F 1314*	**Ujung Seuke.**	5° 48.5′ N 95° 22.5′ E	**Fl.W.** period 2.5s fl. 0.5s, ec. 2s	279 **85**	**20**	White tower.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
	INDONESIA (SUMATERA-NORTH COAST AND ADJACENT ISLANDS)						
22260 *F 1308*	**Le Meule,** near Ujung Tapagajah.	5° 53.8′ N 95° 20.0′ E	**Fl.W.** period 5s fl. 1s, ec. 4s	95 **29**	**16**	White metal framework tower; 82.	Visible 125°-303°.
	RACON		**M(– –)**				(3 & 10cm).
22268 *F 1315*	Buro.	5° 41.2′ N 95° 23.3′ E	**L.Fl.W.** period 8s	56 **17**	12	White beacon; 49.	
22272 *F 1317*	Krueng Raja Baai.	5° 35.8′ N 95° 31.6′ E	**Fl.W.** period 3s fl. 0.5s, ec. 2.5s	49 **15**	9	White metal framework; 49.	
22273 *F 1296*	Palau Deudab, Ug Umpee.	5° 36.4′ N 95° 11.5′ E	**Fl.W.** period 4s fl. 0.5s, ec. 3.5s	131 **40**	10	White fiberglass tower; 33.	**Radar reflector.**
22276 *F 1316*	Krueng Raya.	5° 36.8′ N 95° 31.9′ E	**L.Fl.W.** period 8s fl. 2s, ec. 6s	115 **35**	12	White beacon; 39.	
22284 *F 1294*	Lhonga.	5° 27.1′ N 95° 14.3′ E	**L.Fl.W.** period 7s fl. 3s, ec. 4s	56 **17**	12	Beacon; 23.	**Radar reflector.**
22286 *F 1319*	**Ujung Pidie.**	5° 29.9′ N 95° 52.9′ E	**Fl.(3)W.** period 20s fl. 0.5s, ec. 3s fl. 0.5s, ec. 3s fl. 0.5s, ec. 12.5s	197 **60**	**41**	Metal framework tower; 131.	
22292 *F 1320.2*	Sigli, approach.	5° 23.0′ N 95° 58.0′ E	**Fl.W.** period 3s fl. 0.5s, ec. 2.5s	39 **12**	12	Beacon; 26.	**Radar reflector.**
22296 *F 1293*	Pulau Rusa.	5° 16.7′ N 95° 12.2′ E	**Fl.W.** period 3s fl. 0.5s, ec. 2.5s	390 **119**	11	White beacon; 33.	**Radar reflector.**
22300 *F 1321.3*	Kruenggeuken, W. breakwater, head.	5° 15.1′ N 97° 02.1′ E	**L.Fl.G.** period 10s fl. 2s, ec. 8s	26 **8**	6	Green metal framework tower; 26.	
22304 *F 1321.2*	-E. breakwater, head.	5° 15.1′ N 97° 02.2′ E	**L.Fl.R.** period 10s fl. 2s, ec. 8s		6	Red metal framework tower.	
22305 *F 1321.5*	-W. inner breakwater, head.	5° 14.8′ N 97° 02.0′ E	**Fl.G.** period 3s		4		
22307.5 *F 1321.5*	-Kuala Geukuech.	5° 14.5′ N 97° 02.0′ E	**Fl.G.** period 3s		4		
22309 *F 1321.6*	-Public berth.	5° 14.4′ N 97° 02.3′ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	62 **19**	5	Tower; 59.	
22312 *F 1321*	Geukuch.	5° 14.3′ N 97° 02.9′ E	**Fl.(2)W.** period 10s fl. 0.5s, ec. 3s fl. 0.5s, ec. 6s	49 **15**	12	White beacon.	**Radar reflector.**
	RACON		**C(– • – •)**				
22313 *F 1321.8*	-NE.	5° 14.7′ N 97° 03.1′ E	**Fl.R.** period 3s fl. 0.5s, ec. 2.5s	16 **5**	10	Metal framework tower; 16.	
22314 *F 1321.1*	SPM.	5° 15.2′ N 97° 04.2′ E	**Fl.Y.** period 15s		6	Mooring tower.	
22316 *F 1323*	Blang Lancang E. breakwater.	5° 13.4′ N 97° 06.6′ E	**Fl.(3)R.** period 8s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4.5s	49 **15**	9	Red beacon; 26.	**Radar reflector.**

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			INDONESIA (SUMATERA-NORTH COAST AND ADJACENT ISLANDS)				
22320 *F 1323.2*	-W. breakwater.	5° 13.5′ N 97° 06.3′ E	**Fl.(3)G.** period 8s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4.5s	49 **15**	10	Green beacon; 26.	**Radar reflector.**
22324 *F 1323.4*	-Inner breakwater.	5° 13.3′ N 97° 06.2′ E	**Fl.G.** period 2s fl. 0.5s, ec. 1.5s	49 **15**	10	Green beacon; 26.	**Radar reflector.**
22340 *F 1322*	-Range, front.	5° 12.8′ N 97° 06.1′ E	**Iso.W.** period 2s	131 **40**	**15**	White beacon, black bands, orange triangular daymark point up; 118.	**Radar reflector.**
22344 *F 1322.1*	--Rear, 157 meters 205° from front.	5° 12.7′ N 97° 06.1′ E	**Oc.W.** period 8s lt. 6s, ec. 2s	148 **45**	**18**	White beacon, red bands, orange triangular daymark point down; 141.	**Radar reflector.**
22351 *F 1323.5*	-Range, front.	5° 13.4′ N 97° 05.6′ E	**Q.R.**	138 **42**	8	White beacon, white triangular daymark point up; 125.	
22352 *F 1323.51*	--Rear, 170 meters 295° from front.	5° 13.5′ N 97° 05.5′ E	**Oc.W.R.G.** period 4s lt. 3s, ec. 1s	144 **44**	W. 12 R. 8 G. 8	White beacon, red bands, orange triangular daymark point down; 144.	W. 000°-278°, R.-301°, G.-000°.
22356 *F 1324*	Lhokseumawe.	5° 12.2′ N 97° 08.1′ E	**Fl.W.** period 3s fl. 0.3s, ec. 2.7s	72 **22**	8	White metal framework tower; 66.	Obscured when bearing less than 148°.
22360 *F 1326*	-Pier, head.	5° 10.8′ N 97° 08.9′ E	**L.Fl.W.** period 10s fl. 2s, ec. 8s	98 **30**	12	White metal framework tower; 98.	
22364 *F 1327*	**Tanjung Jambuair.**	5° 15.0′ N 97° 29.7′ E	**Fl.W.** period 5s fl. 1.5s, ec. 3.5s	144 **44**	**20**	White metal framework tower, white octagonal base; 131.	
	RACON		**K(– • –)**		**20**		Azimuth coverage 315°-077°. (3 & 10cm).
22366	Platform NSO-A RACON.	5° 44.3′ N 97° 50.6′ E	**Q(– – • –)**				
22367 *F 1476.1*	**Pulau Perak.**	5° 41.6′ N 98° 56.2′ E	**Fl.(2)W.** period 10s	420 **128**	**16**	White concrete tower, black bands.	
22368 *F 1327.5*	Idi.	4° 56.9′ N 97° 46.1′ E	**Fl.W.** period 3s fl. 0.5s, ec. 2.5s	66 **20**	8	White metal framework tower; 66.	
22369 *F 1327.8*	Ujang Peureula.	4° 53.9′ N 97° 53.8′ E	**Fl.(2)W.** period 6s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 3.5s	39 **12**	11	White metal framework tower; 33.	
22372 *F 1328*	Ujung Peureulak.	4° 51.7′ N 97° 54.6′ E	**Fl.(2)W.** period 10s fl. 0.5s, ec. 2.5s fl. 0.5s, ec. 6.5s	52 **16**	13	White metal framework tower; 46.	
22374 *F 1329*	Tualang AVIATION LIGHT.	4° 43.3′ N 97° 50.5′ E	**Oc.W.** period 2s lt. 1.3s, ec. 0.7s	400 **122**		White tower, orange bands; 299.	*Reported seen at 23M.*
22376 *F 1330*	-Kuala Langsa Range, front.	4° 33.4′ N 98° 04.5′ E	**Fl.W.** period 3s fl. 0.3s, ec. 2.7s	26 **8**	10	White beacon, white triangular daymark point up; 33.	
22380 *F 1330.1*	-Rear, about 1300 meters 219°54′ from front.	4° 32.9′ N 98° 04.0′ E	**Iso.W.** period 4s	59 **18**	12	White beacon, white triangular daymark point down; 59.	
22384 *F 1330.5*	-Entrance, N.	4° 33.0′ N 98° 04.0′ E	**Fl.R.** period 4s fl. 0.5s, ec. 3.5s	33 **10**	6	Beacon, red square daymark.	**Radar reflector.**
22388 *F 1330.6*	-Entrance S.	4° 32.5′ N 98° 02.7′ E	**Fl.G.** period 3s fl. 0.5s, ec. 2.5s	33 **10**	6	STARBOARD (A) G, beacon, topmark.	**Radar reflector.**

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
	INDONESIA (SUMATERA-NORTH COAST AND ADJACENT ISLANDS)						
22392 *F 1330.7*	-Kuala Beukah.	4° 31.5′ N 98° 01.2′ E	**Fl.(3)W.** period 10s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 5s	65 **20**	12	White metal framework tower; 49.	
22394 *F 1334*	**Ujung Tamiang.**	4° 25.2′ N 98° 16.9′ E	**Fl.(3)W.** period 20s fl. 0.5s, ec. 2.5s fl. 0.5s, ec. 2.5s fl. 0.5s, ec. 13.5s	144 **44**	**20**	White metal framework tower; 131.	
22395 *F 1337*	Pangkalansusu.	4° 07.1′ N 98° 12.2′ E	**Fl.Y.** period 4s fl. 0.5s, ec. 3.5s	23 **7**	4	SPECIAL Y, beacon, “X” topmark.	
22395.1 *F 1337.5*	-Panjang.	4° 07.1′ N 98° 12.2′ E	**Fl.Y.** period 5s fl. 0.5s, ec. 4.5s	23 **7**	4	SPECIAL Y, beacon, “X” topmark.	
22400 *F 1352*	**Nipahlarangan.**	3° 54.2′ N 98° 40.8′ E	**Fl.(3)W.** period 20s fl. 0.5s, ec. 3.5s fl. 0.5s, ec. 3.5s fl. 0.5s, ec. 11.5s	144 **44**	**17**	White metal framework tower; 131.	
	RACON		**N(– •)**		**25**		
22412 *F 1355.9*	-Entrance Range, front.	3° 49.7′ N 98° 44.3′ E	**Fl.(3)W.** period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 2.5s	25 **8**	12	White metal framework structure; 16.	
22416 *F 1356*	--Beacon II, rear, 1463 meters 187° from front.	3° 49.3′ N 98° 44.2′ E	**Iso.W.** period 6s	56 **17**	12	Black metal framework tower, white bands; 39.	Common rear for outer and inner ranges.
22417 *F 1356.05*	---E.	3° 49.4′ N 98° 45.3′ E	**Fl.Y.** period 5s	20 **6**	4	SPECIAL Y, beacon, “X” topmark.	
22420 *F 1356.01*	-Inner Range, Beacon III, front, about 914 meters 220° from Beacon II.	3° 48.9′ N 98° 43.9′ E	**Q.(2)W.** period 3s	39 **12**	8	White metal framework tower; 16.	
22424 *F 1362*	-Middle Range Beacon IV, front.	3° 48.0′ N 98° 43.4′ E	**Q.(2)W.** period 4s	26 **8**	8	White metal framework tower; 16.	
22428 *F 1362.1*	--Lighted Beacon V, rear, 1280 meters 200°30′ from front.	3° 47.3′ N 98° 43.1′ E	**Iso.W.** period 6s	49 **15**	7	White framework tower; 39.	Visible 037°-007°.
22429 *F 1362.5*	-Kuala Deli, entrance.	3° 47.6′ N 98° 43.2′ E	**Fl.G.** period 3s	29 **9**	5	STARBOARD (A) G, beacon, topmark.	
22429.5 *F 1362.2*	---E.	3° 47.4′ N 98° 43.4′ E	**Fl.Y.** period 4s fl. 0.5s, ec. 3.5s	20 **6**	4	SPECIAL Y, beacon, “X” topmark.	
22430 *F 1367*	--On shore.	3° 47.0′ N 98° 42.9′ E	**Fl.W.** period 4s fl. 0.5s, ec. 3.5s	42 **13**	5	White beacon.	
22441 *F 1371*	-Pertamina, jetty, E. head.	3° 47.5′ N 98° 42.7′ E	**Q.W.**	7 **2**	5	Dolphin.	
22442 *F 1371.2*	--W. head.	3° 47.4′ N 98° 42.6′ E	**Fl.R.** period 5s	7 **2**	5	Dolphin, square daymark.	
22444 *F 1372*	Sei Nonang.	3° 47.5′ N 98° 40.9′ E	**Fl.G.** period 3s fl. 0.5s, ec. 2.5s	42 **13**	6	Green beacon, triangular daymark point up; 33.	
	SUNGAI ASAHAN:						
22448 *F 1373*	-Nunang.	3° 47.3′ N 98° 40.9′ E	**Fl.R.** period 5s fl. 0.5s, ec. 4.5s	36 **11**	5	Red beacon, square daymark; 26.	

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			INDONESIA (SUMATERA-NORTH COAST AND ADJACENT ISLANDS)				
22449 *F 1374.5*	Tanjung Sibungabunga.	3° 39.1′ N 98° 58.9′ E	**Fl.W.** period 3s fl. 0.5s, ec. 2.5s	69 **21**	10	White beacon.	
22450 *F 1374*	Bunga Banks.	3° 46.6′ N 99° 04.3′ E	**Fl.(2)W.** period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	56 **17**	12	ISOLATED DANGER BRB, beacon, topmark; 33.	**Radar reflector.**
22452 *F 1375*	**Pulu Berhala.**	3° 46.4′ N 99° 29.9′ E	**Fl.(4)W.** period 19s fl. 1s, ec. 18s	630 **192**	**30**	White metal framework tower; 39.	
22456 *F 1375.5*	Kuala Bedagai.	3° 30.5′ N 99° 13.7′ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	49 **15**	10	White metal framework tower; 43.	
22458 *F 1376.5*	Pangkalan Dodek.	3° 24.3′ N 99° 19.0′ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	59 **18**	6	White beacon; 49.	
			INDONESIA (SUMATERA-EAST COAST AND ADJACENT ISLANDS)				
22460 *F 1378*	**Palau Pandang.**	3° 25.4′ N 99° 45.5′ E	**Fl.W.** period 5s fl. 1s, ec. 4s	206 **63**	**15**	White metal framework tower; 39.	
22462 *F 1378.5*	Pulau Salahnama.	3° 20.5′ N 99° 43.4′ E	**Fl.W.** period 6s fl. 0.5s, ec. 5.5s	397 **121**	12	White beacon; 98.	
22463 *F 1378.7*	Tg Tiram Range, front.	3° 14.2′ N 99° 35.5′ E	**Fl.W.** period 3s fl. 0.5s, ec. 2.5s	36 **11**	12	White beacon, white triangular daymark point up.	
22463.5 *F 1378.71*	-Rear, 320 meters 164° from front.	3° 14.0′ N 99° 35.5′ E	**Fl.(3)W.** period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	49 **15**	12	White beacon, white triangular daymark point down.	
22464 *F 1376*	Kaula Tanjung Approach.	3° 23.1′ N 99° 29.6′ E	**Fl.R.** period 6s fl. 0.6s, ec. 5.4s	33 **10**	5	PORT (A) R, beacon, topmark; 16.	F.R. 3 miles SW. **Radar reflector.**
22468 *F 1379*	Tandjung Tiram.	3° 14.9′ N 99° 35.4′ E	**Fl.R.** period 4s fl. 0.5s, ec. 3.5s	36 **11**	5	Beacon, red square daymark; 33.	
22470 *F 1377*	Kuala Tanjung.	3° 22.4′ N 99° 28.1′ E	**Q.(3)W.** period 9s	39 **12**	12		
	RACON		**D(– • •)**				
22471 *F 1379.2*	Tg. Tambuntulang.	3° 10.8′ N 99° 46.1′ E	**Fl.(2)W.** period 4s fl. 0.5s, ec. 1s fl. 0.5s, ec. 2s	46 **14**	10	White beacon.	
22480 *F 1382*	-Outer bar.	3° 02.9′ N 99° 52.0′ E	**Fl.R.** period 4s fl. 1s, ec. 3s	58 **18**	10	Red beacon; 49.	
22481 *F 1379.5*	-Entrance Range, front.	3° 01.7′ N 99° 51.7′ E	**Q.(2)W.** period 4s	43 **13**	12	White beacon, white triangular daymark point up; 30.	
22481.1 *F 1379.51*	--Rear, 0.84 mile 180° from front.	3° 00.9′ N 99° 51.7′ E	**Iso.W.** period 6s	52 **16**	12	White beacon, white triangular daymark point down; 39.	
22482 *F 1383*	-Range, front.	3° 03.2′ N 99° 51.7′ E	**Q.(2)W.** period 4s	43 **13**	12	Beacon, triangular daymark point up; 30.	

The lighted aids of Indonesia are unreliable and may be extinguished, off station, missing or showing improper characteristics.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			INDONESIA (SUMATERA-EAST COAST AND ADJACENT ISLANDS)				
22482.1 *F 1383.1*	--Rear, 0.4 mile 356°41′ from front.	3° 03.7′ N 99° 51.7′ E	**Iso.W.** period 6s	59 **18**	12	Metal framework beacon, triangular daymark point down; 39.	
22484 *F 1386*	**Pulau Jemur.**	2° 52.8′ N 100° 34.1′ E	**Fl.W.** period 5s	151 **46**	**18**	White metal framework tower; 79.	Visible 090°-000°.
22484.5 *F 1388*	**Pulau Batu Mandi.**	2° 52.2′ N 100° 41.1′ E	**Fl.(2)W.** period 10s fl. 1s, ec. 1.5s fl. 1s, ec. 6.5s	141 **43**	**20**	White tower; 131.	
22485 *F 1383.8*	Tanjung Siapi-api.	2° 56.7′ N 100° 01.6′ E	**Fl.W.** period 3s fl. 0.5s, ec. 2.5s	46 **14**	12	White beacon.	
22486 *F 1390*	Tg. Leiding.	2° 45.6′ N 99° 59.5′ E	**Fl.(2)W.** period 8s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	49 **15**	12	White beacon; 49.	
22487 *F 1384.2*	Tanjung Datu.	2° 41.3′ N 100° 05.7′ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	46 **14**	10	White beacon; 33.	
22488 *F 1385*	Tangjung Lumbalumba.	2° 31.4′ N 100° 08.7′ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	78 **24**	10	White beacon; 66.	
22489 *F 1385.5*	Pulau Kantan.	2° 30.7′ N 100° 09.8′ E	**Fl.G.** period 4s fl. 0.5s, ec. 3.5s	66 **20**	12	Green beacon.	
22490 *F 1400.311*	Sinaboi Island, No 1.	2° 20.8′ N 101° 05.3′ E	**Fl.G.** period 4s fl. 0.5s, ec. 3.5s	35 **11**	11	STARBOARD (A) G, beacon, topmark.	**Radar reflector.**
22490.1 *F 1400.311-5*	-No 2.	2° 20.7′ N 101° 10.1′ E	**Fl.R.** period 4s fl. 0.5s, ec. 3.5s	35 **11**	11	PORT (A) R, beacon, topmark.	**Radar reflector.**
22491 *F 1395.2*	Paula Burung.	2° 07.0′ N 101° 37.4′ E	**Fl.R.** period 5s fl. 0.5s, ec. 4.5s	43 **13**	11	Red beacon.	
22492 *F 1395*	**Tandjung Medang.**	2° 07.4′ N 101° 39.4′ E	**Fl.W.** period 10s fl. 1s, ec. 9s	171 **52**	**19**	White metal tower; 164.	**Radar reflector.**
22496 *F 1395.5*	Morong.	1° 55.2′ N 101° 46.4′ E	**Fl.(3)W.** period 15s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 10.5s	108 **33**	11	Beacon; 82.	
22500 *F 1396*	Raleigh Shoal.	2° 06.8′ N 101° 53.1′ E	**Fl.(2)W.** period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	53 **16**	13	ISOLATED DANGER BRB, tower, topmark; 43.	**Radar reflector.**
	RACON		**O(– – –)**				
22504	*Amelia Bank Buoy.*	2° 13.0′ N 105° 18.0′ E	**L.Fl.R.** period 12s			PORT (A) R, can, topmark.	
22508 *F 1397*	Rob Roy Bank.	1° 54.5′ N 102° 03.0′ E	**Fl.(2)W.** period 10s fl. 1s, ec. 1.5s fl. 1s, ec. 6.5s	52 **16**	13	ISOLATED DANGER BRB, tower, topmark; 33.	**Radar reflector.**
	RACON		**N(– •)**				
22511.1 *F 1401.05*	Dumai.	1° 41.3′ N 101° 25.7′ E	**Fl.W.** period 4s fl. 1s, ec. 3s	92 **28**	12	White metal framework tower; 82.	

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22511.5 *F 1401.5*	Batu Panjang.	1° 42.3′ N 101° 31.3′ E	**Fl.W.** period 3s fl. 0.5s, ec. 2.5s	59 **18**	12	White beacon.	**Radar reflector.**
22512 *F 1402*	Tanjong Lebang Range F, common rear.	1° 41.5′ N 101° 48.0′ E	**Iso.W.** period 2s	52 **16**	12	White metal framework structure; 52.	
22516 *F 1402.1*	-Front E, about 300 meters 316° from common rear.	1° 40.8′ N 101° 48.6′ E	**Q.W.**	56 **17**	12	White beacon; 43.	Visible 311°48′-320°12′.
22520 *F 1401.9*	-Front G, about 1425 meters 088° from common rear.	1° 41.5′ N 101° 47.2′ E	**Q.W.**	52 **16**	11	White metal framework structure; 59.	Visible 083°48′-092°12′.
22523 *F 1402.5*	Selat Rupat A.	1° 39.5′ N 101° 50.5′ E	**Fl.(3)W.** period 15s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 10.5s	52 **16**	12	White metal framework tower; 43.	
	RACON		**D(– • •)** period 30s		5		Azimuth coverage 185°-117°. (3 cm).
22523.1 *F 1402.6*	Selat Rupat.	1° 39.3′ N 101° 38.3′ E	**L.Fl.W.** period 5s fl. 2s, ec. 3s	141 **43**	12	White beacon.	
22523.3 *F 1402.62*	-W. pier.	1° 39.7′ N 101° 38.2′ E	**Fl.Y.** period 6s fl. 1s, ec. 5s	23 **7**	6	Yellow pipe beacon.	
22523.5 *F 1402.64*	-E. pier.	1° 39.7′ N 101° 38.4′ E	**Fl.Y.** period 4s fl. 1s, ec. 3s	23 **7**	6	Yellow pipe beacon.	
22524 *F 1403*	Selat Rupat D.	1° 37.0′ N 101° 53.2′ E	**Iso.W.** period 3s	46 **14**	12	White metal framework tower; 49.	
22528 *F 1404*	Tanjung Bakau Range A, common front.	1° 32.2′ N 101° 54.9′ E	**Q.W.**	49 **15**	9	White metal framework tower; 49.	
22532 *F 1403.9*	-Rear B, about 1000 meters 164° from common front.	1° 31.7′ N 101° 55.1′ E	**Iso.W.** period 4s	95 **29**	12	White metal framework tower; 92.	Visible 159°45′-168°15′.
22536 *F 1404.1*	-Rear C, about 760 meters 271° from common front.	1° 32.2′ N 101° 54.6′ E	**Iso.W.** period 4s	95 **29**	12	White metal framework tower; 92.	Visible 265°45′-274°15′.
22542 *F 1406*	Tg. Jati.	1° 36.1′ N 101° 59.9′ E	**L.Fl.W.** period 8s fl. 2s, ec. 6s	30 **9**	13	White beacon.	
22544 *F 1407*	**Bengkalis.**	1° 27.7′ N 102° 06.8′ E	**Fl.W.** period 10s fl. 1s, ec. 9s	104 **32**	**16**	Tower; 98.	
	SUNGAI PAKNING:						
22552 *F 1411*	-Oil wharf No 1, N. head.	1° 20.8′ N 102° 09.4′ E	**F.R.**	39 **12**	8	Post; 7.	F.G. on N. and S. end of pier No. 2.
22556 *F 1413*	Sungai Siak Range, front.	1° 12.7′ N 102° 09.7′ E	**Q.W.**	20 **6**	8	Framework tower, white triangular daymark point up.	
22560 *F 1413.1*	-Rear, 1 mile 196°30′ from front.	1° 11.8′ N 102° 09.4′ E	**Fl.W.** period 3s fl. 0.3s, ec. 2.7s	46 **14**	8	White beacon, white triangular daymark point up.	
22573 *F 1412.6*	Selat Panjang, S. of Tanjung Layang.	1° 11.2′ N 102° 12.9′ E	**L.Fl.W.** period 15s fl. 3.5s, ec. 11.5s	43 **13**	11	SPECIAL Y, beacon, " X " topmark.	
22578 *F 1398*	Gosong Clark, SE.	1° 42.6′ N 102° 24.2′ E	**Fl.W.** period 3s	46 **14**	12	White beacon.	
	RACON		**K(– • –)**				

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22580 *F 1413.5*	**Tanjung Parit.**	1° 31.5′ N 102° 26.1′ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	138 **42**	**18**	White metal framework tower; 131.	
22580.7 *F 1413.7*	**Tg Sekodi.**	1° 15.9′ N 102° 30.2′ E	**Fl.W.** period 7.5s fl. 0.5s, ec. 7s	102 **31**	**15**	White beacon.	
22581 *F 1674.05*	-Pulau Karimun Kecil.	1° 10.0′ N 103° 23.3′ E	**Fl.W.** period 5s fl. 1s, ec. 4s	59 **18**	12	White beacon; 49.	
22584 *F 1674*	**Pulau Iyu Kecil** (The Brothers).	1° 11.5′ N 103° 21.1′ E	**Fl.(3)W.** period 15s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 9.5s	135 **41**	**18**	White metal framework tower; 43.	Visible 055°-325°. Obscured by Pulau Iyu Besar.
22584.2 *F 1674.1*	Karimun Besar.	1° 08.7′ N 103° 19.2′ E	**Q.(9)W.** period 15s	20 **6**	4	W. CARDINAL YBY, beacon, topmark.	
22584.4 *F 1674.4*	-S.	1° 08.1′ N 103° 19.2′ E	**Fl.(2)R.** period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 7.5s	20 **6**	4	PORT (A) R, beacon, topmark.	
22584.6 *F 1674.2*	-Assan.	1° 08.1′ N 103° 18.8′ E	**Fl.(2)G.** period 10s	20 **6**	4	STARBOARD (A) G, beacon, topmark.	
22584.8 *F 1674.3*	-Pengunju.	1° 06.8′ N 103° 19.0′ E	**Q.(2)R.** period 5s	20 **6**	4	PORT (A) R, beacon, topmark.	
22584.9 *F 1417.46*	-Karium Oil Port.	1° 04.6′ N 103° 18.6′ E	**Fl.W.** period 10s fl. 1.5s, ec. 8.5s	66 **20**	12	White beacon; 56.	**Radar reflector.**
22584.91 *F 1417.47*	--Dolphin, No 1.	1° 04.4′ N 103° 18.3′ E	**Fl.Y.** period 4s fl. 1s, ec. 3s	43 **13**	8	SPECIAL Y, beacon, topmark, 23.	**Radar reflector.**
22584.92 *F 1417.48*	---No 2.	1° 04.8′ N 103° 18.3′ E	**Fl.Y.** period 4s fl. 1s, ec. 3s	43 **13**	8	SPECIAL Y, beacon, topmark; 23.	**Radar reflector.**
22585 *F 1417.4*	-Lubukkankong, N.	1° 00.2′ N 103° 21.2′ E	**Fl.W.** period 4s fl. 0.5s, ec. 3.5s	49 **15**	12	White beacon, 30.	**Radar reflector.**
22585.1 *F 1417.42*	--W.	1° 00.2′ N 103° 21.0′ E	**Fl.R.** period 4s fl. 0.5s, ec. 3.5s	49 **15**	12	PORT (A) R, beacon, topmark, 30.	**Radar reflector.**
22585.2 *F 1417.43*	--E.	1° 00.0′ N 103° 21.2′ E	**Fl.G.** period 5s fl. 0.5s, ec. 4.5s	49 **15**	12	STARBOARD (A) G, beacon, topmark, 30.	**Radar reflector.**
22586 *F 1674.5*	**Tanjung Piai.**	1° 15.5′ N 103° 30.6′ E	**Fl.W.** period 3s	49 **15**	**16**	Round concrete tower, piles.	**Radar reflector.**
	RACON		**M(– –)**		10		(3 cm).
22587 *F 1417.6*	Tangjung Sebatak, SE.	1° 02.1′ N 103° 27.8′ E	**Fl.(2)W.** period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	39 **12**	12	ISOLATED DANGER BRB, beacon, topmark; 66.	
22588 *F 1417.5*	**Tanjung Rambut.**	0° 59.7′ N 103° 26.7′ E	**Fl.(3)W.** period 20s fl. 0.5s, ec. 3s fl. 0.5s, ec. 3s fl. 0.5s, ec. 12.5s	135 **41**	**18**	White framework tower; 131.	
22590 *F 1417*	Tanjung Menggung.	0° 48.4′ N 103° 08.3′ E	**Fl.W.** period 5s	52 **16**	10	White metal framework structure; 49.	**Radar reflector.**

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22592 *F 1694.6*	**Jangkat.**	0° 58.0′ N 103° 42.5′ E	**Fl.W.** period 5s fl. 0.7s, ec. 4.3s	121 **37**	**18**	White metal tower; 121.	**Radar reflector.**
	SELAT DURIAN:						
22596 *F 1418*	-Melvill Reef, W. side.	0° 51.9′ N 103° 36.6′ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	36 **11**	10	White metal framework tower; 26.	
22600 *F 1420*	-Middleburg Rif, N. end.	0° 51.4′ N 103° 34.3′ E	**L.Fl.R.** period 8s fl. 2s, ec. 6s	36 **11**	8	White metal framework tower; 26.	
22602 *F 1417.2*	Tg. Lubuh.	0° 39.0′ N 103° 24.1′ E	**Fl.W.** period 8s fl. 0.5s, ec. 7.5s	115 **35**	12	White beacon.	
22603 *F 1417.24*	Batu Tokong.	0° 37.5′ N 103° 27.3′ E	**Fl.G.** period 5s fl. 1s, ec. 4s	33 **10**	6	Green beacon, triangular daymark point up; 20.	**Radar reflector.**
22606 *F 1417.22*	Palua Mandah.	0° 42.6′ N 103° 31.0′ E	**Fl.W.** period 6s fl. 0.6s, ec. 5.4s	33 **10**	6	White beacon; 20.	**Radar reflector.**
22608 *F 1422*	Pulau Pelangkat, on reef.	0° 44.8′ N 103° 35.1′ E	**L.Fl.W.** period 8s fl. 2s, ec. 6s	43 **13**	10	White metal framework tower; 26.	
	-RACON		**O(– – –)**				
22610 *F 1426*	Rukan Utara (North Brother).	0° 37.4′ N 103° 45.5′ E	**Fl.W.** period 4s fl. 0.5s, ec. 3.5s	98 **30**	12	White metal framework tower; 43.	Obscured 342°-352° by Rukan Selatan and Rukan Tengah.
	-RACON		**K(– • –)**				
22612 *F 1428*	**Rukan Selatan.**	0° 32.6′ N 103° 46.4′ E	**Fl.W.** period 5s fl. 1s, ec. 4s	230 **70**	**21**	White metal framework tower; 72.	
22613 *F 1428.3*	Pilau Durai S.	0° 28.9′ N 103° 37.0′ E	**Fl.R.** period 4s fl. 0.8s, ec. 3.2s	33 **10**	6	Red beacon, red rectangular daymark; 20.	**Radar reflector.**
22613.5 *F 1428.5*	-Reef.	0° 28.1′ N 103° 37.4′ E	**Fl.W.** period 5s fl. 0.9s, ec. 4.1s	20 **6**	6	White beacon; 20.	**Radar reflector.**
22616 *F 1429*	Tanjung Datuk.	0° 00.7′ N 103° 48.3′ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	52 **16**	12	White beacon; 82.	
22617 *F 1430*	Buluh.	1° 00.9′ N 103° 55.8′ E	**F.R.**				
22618 *F 1772.1*	Batu Besar.	1° 09.7′ N 104° 08.6′ E	**Fl.W.** period 5s fl. 1s, ec. 4s	16 **5**	9	White beacon.	
22619 *F 1772.15*	-No 3.	1° 09.7′ N 104° 09.0′ E	**Fl.G.** period 4s fl. 1s, ec. 3s	30 **9**	5	STARBOARD (A) G, beacon, topmark.	
22619.5 *F 1772.2*	-No 4.	1° 09.7′ N 104° 09.1′ E	**Fl.R.** period 5s fl. 0.5s, ec. 4.5s	30 **9**	5	Red beacon, red rectangular daymark.	

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	SELAT RIAU:						
22620 *F 1772*	-Karang Galang.	1° 09.6′ N 104° 11.4′ E	**Fl.W.** period 6s fl. 0.5s, ec. 5.5s	43 **13**	10	White metal beacon, black bands; 33.	
	-RACON		**Q(– – • –)**				
22620.1 *F 1771.6*	Teluk Sebong.	1° 09.9′ N 104° 18.3′ E	**Fl.G.** period 3s	26 **8**	10	Green beacon, green triangular daymark point up.	
22620.5 *F 1772.3*	-**Kabil** Range, front.	1° 04.8′ N 104° 08.4′ E	**Iso.W.** period 2s	46 **14**	**16**	White beacon, triangular daymark point up.	Fl.(3)R. 6s 4m 5M on dolphin and Fl.(3)G. 6s 5m 5M 750 meters S.
22620.6 *F 1772.31*	--Rear, 0.65 mile 216°54′ from front.	1° 04.3′ N 104° 08.0′ E	**Iso.W.** period 4s	98 **30**	**17**	White beacon, triangular daymark point down.	
22620.7 *F 1772.36*	--Semen Bosowa.	1° 03.6′ N 104° 08.2′ E	**Fl.W.** period 3s fl. 0.5s, ec. 2.5s		10	White beacon; 39.	
22620.8 *F 1772.48*	--Tanjung Kasem.	1° 02.2′ N 104° 08.0′ E	**Fl.W.** period 3s fl. 0.5s, ec. 2.5s	33 **10**	5	White beacon; 33.	
22621 *F 1772.4*	-South Range, front.	1° 03.2′ N 104° 08.5′ E	**Q.W.**	49 **15**	**15**	White beacon, triangular daymark point up.	
22621.5 *F 1772.41*	--Rear, 325 meters 197°53′ from front.	1° 03.1′ N 104° 08.4′ E	**Oc.W.** period 3s lt. 2s, ec. 1s	79 **24**	**16**	White beacon, triangular daymark point down.	
22622 *F 1772.45*	-PLTU Pier Kabil, N.	1° 02.6′ N 104° 08.3′ E	**Fl.W.** period 3s fl. 0.5s, ec. 2.5s		10	White beacon; 39.	
22622.1 *F 1772.47*	--S.	1° 02.5′ N 104° 08.3′ E	**Fl.Y.** period 4s fl. 0.5s, ec. 3.5s		5	SPECIAL Y, beacon, topmark; 23.	
	-Tanjung Uban:						
22624 *F 1773*	--Northern pier, head.	1° 04.5′ N 104° 12.7′ E	**F.R.**				Private light.
22628	--Southern pier, head.	1° 03.9′ N 104° 12.8′ E	**F.R.**				Private light.
22632 *F 1774*	-Pulau Tanjungsau, E. point.	1° 03.0′ N 104° 11.0′ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	112 **34**	7	White metal framework tower; 36.	Visible 151°-031°.
22633 *F 1775.1*	-Pulau Nginang.	1° 01.5′ N 104° 11.2′ E	**Fl.G.** period 3s fl. 0.5s, ec. 2.5s	20 **6**	5	Green beacon, green triangular daymark point up; 20.	
22636 *F 1775*	-Pulau Buan.	1° 02.7′ N 104° 13.0′ E	**Fl.W.** period 2s fl. 0.5s, ec. 1.5s	39 **12**	8	White framework tower; 33.	
22640 *F 1776*	-Pulau Loban.	0° 58.9′ N 104° 13.6′ E	**Iso.W.R.G.** period 8s	62 **19**	W. 9 R. 6 G. 5	Black metal framework structure; 49.	W. 290°-046°, G.-089°, R.-140°, W.-176°.
	-RACON		**M(– –)**				
22641 *F 1778*	-Gosong Tula.	0° 57.6′ N 104° 15.3′ E	**Fl.R.** period 6s fl. 0.6s, ec. 5.4s	30 **9**	6	PORT (A) R, beacon, topmark; 20.	

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22642 *F 1787*	-Pulau Terkulai, SE.	0° 56.3′ N 104° 21.1′ E	**Fl.R.** period 6s fl. 0.6s, ec. 5.4s	30 **9**	6	PORT (A) R, beacon, topmark; 20.	
22643 *F 1788*	-Karang Soreh, NW.	0° 54.6′ N 104° 21.2′ E	**Fl.G.** period 5s fl. 0.5s, ec. 4.5s	30 **9**	6	STARBOARD (A) G, beacon, topmark; 20.	
22644 *F 1780*	--Pulau Tunjuk, W. side front.	0° 56.8′ N 104° 12.2′ E	**Iso.W.** period 2s	52 **16**	11	Beacon, white triangular daymark point up.	Visible 175°-185°.
22648 *F 1780.1*	--Rear, 387 meters 180° from front.	0° 56.6′ N 104° 12.3′ E	**Oc.W.** period 3s lt. 2s, ec. 1s	75 **23**	12	Beacon, white triangular daymark point down; 66.	Intensified 175°-185°. Leads through N. entrance to Riouw Strait. Partially obscured by trees 188°-267°.
22652 *F 1786*	-Pulau Terkulai, W. end.	0° 57.2′ N 104° 20.3′ E	**Iso.W.** period 4s	75 **23**	14	White metal framework tower; 66.	Visible 290°-109°.
22656 *F 1790*	-Batu Hitam.	0° 54.6′ N 104° 26.4′ E	**Iso.W.R.** period 2s	85 **26**	11	White beacon; 10.	R. 294°-059°30′, W.-197°.
22660 *F 1798*	-Pulau Pangkil.	0° 49.1′ N 104° 21.1′ E	**Fl.R.** period 3s fl. 0.5s, ec. 2.5s	62 **19**	12	Red metal framework tower; 49.	**Radar reflector.**
	-RACON		**D(– • •)**				
22664 *F 1796*	--Range, front.	0° 56.5′ N 104° 26.2′ E	**Fl.W.** period 3s fl. 1s, ec. 2s	23 **7**	6	White metal framework tower, white triangular daymark point up; 16.	
22668 *F 1796.1*	---Rear, 323 meters 004° from front.	0° 56.7′ N 104° 26.2′ E	**L.Fl.W.** period 5s fl. 2s, ec. 3s	36 **11**	4	White metal framework tower, white triangular daymark point up; 23.	
22672 *F 1806*	**-Pulau Mantang.**	0° 44.7′ N 104° 30.8′ E	**Fl.W.** period 3s	203 **62**	**20**	White metal framework tower; 65.	Visible 269°-162°, except where obscured by islands.
22676 *F 1802*	**-Pulau Karas Kecil.**	0° 44.3′ N 104° 22.2′ E	**Fl.W.** period 5s fl. 1s, ec. 4s	141 **43**	**18**	White metal framework tower; 36.	Visible 123°-018°.
22680 *F 1807*	-Maga Range, Front.	0° 47.6′ N 104° 35.3′ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	39 **12**	10	White metal framework structure, triangular daymark point up; 26.	
22684 *F 1807.1*	--Rear, 740 meters 219° from front.	0° 47.3′ N 104° 35.1′ E	**Fl.(2)W.** period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	46 **14**	10	White metal framework structure, triangular daymark point down; 33.	
22687 *F 1807.3*	Pulau Kelong.	0° 47.9′ N 104° 38.2′ E	**Fl.G.** period 5s fl. 0.5s, ec. 4.5s	39 **12**	10	Green metal framework tower, green triangular daymark point up; 33.	
22692 *F 1807.5*	Pulau Kambat.	0° 48.4′ N 104° 40.0′ E	**Fl.W.** period 3s fl. 0.5s, ec. 2.5s	16 **5**	8	White tower.	
22694 *F 1809*	**Merapas.**	0° 56.0′ N 104° 55.3′ E	**Fl.(3)W.** period 5s fl. 0.5s, ec. 0.5s fl. 0.5s, ec. 0.5s fl. 0.5s, ec. 2.5s	397 **121**	**22**	White metal framework structure; 131.	
22695 *F 1808*	Karang Heleputan.	0° 37.3′ N 105° 08.5′ E	**Fl.W.** period 6s fl. 0.5s, ec. 5.5s	56 **17**	12	White beacon; 33.	

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Section 14

Sumatera and Jawa

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			INDONESIA (SUMATERA-EAST COAST AND ADJACENT ISLANDS)				
22696 *F 1438*	**Pulau Kentar.**	0° 02.0′ N 104° 47.1′ E	**L.Fl.(2)W.** period 10s fl. 2s, ec. 2s fl. 2s, ec. 4s	400 **122**	**26**	White metal framework tower; 108.	Visible 121°-001°, except where obscured by islands.
22704 *F 1440.2*	-NW. side.	0° 02.9′ N 104° 39.0′ E	**Fl.W.** period 4s fl. 0.5s, ec. 3.5s	57 **17**	10	White metal framework tower; 49.	
22706 *K 0953*	Pulau Saya.	0° 46.8′ S 104° 56.1′ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	42 **13**	11	White beacon; 33.	
22708 *K 0954*	**Pulau Lingga.**	0° 18.3′ S 104° 59.8′ E	**Fl.W.** period 19s fl. 1s, ec. 18s	184 **56**	**20**	White metal framework tower; 33.	Visible 034°-064° and 175°-009°.
22708.5 *F 1445*	-T Kelit.	0° 00.4′ S 104° 30.4′ E	**Fl.(2)W.** period 6s fl. 0.5s, ec. 0.5s fl. 0.5s, ec. 4.5s	33 **10**	12	White beacon; 33.	
22709 *K 0956*	Daik.	0° 13.4′ S 104° 37.9′ E	**Fl.W.** period 3s fl. 0.5s, ec. 2.5s	39 **12**	11	White beacon; 33.	
22710 *K 0957*	Pulau Penuba.	0° 19.4′ S 104° 28.3′ E	**Fl.W.** period 3s fl. 0.5s, ec. 2.5s	43 **13**	11	Metal post; 13.	
22711 *K 0957.5*	-T Jagoh.	0° 20.4′ S 104° 28.0′ E	**Fl.(2)W.** period 6s fl. 0.5s, ec. 0.5s fl. 0.5s, ec. 4.5s	33 **10**	12	White beacon; 33.	
22712 *K 0958*	Dabo.	0° 30.2′ S 104° 34.2′ E	**Fl.W.** period 3s fl. 0.5s, ec. 2.5s	49 **15**	12	White beacon; 33.	
22716 *K 0981.5*	Indragiri River, Tembilahan.	0° 20.0′ S 103° 09.3′ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	33 **10**	7	White metal framework structure; 33.	
22720 *K 0981*	Tanjung Bakau.	0° 20.1′ S 103° 47.3′ E	**Fl.(2)W.** period 10s fl. 0.5s, ec. 1s fl. 0.5s, ec. 8s	49 **15**	12	White beacon.	
22722 *K 0980.4*	Kuala Enok.	0° 34.1′ S 103° 29.7′ E	**Fl.R.** period 5s fl. 0.5s, ec. 4.5s	44 **13**	12	Red metal framework structure, red rectangular daymark; 33.	
22722.2 *K 0980.5*	-W. beacon.	0° 33.5′ S 103° 27.8′ E	**Fl.G.** period 6s fl. 0.5s, ec. 5.5s	44 **13**	12	STARBOARD (A) G, structure, topmark; 33.	
22724 *K 0980*	**Pulau Muci.**	0° 32.5′ S 104° 01.6′ E	**Fl.W.** period 5s	220 **67**	**21**	White metal framework tower; 69.	Visible 284°-192°.
	RACON		**M(– –)**		**15**		Azimuth coverage 290°-190°. (3 & 10cm).
22726 *K 0975*	**Selat Berhala.**	1° 01.4′ S 104° 21.6′ E	**Fl.(3)W.** period 14s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 9.5s	138 **42**	**18**	White metal framework structure; 131.	

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	INDONESIA (SUMATERA-EAST COAST AND ADJACENT ISLANDS)						
22728 *K 0976*	Berhala.	0° 51.9′ S 104° 24.4′ E	**L.Fl.W.** period 15s fl. 5s, ec. 10s	89 **27**	14	White metal framework tower; 69.	Visible 237°-147°.
	JAMBI RIVER:						
	-S. Niur:						
22736	--*Outer Lighted Buoy.*	0° 56.0′ S 103° 53.0′ E	**L.Fl.W.** period 12s fl. 5s, ec. 7s			Red bouy, white stripes.	
22744 *K 0973*	Kuala Niur Range, front.	1° 01.5′ S 103° 48.8′ E	**Fl.W.** period 6s fl. 1s, ec. 5s	36 **11**	11	White metal framework structure, white triangular daymark point up; 36.	**Radar reflector.**
22748 *K 0973.1*	-Rear, 168° from front.	1° 03.1′ S 103° 49.1′ E	**Fl.W.** period 6s fl. 1s, ec. 5s	105 **32**	14	White metal framework structure, white triangular daymark point down; 98.	**Radar reflector.**
22752 *K 0931*	Tandjung Kampeh.	2° 11.4′ S 104° 55.0′ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	52 **16**	10	White metal framework beacon; 52.	
	AIR MUSI:						
22756 *K 0932*	-Entrance Range, No 3, front.	2° 12.9′ S 104° 56.1′ E	**Fl.W.** period 2s fl. 0.5s, ec. 1.5s	29 **9**	7	White post, platform, white triangular daymark point up; 16.	Tide gauge.
22760 *K 0932.1*	--Rear, No 4, 1450 meters 214°30′ from front.	2° 14.8′ S 104° 54.8′ E	**Oc.W.** period 4s lt. 3s, ec. 1s	42 **13**	8	White metal framework tower, white triangular daymark point down; 39.	
22764 *K 0934*	-Inner Range, No 2, front.	2° 12.9′ S 104° 55.9′ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	29 **9**	8	White metal framework structure, white triangular daymark point up; 20.	**Radar reflector.**
22768 *K 0934.1*	--Rear, No 1, 1150 meters 005°30′ from front.	2° 12.4′ S 104° 55.9′ E	**L.Fl.W.** period 5s fl. 2s, ec. 3s	49 **15**	8	White metal framework structure, white triangular daymark point down; 36.	Tide gauge.
	--RACON		**M(– –)**				(3 & 10cm).
22770 *K 0936*	-Tanjung Buyut.	2° 19.3′ S 104° 54.9′ E	**2 F.R.** (vert.)	108 **33**	6	Mast; 98.	
22772 *K 0938*	-Range, front.	2° 22.6′ S 104° 54.3′ E	**Iso.W.** period 2s	39 **12**	10	White beacon, white triangular daymark point up; 49.	
22776 *K 0938.1*	--Rear, 194°30′ from front.	2° 22.8′ S 104° 54.2′ E	**Fl.W.** period 2.5s fl. 1s, ec. 1.5s	56 **17**	10	White beacon, white triangular daymark point down; 49.	**Radar reflector.**
22780 *K 0938.4*	-Parit Range, front.	2° 26.3′ S 104° 56.5′ E	**Fl.W.** period 3s fl. 1s, ec. 2s	36 **11**	8	White beacon, white triangular daymark point up; 33.	
22784 *K 0938.41*	--Rear, 156° from front.	2° 26.5′ S 104° 56.6′ E	**Oc.W.** period 3s lt. 2s, ec. 1s	55 **17**	10	White beacon, triangular daymark point down; 49.	Visible 151°-157°.
22788 *K 0939*	-NE. of Kramat.	2° 31.3′ S 104° 56.4′ E	**Fl.R.** period 4s fl. 0.5s, ec. 3.5s	46 **14**	6	Red metal framework tower, red rectangular daymark; 36.	
22792 *K 0939.2*	-Singris Island.	2° 34.3′ S 104° 56.8′ E	**Fl.R.** period 5s fl. 0.5s, ec. 4.5s	33 **10**	7	PORT (A) R, beacon, topmark; 33.	
22796 *K 0939.6*	-Sedumara.	2° 36.4′ S 104° 57.4′ E	**L.Fl.R.** period 6s fl. 2s, ec. 4s		7	PORT (A) R, beacon, topmark; 33.	

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			INDONESIA (SUMATERA-EAST COAST AND ADJACENT ISLANDS)				
22800 *K 0939.64*	-Pegadjahan.	2° 37.0′ S 104° 56.4′ E	**L.Fl.W.** period 7s fl. 2s, ec. 5s	39 **12**	7	White beacon; 33.	
22808 *K 0939.8*	-Upang.	2° 42.7′ S 104° 57.4′ E	**Fl.R.** period 3s fl. 1s, ec. 2s	39 **12**	7	Red beacon, red rectangular daymark; 33.	
22812 *K 0940*	-E. bank S. of Vpang.	2° 45.8′ S 104° 57.3′ E	**Fl.W.** period 2s fl. 0.5s, ec. 1.5s	20 **6**	6	White metal framework tower, triangular daymark point down.	
22816 *K 0940.4*	--W. bank.	2° 46.2′ S 104° 56.5′ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	20 **6**	8	White beacon, white triangular daymark point up.	
22824 *K 0941.4*	-Jaran Range, front.	2° 48.7′ S 104° 54.7′ E	**Fl.W.** period 3s fl. 0.5s, ec. 2.5s	33 **10**	6	White beacon, white triangular daymark point up; 33.	
22828 *K 0941.41*	--Rear, 475 meters 218° from front.	2° 49.0′ S 104° 54.4′ E	**Fl.W.** period 4s fl. 1s, ec. 3s	52 **16**	8	White metal framework tower, white triangular daymark point down; 49.	
22832 *K 0942*	-Burung.	2° 51.5′ S 104° 53.7′ E	**L.Fl.G.** period 8s fl. 3s, ec. 5s	33 **10**	6	STARBOARD (A) G, beacon, topmark; 33.	
22836 *K 0943*	-N. of Ayer Kumbang.	2° 54.8′ S 104° 54.2′ E	**Fl.R.** period 5s fl. 0.5s, ec. 4.5s	46 **14**	8	White metal framework tower, concrete base; 26.	
22840 *K 0943.2*	-Ayer Kumbang.	2° 55.6′ S 104° 54.1′ E	**Fl.R.** period 5s fl. 0.5s, ec. 4.5s	46 **14**	6	Red beacon, concrete base; 36.	
22844 *K 0943.4*	-N. of Palau Banjar.	2° 56.9′ S 104° 52.2′ E	**L.Fl.W.** period 5s fl. 2s, ec. 3s	52 **16**	6	White beacon; 49.	
22848 *K 0945*	-Mariana, No 3.	2° 57.0′ S 104° 53.3′ E	**L.Fl.W.** period 8s fl. 3s, ec. 5s	46 **14**	7	White beacon, concrete base; 36.	

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			INDONESIA (BANGKA)				
22856 *K 1000*	**Tanjung Ular.**	1° 57.6′ S 105° 07.6′ E	**Fl.(2)W.** period 19.5s fl. 1.5s, ec. 2.5s fl. 1.5s, ec. 14s	66 **20**	**25**	White metal framework tower; 131.	Visible 015°-230°.
22860 *K 1001*	Frederick Hendrik Rocks, entrance to Selat Banka.	1° 57.8′ S 104° 57.2′ E	**Fl.(2)W.** period 5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 2.5s	46 **14**	8	ISOLATED DANGER BRB, beacon, topmark.	
22862 *K 1001.5*	Ujung Batakarang, Sumatera.	1° 59.3′ S 104° 42.7′ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	69 **21**	13	White beacon.	
22864 *K 0998*	**Tg. Kelian.**	2° 05.1′ S 105° 07.9′ E	**Fl.W.** period 5s fl. 0.2s, ec. 4.8s	174 **53**	**20**	White stone tower, red bands; 184.	Visible 230°-159°30′.
22868 *K 0996*	**Muntok.**	2° 04.5′ S 105° 09.6′ E	**Fl.W.** period 3s fl. 0.5s, ec. 2.5s	105 **32**	**20**	White metal framework tower; 98.	

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			INDONESIA (BANGKA)				
22872 *K 0993*	Tg. Selokan.	2° 23.1′ S 105° 36.9′ E	**Fl.(3)G.** period 15s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 9.5s	33 **10**	6	Green beacon; 26.	
22876 *K 0992*	**Pulau Pelapasan.**	2° 23.2′ S 105° 45.1′ E	**Fl.(3)W.** period 30s fl. 0.5s, ec. 4.5s fl. 0.5s, ec. 4.5s fl. 0.5s, ec. 19.5s	217 **66**	**21**	White tower; 115.	Visible 288°06′-288° and partially obscured eastward by other Nanka Islands.
	RACON		**NK(– • – • –)** period 120s		**16**		Azimuth coverage 300°-155°. (3cm).
22878 *K 0991.3*	Tanjung Bedawu.	2° 35.5′ S 105° 53.8′ E	**Fl.(2)W.** period 15s fl. 0.5s, ec. 4.5s fl. 0.5s, ec. 9.5s	72 **22**	14	White beacon.	
22880 *K 0994*	Karang Brom-Brom.	2° 12.0′ S 105° 20.1′ E	**Fl.R.** period 5s fl. 0.5s, ec. 4.5s	49 **15**	7	Red metal tower; 33.	
22884 *K 0991*	Tanjung Tapa.	2° 40.9′ S 105° 47.1′ E	**Fl.G.** period 5s fl. 0.5s, ec. 4.5s	52 **16**	6	STARBOARD (A) G, tower, topmark; 39.	
22896 *K 0990*	Tanjung Lelari.	2° 48.9′ S 105° 57.0′ E	**Fl.R.** period 10s fl. 1s, ec. 9s	43 **13**	12	PORT (A) R, tower, topmark; 33.	
22904 *K 0988*	**Pulau Besar.**	2° 52.7′ S 106° 08.5′ E	**Fl.(2)W.** period 20s fl. 0.3s, ec. 4.7s fl. 0.3s, ec. 14.7s	200 **61**	**19**	White octagonal metal framework tower, brown top, white cupola; 187.	Visible 107°06′-107°. Partially obscured beyond Tanjung Lelari 107°-165°.
22908 *K 0984*	**Toboali.**	3° 00.9′ S 106° 27.0′ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	105 **32**	**16**	White metal framework tower; 98.	F.R. on radio mast 4 miles ENE.
22912 *K 0985*	Melvill Bank.	3° 02.4′ S 106° 15.1′ E	**Fl.(3)G.** period 9s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 4.5s	49 **15**	7	STARBOARD (A) G, beacon, topmark; 39.	**Radar reflector.**
22914 *K 0986*	Eastern Bank.	3° 00.5′ S 106° 18.5′ E	**Fl.R.** period 5s fl. 0.5s, ec. 4.5s	49 **15**	4	PORT (A) R, beacon, topmark; 33.	**Radar reflector.**
22916 *K 0983*	**-Pulau Maspari** (Lucipara).	3° 13.1′ S 106° 13.2′ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	131 **40**	**18**	White metal framework structure; 157.	
22924 *K 0982*	**Dapur.**	3° 08.0′ S 106° 30.9′ E	**Fl.W.** period 10s	135 **41**	**18**	White metal framework tower; 46.	
	RACON		**W(• – –)**				
22926 *K 0981.9*	Tanjung Baginda.	3° 05.1′ S 106° 44.3′ E	**Fl.(2)W.** period 15s fl. 0.5s, ec. 4.5s fl. 0.5s, ec. 9.5s	75 **23**	14	White beacon.	
22928 *K 1011*	Karang Perlang.	2° 26.8′ S 106° 28.5′ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	44 **13**	12	White metal framework tower; 39.	
22932 *K 1012*	Tanjung Berikat.	2° 34.4′ S 106° 50.8′ E	**Fl.(3)W.** period 15s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 9.5s	108 **33**	12	White tower; 46.	Visible 090°-000°.

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			INDONESIA (BANGKA)				
22933 *K 1012.5*	Berikat.	2° 27.9′ S 106° 58.2′ E	**Fl.(2)W.** period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	49 **15**	13	White beacon; 33.	
22934 *K 1010.7*	Pulou Beboear.	2° 16.9′ S 106° 26.8′ E	**Fl.(3)W.** period 10s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 6.5s	141 **43**	12	White framework tower; 131.	
22936 *K 1010.5*	Karang Teali.	2° 14.0′ S 106° 17.2′ E	**Fl.G.** period 4s fl. 0.5s, ec. 3.5s	49 **15**	6	STARBOARD (A) G, beacon, topmark; 33.	
22940 *K 1009*	Tg. Bunga.	2° 07.8′ S 106° 10.8′ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	98 **30**	8	White metal framework tower; 66.	
22944 *K 1010*	Karang Gosong.	2° 08.5′ S 106° 13.8′ E	**Fl.G.** period 5s fl. 0.5s, ec. 4.5s	43 **13**	6	STARBOARD (A) G, beacon, topmark; 26.	
22946 *K 1008*	Pangkal Pinang Range, front.	2° 05.6′ S 106° 10.0′ E	**Fl.W.** period 3s fl. 0.3s, ec. 2.7s	26 **8**	5	White beacon, white triangular daymark point up.	
22946.5 *K 1008.1*	-Rear, 926 meters 283°48′ from front.	2° 05.6′ S 106° 09.6′ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	46 **14**	7	White beacon, white triangular daymark point down; 46.	
22948 *K 1007*	Karang Merah.	2° 01.4′ S 106° 15.5′ E	**Fl.(2)G.** period 15s fl. 0.5s, ec. 4.5s fl. 0.5s, ec. 9.5s	39 **12**	8	Green beacon; 39.	**Radar reflector.**
22952 *K 1005*	Tg. Raja.	1° 54.0′ S 106° 11.1′ E	**Fl.W.** period 6s fl. 0.5s, ec. 5.5s	98 **30**	14	White beacon; 39.	**Radar reflector.**
22956 *K 1004*	**Tg. Tuing.**	1° 36.1′ S 106° 02.7′ E	**Fl.W.** period 6s fl. 0.5s, ec. 5.5s	164 **50**	**18**	White beacon; 39.	**Radar reflector.**
22957 *K 1005.4*	Karang Hidragraf Timur.	2° 01.1′ S 106° 32.5′ E	**Fl.W.** period 4s fl. 0.5s, ec. 3.5s	42 **13**	12	White fiberglass beacon; 33.	**Radar reflector.**
22958 *K 1005.7*	Karang Van Sittard.	2° 11.6′ S 106° 44.8′ E	**Fl.(2)W.** period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	42 **13**	12	ISOLATED DANGER BRB, beacon, topmark.	**Radar reflector.**
22960 *K 1006*	General Elliot Reef.	2° 03.7′ S 106° 18.9′ E	**L.Fl.W.** period 18s fl. 3s, ec. 15s	49 **15**	11	White metal framework tower; 33.	**Radar reflector.**
	RACON		**D(– • •)**				
22964 *K 1006.5*	Kg. Miang.	2° 05.1′ S 106° 17.7′ E	**Fl.R.** period 4s fl. 0.5s, ec. 3.5s	49 **15**	7	Red framework tower; 33.	Visible 160°-280°.
	RACON		**D(– • •)**		**15**		Azimuth coverage 160°-280°. (3 & 10cm).
22968 *K 1002*	**Teluk Klabat,** Pulau Penyusu.	1° 31.8′ S 105° 41.3′ E	**Fl.W.** period 7.5s	184 **56**	**18**	White metal tower; 131.	Visible 090°-262°.
22969 *K 1003*	-Mantong Range, front.	1° 37.4′ S 105° 44.0′ E	**Q.W.**	39 **12**	12	White metal framework tower; 33.	**Radar reflector.**
22969.1 *K 1003.1*	--Rear.	1° 37.6′ S 105° 44.2′ E	**Iso.W.** period 4s	105 **32**	**15**	White metal framework tower; 98.	

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			INDONESIA (BELITUNG)				
22972 *K 1020*	**Pulau Simedang.**	3° 19.1′ S 107° 12.7′ E	**Fl.(4)W.** period 25s fl. 0.5s, ec. 3.5s fl. 0.5s, ec. 3.5s fl. 0.5s, ec. 3.5s fl. 0.5s, ec. 12.5s	200 **61**	**20**	White metal tower; 187.	**Radiobeacon.**
22972.2 *K 1020.5*	Karang Batu Malang.	3° 14.9′ S 107° 28.3′ E	**Fl.W.** period 5s fl. 1s, ec. 4s	43 **13**	12	White beacon; 33.	**Radar reflector.**
22972.25 *K 1020.7*	Kennedy Island.	3° 20.3′ S 107° 42.1′ E	**Fl.(2)W.** period 15s fl. 0.5s, ec. 4.5s fl. 0.5s, ec. 9.5s	72 **22**	14	White beacon.	
22972.3 *K 1021.6*	Karang-Karang Baginda.	3° 09.5′ S 107° 02.5′ E	**Fl.G.** period 7s fl. 1s, ec. 6s	49 **15**	13	Green beacon.	
22972.5 *K 1021.8*	Batu Medang.	3° 22.2′ S 106° 55.7′ E	**Fl.W.** period 6s fl. 0.5s, ec. 5.5s	49 **15**	13	White beacon.	
22973 *K 1013*	Karang Suji.	3° 34.8′ S 106° 55.1′ E	**Fl.(2)W.** period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 7.5s	39 **12**	12	White beacon.	
22974 *K 1021*	Karang Genting.	3° 33.2′ S 107° 41.3′ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	33 **10**	11	White beacon.	
22974.5 *K 1021.5*	Pulau Kebatu.	3° 47.7′ S 108° 03.0′ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	49 **15**	13	White beacon.	
22975 *K 1024.2*	Karang Tominkor.	2° 55.7′ S 107° 07.5′ E	**Fl.W.** period 3s fl. 0.5s, ec. 2.5s	43 **13**	12	White beacon.	
22975.5 *K 1024.1*	Karang Pandan.	2° 53.3′ S 107° 12.4′ E	**Fl.(2)W.** period 10s fl. 0.8s, ec. 1.2s fl. 0.8s, ec. 7.2s	43 **13**	12	ISOLATED DANGER BRB, beacon, topmark.	**Radar reflector.**
22976 *K 1024*	**Tanjung Ajer Lantjoer.**	2° 53.0′ S 107° 20.5′ E	**Fl.(3)W.** period 20s fl. 1s, ec. 3s fl. 1s, ec. 3s fl. 1s, ec. 11s	203 **62**	**21**	White metal tower; 88.	
22976.5 *K 1024.05*	Langir Island.	2° 48.3′ S 107° 22.1′ E	**Fl.(2)W.** period 15s fl. 0.5s, ec. 4.5s fl. 0.5s, ec. 9.5s	72 **22**	14	White beacon.	
22977 *K 1024.5*	**Pu Celaka.**	2° 52.4′ S 107° 00.8′ E	**Fl.(2)W.** period 8s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	108 **33**	**16**	White beacon.	Visible 322°-218°.
22977.5 *K 1024.7*	Selemar.	2° 59.3′ S 107° 06.4′ E	**Fl.G.** period 5s fl. 1s, ec. 4s	46 **14**	13	Green beacon.	
22978 *K 1025*	Tg. Murung.	3° 01.9′ S 106° 53.7′ E	**Fl.W.** period 10s fl. 1s, ec. 9s	295 **90**	10	White beacon; 98.	Visible 192°-070°.
22980 *K 1022*	Kasenga.	3° 02.8′ S 107° 21.0′ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	66 **20**	10	White beacon, red bands; 59.	**Radar reflector.**

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			INDONESIA (BELITUNG)				
	PULAU BELITUNG:						
22984 *K 1030*	**-Pulau Langkuas.**	2° 32.2′ S 107° 37.2′ E	**Fl.W.** period 7.5s fl. 0.2s, ec. 7.2s	200 **61**	**20**	White metal tower; 187.	Visible 003°-267°, except where obscured by islands.
22988 *K 1032*	-Northeast Coast.	2° 37.3′ S 108° 12.5′ E	**Fl.(2)W.** period 8s	39 **12**	11	White metal tower; 33.	Obscured in places by trees.
22990 *K 1032.5*	-Manggar.	2° 50.8′ S 108° 17.6′ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	72 **22**	14	White beacon.	
22998 *K 1028.8*	**Tanjungpandan Harbor.**	2° 44.8′ S 107° 37.6′ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	79 **24**	**18**	White beacon.	
23000 *K 1028*	-Tanjung Pandan.	2° 44.2′ S 107° 35.8′ E	**Q.(2)G.** period 8s	43 **13**	6	Green metal framework tower; 33.	Visible 064°-328°.
23002 *K 1028.7*	-Beacon.	2° 44.0′ S 107° 35.6′ E	**Fl.(2)R.** period 10s	23 **7**	6	Red beacon.	

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			INDONESIA (SUMATERA-EAST COAST)				
23004 *K 0928*	**Panjurit.**	5° 53.0′ S 105° 47.1′ E	**Fl.(3)W.** period 8s	177 **54**	**18**	White beacon; 19.	
	RACON		**M(– –)**				
23008 *K 0928.5*	Dau Island.	5° 52.0′ S 105° 46.0′ E	**Fl.R.** period 4s fl. 0.5s, ec. 3.5s	26 **8**	6	Red beacon; 20.	
23009 *K 0928.55*	-Off SW. end.	5° 52.5′ S 105° 45.8′ E	**Q.(6)+L.Fl.W.** period 15s	33 **10**	8	S. CARDINAL YB, beacon, topmark.	
23009.2 *K 0928.6*	Gosong Barak.	5° 52.2′ S 105° 46.5′ E	**Q.Y.**	33 **10**	6	SPECIAL Y, beacon, “X” topmark.	
23009.4 *K 0928.65*	Tanjung Katila.	5° 51.8′ S 105° 45.5′ E	**Q.(2)G.** period 5s	33 **10**	6	STARBOARD (A) G, beacon, topmark.	
23009.6 *K 0928.7*	Bakauhuni.	5° 52.2′ S 105° 45.1′ E	**Fl.(2)G.** period 5s	33 **10**	6	STARBOARD (A) G, beacon, topmark.	
23012 *K 0929*	Kelapa Island.	5° 52.0′ S 105° 45.0′ E	**Fl.(2)R.** period 6s	29 **9**	6	Red beacon; 20.	
23013 *K 0929.2*	-SW end.	5° 52.6′ S 105° 45.2′ E	**V.Q.(6)+L.Fl.W.** period 10s	33 **10**	8	S. CARDINAL YB, beacon, topmark.	
23013.5 *K 0929.3*	Karang Ujung Kanggalan.	5° 47.8′ S 105° 48.3′ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	43 **13**	12	White beacon.	
23014 *K 0929.5*	**Pulau Mundu.**	5° 40.8′ S 105° 50.2′ E	**Fl.W.** period 6s fl. 0.3s, ec. 5.7s	75 **23**	**16**	White beacon.	
23015 *K 0929.6*	Maginggai, S. of Tg. Penet.	5° 21.3′ S 105° 49.0′ E	**Fl.W.** period 3s fl. 0.5s, ec. 2.5s	46 **14**	11	White beacon.	

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			INDONESIA (SUMATERA-SOUTH COAST)				
23016 *K 0927*	Tanjung Tua.	5° 54.4′ S 105° 43.0′ E	**Fl.(3)W.** period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	164 **50**	12	White metal framework tower; 49.	
23020 *K 0926.5*	**Serdang.**	5° 49.3′ S 105° 23.7′ E	**Fl.(2)W.** period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	200 **61**	**21**	White metal framework tower; 131.	
23022 *F 0927.5*	Pulau Rakata.	6° 09.7′ S 105° 27.5′ E	**Fl.W.** period 4s fl. 1s, ec. 3s	43 **13**	12	White beacon.	
23024 *K 0926*	Palau Sebuku, Cukuh Banding.	5° 50.9′ S 105° 31.9′ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	116 **35**	11	White metal framework tower; 33.	Visible 095°-324°.
23028 *K 0925*	Pulau Tiga.	5° 49.2′ S 105° 32.9′ E	**Fl.(2)W.** period 6s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 3.5s	98 **30**	12	ISOLATED DANGER BRB, beacon, topmark; 49.	
23036 *K 0923.5*	Ujung Cukucimanuk.	5° 39.3′ S 105° 28.3′ E	**Fl.(2)W.** period 7s	75 **23**	10	White beacon; 49.	
23040 *K 0923*	Cendung Laut.	5° 33.9′ S 105° 20.6′ E	**Fl.G.** period 5s fl. 0.5s, ec. 4.5s	92 **28**	7	Green metal framework structure; 39.	
23044 *K 0922*	**Koeala.**	5° 27.5′ S 105° 18.9′ E	**L.Fl.W.R.** period 5s fl. 2s, ec. 3s	134 **41**	**20**	White metal framework tower; 131.	R. 052°-057°, W.-067°, R.-072°.
23048 *K 0920*	Tanjungkarang-Telukbetung, reef.	5° 28.1′ S 105° 16.5′ E	**Fl.(2)R.** period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 7.5s	60 **18**	7	Red metal framework tower; 43.	
23052 *K 0920.5*	**-Kunjit.**	5° 26.8′ S 105° 16.9′ E	**Fl.W.** period 3s fl. 1s, ec. 2s	144 **44**	**18**	White beacon; 131.	
23058 *K 0922.2*	-Panjang Entrance, N. side.	5° 27.6′ S 105° 18.7′ E	**Fl.Y.** period 5s	56 **17**	12	Iron framework beacon.	**Radar reflector.**
23060 *K 0922.6*	--S. side.	5° 27.9′ S 105° 18.7′ E	**Fl.G.** period 5s fl. 0.5s, ec. 4.5s	23 **7**	12	Green metal framework beacon.	**Radar reflector.**
23064 *K 0923.2*	**-Maitem.**	5° 35.8′ S 105° 15.0′ E	**Fl.W.** period 8s fl. 0.4s, ec. 7.6s	138 **42**	**18**	White structure.	
23076 *K 0914*	**Tg. Cukuhbalambing.**	5° 55.5′ S 104° 33.6′ E	**Fl.(2)W.** period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	207 **63**	**20**	White metal tower, dwelling; 200.	Visible 275°06′-105° and 108°-138°18′.
	RACON		**B(– • • •)**				(3 & 10cm).
23080 *K 0824*	-Cocos Islands.	12° 05.4′ S 96° 52.6′ E	**Fl.(2)W.** period 8s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	19 **6**	8	Metal framework tower; 23.	
23086 *K 0911*	**Ug. Cukubatuberagam.**	5° 38.2′ S 104° 18.0′ E	**Fl.W.** period 7.5s fl. 0.5s, ec. 7s	105 **32**	**16**	White beacon.	
23088 *K 0910*	**Ug. Walor.**	5° 12.8′ S 103° 54.3′ E	**L.Fl.W.** period 5s fl. 2s, ec. 3s	138 **42**	**17**	White metal framework structure; 33.	

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			INDONESIA (SUMATERA-SOUTH COAST)				
23092 *K 0906*	Krui, on Salobu Point.	5° 11.1′ S 103° 56.0′ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	116 **35**	7	White metal framework tower; 43.	Visible 044°-123°. F.G. shown from W. mole, F.R. from E. mole.
23096 *K 0904*	Teluk Krui, Pulau Pisang.	5° 07.3′ S 103° 51.0′ E	**L.Fl.W.** period 15s fl. 3s, ec. 12s	250 **76**	12	White metal framework tower; 102.	Visible 270°-150°.
23098 *K 0900*	Tanjung Linau.	4° 51.0′ S 103° 24.4′ E	**Fl.(3)W.** period 15s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 10.5s	98 **30**	13	White beacon; 98.	
23099 *K 0898*	Tanjung Bandar.	4° 48.6′ S 103° 20.7′ E	**Fl.W.** period 3s fl. 0.5s, ec. 2.5s	59 **18**	12	White metal framework tower; 49.	
23100 *K 0897*	Tanjung Manna.	4° 29.0′ S 102° 53.9′ E	**Fl.(3)W.** period 15s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 10.5s	98 **30**	12	White beacon.	
23101 *K 0895*	**Pulau Enggano.**	5° 20.8′ S 102° 16.5′ E	**Fl.(4)W.** period 20s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 12s	131 **40**	**20**	White metal framework structure; 131.	
23101.5 *K 0895.4*	-Beacon.	5° 20.4′ S 102° 17.5′ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	39 **12**	12	White beacon; 33.	

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			INDONESIA (SUMATERA-WEST COAST)				
23101.7 *K 0883.95*	**Pulau Mega.**	4° 00.1′ S 101° 03.0′ E	**Fl.W.** period 10s fl. 0.5s, ec. 9.5s	108 **33**	**16**	White beacon.	
	PULAUBAAI:						
23102 *K 0885.5*	-Range, front.	3° 53.9′ S 102° 16.7′ E	**Q.W.**	26 **8**	8	White beacon, white triangular daymark point up; 26.	**Radar reflector.**
23102.2 *K 0885.51*	--Rear, 270 meters 147° from front.	3° 55.5′ S 102° 17.6′ E	**Fl.W.** period 3s fl. 1s, ec. 2s	39 **12**	8	White beacon, white triangular daymark point down; 39.	**Radar reflector.**
23102.4 *K 0885*	-W. breakwater, head.	3° 53.8′ S 102° 16.8′ E	**Fl.G.** period 3s fl. 0.5s, ec. 2.5s	46 **14**	12	STARBOARD (A) G, beacon, topmark; 30.	**Radar reflector.**
23102.6 *K 0885.2*	-E. breakwater, head.	3° 53.9′ S 102° 16.6′ E	**Fl.R.** period 2s fl. 0.5s, ec. 1.5s	46 **14**	12	Red beacon; 30.	**Radar reflector.**
	BENGKULU:						
23104 *K 0884*	**-Pulau Tikus.**	3° 50.6′ S 102° 10.6′ E	**Iso.W.** period 10s	109 **33**	**16**	Red and white metal framework tower; 98.	
23108 *K 0893*	-Lempuyang.	3° 49.4′ S 102° 16.9′ E	**Fl.W.R.** period 2s	56 **17**	12	White fiberglass beacon; 33.	W. 060°-035°, R.-060°. **Radar reflector.**

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			INDONESIA (SUMATERA-WEST COAST)				
23112 *K 0883.8*	Serangai.	3° 25.0′ S 101° 53.7′ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	69 **21**	14	White beacon.	
23115 *K 0883.65*	Tg. Bio.	3° 20.7′ S 100° 27.9′ E	**Fl.W.** period 4s fl. 0.5s, ec. 3.5s	69 **21**	13	White beacon.	**Radar reflector.**
23116 *K 0883.75*	**Simonga.**	3° 15.8′ S 100° 34.2′ E	**Fl.W.** period 8s fl. 0.5s, ec. 7.5s	135 **41**	**18**	White tower.	
23120 *K 0883.6*	P. Silau.	3° 12.9′ S 100° 18.0′ E	**Fl.W.** period 5s fl. 1.5s, ec. 3.5s	69 **21**	13	White beacon.	**Radar reflector.**
23124 *K 0883.7*	Sangingi.	3° 07.8′ S 100° 28.6′ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	46 **14**	12	White beacon.	
23126 *K 0883.55*	Tg. Laggaisao.	3° 02.5′ S 100° 28.0′ E	**Fl.W.** period 4s fl. 0.5s, ec. 3.5s	39 **12**	13	White beacon.	
23128 *K 0884.7*	Mukomuko.	2° 32.9′ S 101° 05.0′ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	82 **25**	12	White beacon; 82.	
23132 *K 0883*	Sikakap Strait.	2° 46.6′ S 100° 13.5′ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	164 **50**	10	White metal framework tower; 20.	
23134 *K 0883.4*	-N. side.	2° 46.5′ S 100° 13.0′ E	**Fl.W.** period 3s fl. 1s, ec. 2s	49 **15**	10	Beacon; 49.	
23135 *K 0883.5*	Pulau Nusa.	2° 51.6′ S 100° 09.0′ E	**Fl.W.** period 4s fl. 0.5s, ec. 3.5s	39 **12**	12	White beacon.	
23135.5 *K 0879*	Tg. Pinangpinang.	2° 30.2′ S 99° 59.6′ E	**Fl.W.** period 5s fl. 0.9s, ec. 4.1s	39 **12**	11	White beacon.	
23135.7 *K 0878.5*	Tg. Kinapet.	2° 24.1′ S 99° 51.7′ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	69 **21**	14	White beacon.	
23136 *K 0878.1*	Palau Sipura.	2° 11.2′ S 99° 44.2′ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	46 **14**	6	White framework tower; 39.	
23137 *K 0878*	Bukit Siuban.	2° 10.6′ S 99° 43.7′ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	79 **24**	14	White fiberglass tower; 33.	
23138 *K 0877.8*	-Siburu.	1° 59.7′ S 99° 36.3′ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	46 **14**	12	White beacon.	
23140 *K 0884.2*	Pulau Katangkatang.	1° 53.3′ S 100° 34.2′ E	**Fl.(3)W.** period 22s fl. 1s, ec. 2s fl. 1s, ec. 2s fl. 1s, ec. 15s	66 **20**	13	White metal framework tower; 66.	
23142 *K 0884.5*	Gosong Sumedang.	1° 50.3′ S 100° 46.2′ E	**Fl.W.** period 3s fl. 0.6s, ec. 2.4s	43 **13**	11	White beacon.	
23144 *K 0877*	**Siberut Bay.**	1° 35.7′ S 99° 12.6′ E	**Fl.W.** period 7s fl. 0.5s, ec. 6.5s	147 **45**	**15**	White framework tower; 39.	
23148 *K 0877.5*	-Tg. Sikabai.	1° 35.5′ S 99° 16.0′ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	46 **14**	12	White beacon.	

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			INDONESIA (SUMATERA-WEST COAST)				
23150 *K 0877*	--**Muarasiberut.**	1° 35.7′ S 99° 12.7′ E	**Fl.W.** period 7s fl. 0.5s, ec. 6.5s	148 **45**	**15**	White framework tower; 39.	
23151 *K 0876.5*	-Simalepet.	1° 33.7′ S 99° 12.3′ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	49 **15**	12	White beacon.	
23152 *K 0876*	-Sikabaloan.	1° 07.0′ S 99° 00.0′ E	**Fl.W.** period 7s fl. 0.5s, ec. 6.5s	42 **13**	10	White beacon; 39.	
23152.5 *K 0875.8*	-Tabekat Bay.	1° 04.6′ S 98° 57.4′ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	49 **15**	12	White beacon.	
23153 *K 0875.7*	**Tg. Sigep,** Pulau Siberut.	0° 54.6′ S 98° 54.6′ E	**Fl.W.** period 5s	144 **44**	**16**	White round concrete structure.	
23153.5 *K 0876.2*	Tg. Sakaladat.	1° 11.2′ S 98° 36.5′ E	**Fl.W.** period 4s fl. 0.5s, ec. 3.5s	69 **21**	13	White beacon.	**Radar reflector.**
23153.8 *K 0877.6*	**Pulau Ngiau.**	1° 51.6′ S 99° 04.7′ E	**Fl.W.** period 5s fl. 1s, ec. 4s	108 **33**	**16**	White beacon.	
23154 *K 0875*	**Pulau Karaba Kecil.**	1° 36.3′ S 100° 33.3′ E	**Fl.(3)W.** period 20s	144 **44**	**18**	White tower; 131.	
23156 *K 0874*	Pulau Nuamuk, E. side.	1° 16.0′ S 100° 18.0′ E	**Fl.(2)W.** period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 7.5s	105 **32**	7	White metal framework tower; 102.	Visible 162°-033°.
23158 *K 0873*	Pulau Brintanggar.	1° 08.9′ S 100° 19.9′ E	**Fl.W.** period 5s	381 **116**	10	White framework tower; 49.	
23158.5 *K 0872.5*	Pulau Sirandah.	1° 07.2′ S 100° 20.3′ E	**Fl.W.** period 3s fl. 0.5s, ec. 2.5s	39 **12**	12	White beacon; 33.	
23159 *K 0861.5*	Gosong Gadang.	1° 03.0′ S 100° 15.5′ E	**Q.(3)W.** period 6s	56 **17**	10	White framework tower; 49.	**Radar reflector.**
23160 *K 0862*	Marlbro Reef.	1° 02.2′ S 100° 21.3′ E	**Fl.R.** period 3s fl. 0.5s, ec. 2.5s	39 **12**	12	Red beacon; 39.	
	RACON		**B(– • • •)**				
23161 *K 0850.5*	Teluk Bungus.	1° 02.6′ S 100° 23.7′ E	**Fl.W.** period 3s	56 **17**	6	White metal framework tower; 49.	**Radar reflector.**
23162 *K 0851*	-Karang Sandung.	1° 03.2′ S 100° 23.7′ E	**Fl.W.** period 5s	52 **16**	12	Black beacon, red bands, double ball topmark.	
23162.2 *K 0851.5*	-Ujung Passar Cindakir.	1° 03.3′ S 100° 24.2′ E	**Fl.R.** period 2s fl. 0.5s, ec. 1.5s	46 **14**	11	PORT (A) R, beacon, topmark.	**Radar reflector.**
23162.4 *K 0852*	-Passar Batung.	1° 03.8′ S 100° 24.3′ E	**Fl.W.** period 3s fl. 0.5s, ec. 2.5s	39 **12**	11	White beacon.	**Radar reflector.**
23162.6 *K 0852.5*	-Ujung Sadah.	1° 03.9′ S 100° 23.9′ E	**Fl.G.** period 3s fl. 0.5s, ec. 2.5s	46 **14**	11	STARBOARD (A) G, beacon, topmark.	**Radar reflector.**
23162.8 *K 0853*	-Ujung Cino.	1° 04.2′ S 100° 23.9′ E	**Fl.G.** period 5s fl. 0.5s, ec. 4.5s	46 **14**	11	STARBOARD (A) G, beacon, topmark.	**Radar reflector.**

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			INDONESIA (SUMATERA-WEST COAST)				
23164 *K 0864*	**Ujung Batumandi (Ujung Sungei Bramei).**	1° 02.4′ S 100° 22.8′ E	**Fl.(3)W.** period 20s fl. 0.3s, ec. 2.2s fl. 0.3s, ec. 2.2s fl. 0.3s, ec. 14.7s	528 **161**	**26**	White tower, stone base; 46.	
	RACON		**M(– –)**				(3 & 10cm).
23165 *K 0858*	Pulau Toran.	1° 02.3′ S 100° 10.5′ E	**Fl.W.** period 4s fl. 0.5s, ec. 3.5s	56 **17**	12	White metal framework tower; 49.	**Radar reflector.**
23168 *K 0871*	Beting Tampek.	1° 00.4′ S 100° 23.1′ E	**Fl.G.** period 5s fl. 0.5s, ec. 4.5s	34 **10**	8	White framework tower.	
23172 *K 0868*	Teluk Bayur.	1° 00.3′ S 100° 22.6′ E	**Fl.R.** period 5s fl. 0.5s, ec. 4.5s	20 **6**	7	White metal framework tower; 16.	
23176 *K 0870*	Karsik Reef, SW. end.	1° 00.1′ S 100° 22.5′ E	**Fl.G.** period 4s fl. 0.5s, ec. 3.5s	23 **7**	5	Green beacon; 13.	
23180 *K 0870.2*	-NE. end.	1° 00.0′ S 100° 22.6′ E	**L.Fl.W.** period 7s fl. 2s, ec. 5s	23 **7**	7	White beacon; 13.	
23184 *K 0861*	Pulau Pisang.	0° 59.7′ S 100° 20.3′ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	33 **10**	10	White metal framework tower; 33.	
23188 *K 0860*	Padang.	0° 58.0′ S 100° 21.3′ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	30 **9**	10	White metal framework tower; 13.	
23192 *K 0842*	**Pulau Bodjo.**	0° 38.2′ S 98° 31.0′ E	**Fl.W.** period 4s fl. 0.5s, ec. 3.5s	391 **119**	**21**	White metal tower, stone dwelling; 197.	Visible 202°-113°.
23196 *K 0850*	**Pulau Karsik.**	0° 35.8′ S 100° 04.5′ E	**Fl.(4)W.** period 15s fl. 1s, ec. 2s fl. 1s, ec. 2s fl. 1s, ec. 2s fl. 1s, ec. 5s	105 **32**	**16**	White metal framework tower; 102.	Visible 248°-163°.
23198 *K 0845*	Ingaris.	0° 28.9′ S 99° 51.8′ E	**Fl.(2)W.** period 8s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	39 **12**	13		
23200 *K 0846*	Pulau Ujung.	0° 25.1′ S 99° 54.0′ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	98 **30**	12	White metal framework tower; 98.	**Radar reflector.**
23201 *K 0844*	Moller Reef.	0° 04.1′ S 99° 24.4′ E	**Fl.(3)W.** period 15s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 10.5s	39 **12**	10	White beacon.	
23202 *F 1234*	**Pulau Marit.**	0° 01.0′ N 98° 15.9′ E	**Fl.W.** period 4s fl. 0.5s, ec. 3.5s	49 **15**	**15**	White metal framework tower; 49.	
23204 *K 0838*	**Pulau Sigata.**	0° 07.5′ S 98° 12.3′ E	**Oc.W.** period 3s lt. 2s, ec. 1s	382 **116**	**26**	White metal framework tower; 112.	Obscured beyond Pulau Simuk 094°-102°. Partially obscured beyond islets 183°-222° and beyond Tanjong Hatik 344°-348°.
23206 *K 0838.5*	Pulau Simuk.	0° 05.0′ S 97° 51.2′ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	46 **14**	12	White beacon.	**Radar reflector.**

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			INDONESIA (SUMATERA-WEST COAST)				
23208 *K 0839.4*	Pulutello.	0° 03.3′ S 98° 16.7′ E	**Fl.W.** period 4s fl. 0.5s, ec. 3.5s	23 **7**	6	White framework tower; 52.	
23209 *F 1235*	**Pulau Pini.**	0° 08.3′ N 98° 31.6′ E	**Fl.W.** period 8s fl. 1s, ec. 7s	138 **42**	**16**	White metal framework tower; 98.	
23209.2 *F 1235.5*	**-Tg. Simanusu.**	0° 10.2′ N 98° 47.9′ E	**Fl.W.** period 4s fl. 1s, ec. 3s	102 **31**	**18**	White beacon.	
23209.5 *K 0838.7*	Pulau Pono.	0° 06.2′ S 98° 18.1′ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	46 **14**	13	White beacon.	**Radar reflector.**
23210 *F 1237*	**Karang Ular.**	0° 05.1′ N 98° 57.2′ E	**Fl.W.** period 4s fl. 0.5s, ec. 3.5s	49 **15**	**15**	White metal framework structure; 49.	
23212 *F 1236*	**Pulau Pangkal.**	0° 08.5′ N 99° 17.6′ E	**L.Fl.W.** period 5s fl. 2s, ec. 3s	187 **57**	**19**	White metal framework tower; 26.	
23216 *F 1236.5*	Air bangis.	0° 12.2′ N 99° 22.8′ E	**Fl.W.** period 4s fl. 0.5s, ec. 3.5s	33 **10**	6	White metal framework tower.	
23220 *F 1238*	**Pulau Temang.**	0° 21.9′ N 99° 05.8′ E	**L.Fl.W.** period 9s fl. 3s, ec. 6s	213 **65**	**20**	White metal framework; 72.	Visible 337°-217°.
23224 *F 1241*	Natal.	0° 33.4′ N 99° 06.7′ E	**Fl.W.** period 3s	49 **15**	6	White beacon.	
23224.5 *F 1242*	Karang Bayang.	0° 34.4′ N 98° 59.3′ E	**Fl.W.** period 5s fl. 1s, ec. 4s	43 **13**	13	Red beacon, black stripes, round daymark.	
23225 *F 1242.5*	Sikarakara.	0° 36.7′ N 99° 03.6′ E	**Fl.W.** period 5s fl. 1s, ec. 4s	42 **13**	12	White beacon.	
23228 *F 1244*	**Pulau Labu, (Sidakah).**	0° 51.7′ N 98° 56.8′ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	213 **65**	**16**	White metal framework tower; 49.	Visible 298°-205°. **Radar reflector.**
23232 *F 1255*	**Teluk Dalam.**	0° 32.6′ N 97° 49.0′ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	551 **168**	**19**	White metal framework tower; 26.	
23236 *F 1255.2*	-Pier, head.	0° 33.9′ N 97° 48.6′ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	105 **32**	13	White metal framework tower; 98.	
23238 *F 1254.6*	Legundi.	0° 34.6′ N 97° 44.6′ E	**Fl.W.** period 6s fl. 1s, ec. 5s	42 **13**	12	White beacon.	
23239 *F 1254.5*	**T Soahebohu.**	0° 35.6′ N 97° 41.0′ E	**Fl.(4)W.** period 18s fl. 0.3s, ec. 3.6s fl. 0.3s, ec. 3.6s fl. 0.3s, ec. 3.6s fl. 0.3s, ec. 6s	114 **35**	**16**	White beacon.	
23240 *F 1254*	**Pulau Hinaka.**	0° 52.2′ N 97° 20.2′ E	**Fl.W.** period 5s fl. 1s, ec. 4s	178 **54**	**19**	White metal framework tower; 105.	Visible 126°-117°. Obscured by outlying islands within 9M.
23244 *F 1254.2*	-SE. side.	0° 52.0′ N 97° 20.2′ E	**L.Fl.W.** period 6s fl. 2s, ec. 4s	33 **10**	5	Mast; 20.	

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			INDONESIA (SUMATERA-WEST COAST)				
23244.2 *F 1254.4*	**Tg Sirombu.**	0° 56.5′ N 97° 24.4′ E	**Fl.(4)W.** period 18s fl. 0.3s, ec. 3.6s fl. 0.3s, ec. 3.6s fl. 0.3s, ec. 3.6s fl. 0.3s, ec. 6s	104 **32**	**16**	White beacon.	
23245.5 *F 1256*	Ug Sumabawa.	0° 49.0′ N 97° 54.3′ E	**Fl.(4)W.** period 17s fl. 0.3s, ec. 3.6s fl. 0.3s, ec. 3.6s fl. 0.3s, ec. 3.6s fl. 0.3s, ec. 5s	72 **22**	13	White metal framework tower; 66.	
23246 *F 1257*	**Punau Sumabawa.**	0° 54.5′ N 98° 01.2′ E	**Fl.W.** period 4s fl. 0.5s, ec. 3.5s	108 **33**	**16**	White metal framework tower; 98.	**Radar reflector.**
23247 *F 1262.4*	Karang Pandjang.	1° 03.3′ N 98° 19.0′ E	**Q.(6)+L.Fl.W.** period 15s	46 **14**	12	S. CARDINAL YB, beacon, topmark; 33.	
23247.5 *F 1253*	Sebua.	1° 10.2′ N 97° 17.9′ E	**Fl.W.** period 3s fl. 1s, ec. 2s	69 **21**	14	White beacon; 66.	
23248 *F 1248*	**Tandjung M'ba'a.**	1° 18.8′ N 97° 35.8′ E	**Fl.W.** period 5s fl. 1s, ec. 4s	247 **75**	**22**	White metal framework tower; 69.	Visible from 145°, through S., until obscured by Tanjong Lembrau.
23252 *F 1248.4*	Gunong Sitoli.	1° 18.0′ N 97° 36.0′ E	**F.R.**		2	Mast.	Occasional.
23256 *F 1248.2*	-Harbor.	1° 18.2′ N 97° 36.2′ E	**Fl.Y.** period 3s fl. 0.5s, ec. 2.5s	33 **10**	6	Yellow beacon.	
23258 *F 1259*	Pulau Sarangbuang.	1° 42.2′ N 97° 26.5′ E	**Fl.(2)W.** period 8s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	180 **55**	14	Tower.	
23259 *F 1265*	Pulau Mansalar.	1° 42.1′ N 98° 27.6′ E	**Fl.W.** period 5s fl. 1s, ec. 4s	114 **35**	14	Beacon.	
23260 *F 1250*	**Gosong Baohi.**	1° 26.2′ N 97° 10.4′ E	**Fl.W.** period 6s fl. 1s, ec. 5s	98 **30**	**15**	White beacon.	
23261 *F 1252*	Lahewa.	1° 24.5′ N 97° 10.1′ E	**Fl.W.** period 3s fl. 0.5s, ec. 2.5s	46 **14**	12	White beacon.	**Radar reflector.**
23262 *F 1251*	-Goso Uma Lahewah.	1° 28.4′ N 97° 12.4′ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	59 **18**	12	White metal framework structure; 49.	
23267 *F 1262.3*	**Bintanah.**	1° 28.6′ N 98° 10.7′ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	108 **33**	**15**	White metal framework structure; 98.	
23268 *F 1262*	South Pylades, SE. reef.	1° 40.8′ N 98° 00.7′ E	**Fl.W.** period 8s fl. 1s, ec. 7s	52 **16**	13	ISOLATED DANGER BRB, tower, topmark; 52.	Obscured by Palau Lakota.
23268.5 *F 1260*	Pulau Lakota.	1° 50.7′ N 98° 01.6′ E	**Fl.W.** period 6s fl. 0.6s, ec. 5.4s	42 **13**	12	White beacon.	
23269 *F 1262.5*	**Labu Labu Kecil**.	1° 34.7′ N 98° 36.5′ E	**Fl.(2)W.** period 7s fl. 1s, ec. 1s fl. 1s, ec. 4s	187 **57**	**15**	White metal framework structure; 98.	
23271 *F 1245*	**Pulau Ilir**.	1° 16.0′ N 98° 49.3′ E	**Fl.W.** period 9s	308 **94**	**24**	White metal framework structure.	

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			INDONESIA (SUMATERA-WEST COAST)				
23272 *F 1263.5*	Aik Habil.	1° 43.3′ N 98° 47.0′ E	**Fl.G.** period 5s fl. 0.5s, ec. 4.5s	33 **10**	5	Green beacon; 33.	
23276 *F 1263.3*	Pulau Poncan.	1° 43.1′ N 98° 45.8′ E	**Fl.G.** period 2s fl. 0.2s, ec. 1.8s	36 **11**	5	Green beacon; 36.	
23280 *F 1264.5*	Sarudut.	1° 43.4′ N 98° 46.9′ E	**Fl.R.** period 6s fl. 0.5s, ec. 5.5s	33 **10**	5	Red beacon; 16.	
23284 *F 1263*	**Ujung Karang.**	1° 42.9′ N 98° 43.4′ E	**Fl.(3)W.** period 17s fl. 0.5s, ec. 3s fl. 0.5s, ec. 3s fl. 0.5s, ec. 9.5s	134 **41**	**17**	White metal framework; 131.	
23285 *F 1263.2*	P. Pocan Kecil.	1° 43.7′ N 98° 45.3′ E	**Q.(3)W.** period 12s	39 **12**	13	E. CARDINAL BYB, beacon, topmark.	
23288 *F 1264*	Teluk Sibolga, pier.	1° 44.4′ N 98° 46.5′ E	**Fl.W.** period 5s fl. 1s, ec. 4s	43 **13**	12	White iron framework tower; 39.	F.R. shown from near customhouse in Barus when vessels are in roadstead.
23289 *F 1266.3*	Ug Silabi.	2° 01.7′ N 98° 15.9′ E	**L.Fl.W.** period 10s fl. 2s, ec. 8s	36 **11**	12	White beacon.	
23290 *F 1265.5*	Pulau Karang.	1° 58.4′ N 98° 20.9′ E	**Fl.W.** period 5s fl. 1.5s, ec. 3.5s	42 **13**	12	Beacon.	**Radar reflector.**
23291 *F 1267.5*	Karang Rumambi.	2° 13.5′ N 97° 45.9′ E	**Fl.(2)R.** period 10s fl. 0.5s, ec. 1s fl. 0.5s, ec. 8s	46 **14**	13	Red beacon.	
23292 *F 1267*	Singkel.	2° 16.7′ N 97° 48.5′ E	**Fl.W.** period 6s fl. 1s, ec. 5s	49 **15**	10	White metal framework tower; 98.	
23295 *F 1271.5*	**Pulau Bagu.**	2° 17.8′ N 97° 24.0′ E	**Fl.(4)W.** period 18s fl. 0.3s, ec. 3.6s fl. 0.3s, ec. 3.6s fl. 0.3s, ec. 3.6s fl. 0.3s, ec. 6s	148 **45**	**16**	White beacon.	
23296 *F 1271*	Pulau Baleh.	2° 18.0′ N 97° 24.5′ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	26 **8**	6	White metal framework structure; 23.	
23298 *F 1270.5*	Panjang.	2° 17.1′ N 97° 24.4′ E	**Fl.W.** period 3s fl. 0.3s, ec. 2.7s	102 **31**	7	White metal framework tower; 33.	
23300 *F 1270*	Pulau Panjang.	2° 17.0′ N 97° 24.1′ E	**Q.(3)W.** period 6s	33 **10**	12	White metal framework tower.	
23304 *F 1273*	**Sarang Uln.**	1° 58.9′ N 97° 23.0′ E	**Fl.W.** period 5s fl. 0.3s, ec. 4.7s	135 **41**	**17**	White metal framework structure; 131.	
23305 *F 1273.5*	**Pulau Babi.**	2° 06.0′ N 96° 36.8′ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	105 **32**	**17**	White beacon.	
23306 *F 1281*	**Pulau Tepak.**	2° 21.0′ N 96° 15.1′ E	**Fl.W.** period 9s fl. 0.9s, ec. 8.1s	328 **100**	**18**	White beacon.	
23307 *F 1280*	**Pulau Simeuloe.**	2° 32.2′ N 95° 55.5′ E	**Fl.(2)W.** period 12s fl. 0.5s, ec. 1s fl. 0.5s, ec. 10s	295 **90**	**18**	White beacon.	

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			INDONESIA (SUMATERA-WEST COAST)				
23308 *F 1274.5*	**Teluk Sinabang**, Ujong Babang.	2° 30.5′ N 96° 24.1′ E	**Fl.W.** period 3s	131 **40**	**20**	White metal framework tower; 82.	Visible 037°30′-306° except where obscured by Siumat Island.
23310 *F 1278*	**Tinggi.**	2° 50.7′ N 95° 57.8′ E	**Fl.W.** period 3s fl. 1s, ec. 2s	115 **35**	**16**	White metal framework structure; 98.	
23310.5 *F 1277*	Ujung Sirih.	2° 40.7′ N 96° 09.8′ E	**Fl.R.** period 7s fl. 1s, ec. 6s	49 **15**	12	Red metal framework structure; 33.	
23311 *F 1276*	**Pulau Siumat.**	2° 38.7′ N 96° 23.6′ E	**Fl.W.** period 6s fl. 0.5s, ec. 5.5s	138 **42**	**17**	White beacon.	
23312 *F 1275*	-Rangasa.	2° 31.9′ N 96° 24.1′ E	**Fl.G.** period 3s fl. 0.5s, ec. 2.5s	52 **16**	6	STARBOARD (A) G, beacon, topmark; 49.	**Radar reflector.**
23316 *F 1274*	--Panjang Island.	2° 29.2′ N 96° 23.1′ E	**Fl.G.** period 3s fl. 0.5s, ec. 2.5s	52 **16**	6	STARBOARD (A) G, beacon, topmark; 33.	
23317 *F 1278.5*	**-Ujung Sibigo.**	2° 50.9′ N 95° 54.7′ E	**Fl.G.** period 5s fl. 1s, ec. 4s	46 **14**	**15**	Green beacon.	
23318 *F 1279*	**Salaut Besar.**	2° 57.9′ N 95° 23.9′ E	**Fl.(3)W.** period 20s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 15.5s	144 **44**	**18**	White beacon.	
	TAPAKTUAN:						
23320 *F 1284*	-Ujung Kupiah.	3° 15.3′ N 97° 10.6′ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	184 **56**	8	White metal framework tower; 46.	Visible 229°-133°.
23322 *F 1291*	Teluk Susoh.	3° 43.0′ N 96° 48.6′ E	**Fl.W.** period 3s fl. 0.5s, ec. 2.5s	39 **12**	10	White metal framework tower; 23.	
23324 *F 1290*	Susoh.	3° 43.1′ N 96° 48.7′ E	**Fl.G.** period 5s fl. 0.5s, ec. 4.5s	33 **10**	12	Green beacon; 23.	
23326 *F 1289*	**Ujung Raya.**	3° 44.2′ N 96° 31.2′ E	**Fl.(4)W.** period 20s	138 **42**	**25**	White metal framework structure; 131.	
23328 *F 1292*	Ujung Kareueng, Teluk Muelaboh.	4° 07.5′ N 96° 07.6′ E	**L.Fl.W.** period 8s fl. 2s, ec. 6s	89 **27**	11	White iron framework tower; 82.	Visible 269°-124°.
23328.5 *F 1292.2*	Krueng Teunom.	4° 26.8′ N 95° 48.0′ E	**Fl.R.** period 7.5s fl. 0.8s, ec. 6.7s	112 **34**	14	Red beacon.	
23329 *F 1292.3*	**Rangas.**	4° 38.2′ N 95° 31.2′ E	**Fl.W.** period 5s fl. 0.9s, ec. 4.1s	164 **50**	**17**	White beacon.	
23329.5 *F 1292.35*	**Ujung Baro.**	4° 39.2′ N 95° 32.6′ E	**Fl.(2)W.** period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	197 **60**	**17**	PORT (A) R, beacon, topmark.	
23330 *F 1292.5*	**Palau Raya.**	4° 52.4′ N 95° 22.0′ E	**Q.(2)W.** period 5s	236 **72**	**18**	White beacon.	
23331 *F 1292.7*	**Ug Tangkura.**	5° 06.6′ N 95° 16.8′ E	**Q.(3)W.** period 5s	147 **45**	**16**	White beacon.	

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			INDONESIA (JAWA-ADJACENT ISLANDS)				
	SELAT SUNDA:						
23332 *K 1050.2*	**-Tanjung Layar.**	6° 44.9′ S 105° 12.8′ E	**Fl.(3)W.** period 15s	163 **50**	**18**	White metal framework tower; 98.	Visible 007°-139° and 199°-237°.
	-RACON		**X(– • • –)**				
23333 *K 1050.1*	**-Tanjung Parat.**	6° 31.7′ S 105° 16.0′ E	**Fl.W.** period 4s fl. 1.5s, ec. 2.5s	75 **23**	**16**	White beacon.	
23333.4 *K 1050.15*	-Tanjung Waton.	6° 36.8′ S 105° 06.0′ E	**Fl.W.** period 6s fl. 0.5s, ec. 5.5s	82 **25**	14	White beacon.	
23333.5 *K 1050.3*	-Tanjung Alangalang.	6° 38.8′ S 105° 22.2′ E	**Fl.Y.** period 3s fl. 0.5s, ec. 2.5s	39 **12**	8	SPECIAL Y, beacon, “X” topmark.	
23334 *K 1050.5*	-Tanjung Lesung.	6° 28.4′ S 105° 40.0′ E	**Fl.W.** period 4s fl. 0.5s, ec. 3.5s	75 **23**	14	White beacon.	
23335 *K 1050.05*	**-Panto Binuangen.**	6° 05.7′ S 105° 52.9′ E	**Fl.W.** period 7.5s fl. 0.5s, ec. 7s	105 **32**	**16**	White beacon.	
23336 *K 1050*	**-Tanjung Cikoneng (Tjikikoneng).**	6° 04.3′ S 105° 53.1′ E	**Fl.(2)W.** period 29s fl. 0.4s, ec. 6.6s fl. 0.4s, ec. 21.6s	197 **60**	**19**	White metal tower; 190.	Visible 010°-216°.
23338 *K 1051.7*	-Paku.	6° 02.5′ S 105° 55.5′ E	**Q.W.**		10	N. CARDINAL BY, pole, topmark.	
23340 *K 1051*	Pulau Ular.	6° 00.5′ S 105° 55.8′ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	210 **64**	8	White metal framework tower; 39.	**Radar reflector.**
23342 *K 1051.1*	**Palau Sangiang.**	5° 58.4′ S 105° 51.2′ E	**Fl.W.** period 7.5s fl. 0.5s, ec. 7s	105 **32**	**16**	White beacon.	
23344 *K 1052*	Pulau Tampurung.	5° 54.0′ S 105° 55.9′ E	**Fl.W.** period 3s fl. 1s, ec. 2s	253 **77**	13	White metal framework tower; 72.	Visible 045°06′-045°. Obscured beyond Pulau Sangiang Island 045°-066°.
	RACON		**R(• – •)**		**20**		(3 & 10cm).
23346 *K 1052.5*	Merak.	5° 57.6′ S 105° 59.8′ E	**Fl.W.** period 5s fl. 1s, ec. 4s	39 **12**	12	White metal mast; 33.	
23346.5 *K 1052.7*	-Inner.	5° 57.8′ S 105° 59.8′ E	**Fl.W.** period 3s fl. 0.5s, ec. 2.5s	39 **12**	12	White metal mast; 33.	
23346.7 *K 1052.6*	-Jetty.	5° 57.8′ S 105° 59.9′ E	**Fl.W.** period 4s fl. 1s, ec. 3s	39 **12**	12	White metal mast.	
23348 *K 1053*	Salat Merak.	5° 56.0′ S 105° 59.7′ E	**Q.(3)R.** period 8s	29 **9**	6	PORT (A) R, beacon, topmark; 20.	
23352 *K 1053.2*	Merak Harbor.	5° 56.0′ S 105° 59.5′ E	**Fl.R.** period 2s fl. 0.4s, ec. 1.6s	39 **12**	6	PORT (A) R, beacon, topmark; 26.	
	PELABUHAN SURALAYA:						
23355.1 *K 1053.33*	-SW. approach.	5° 53.0′ S 106° 01.6′ E	**Fl.W.R.G.** period 5s	29 **9**	10		G. 132°30′-208°30′, W.-210°30′, R.-222°30′.

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			INDONESIA (JAWA-ADJACENT ISLANDS)				
23355.3 *K 1053.35*	-NE. approach.	5° 52.9′ S 106° 01.7′ E	**Fl.W.R.G.** period 6s	29 **9**	10	White metal framework tower; 33.	R. 042°30′-059°30′, W.-061°30′, G.-132°30′.
23356 *K 1053.6*	-Tanjung Kamal.	5° 53.4′ S 106° 01.5′ E	**Fl.W.** period 1.5s fl. 0.5s, ec. 1s	23 **7**	7	Post; 23.	
23358 *K 1053.7*	Tanjung Piatu.	5° 52.9′ S 106° 04.2′ E	**Fl.W.** period 4s fl. 0.5s, ec. 3.5s	39 **12**	13	White beacon; 33.	
23358.5 *K 1053.72*	-Pulau Salira, N.	5° 52.7′ S 106° 03.8′ E	**Fl.Y.** period 4s fl. 0.5s, ec. 3.5s	18 **5**	4	Yellow beacon.	
23358.6 *K 1053.74*	--S.	5° 52.7′ S 106° 03.9′ E	**Fl.Y.** period 5s fl. 0.5s, ec. 4.5s	18 **5**	4	Yellow beacon.	
23359 *K 1053.9*	-Beacon.	5° 53.4′ S 106° 05.5′ E	**Fl.R.** period 5s fl. 1s, ec. 4s		10	PORT (A) R, pole, topmark.	
23359.5 *K 1053.91*	--E.	5° 53.6′ S 106° 05.1′ E	**Fl.G.** period 5s fl. 1s, ec. 4s		10	STARBOARD (A) G, pole, topmark.	
23360 *K 1054*	**Pulau Tunda.**	5° 48.9′ S 106° 17.0′ E	**L.Fl.W.** period 6s fl. 2s, ec. 4s	105 **32**	**15**	White metal framework tower; 98.	Visible 273°-100°.
23361 *K 1054.5*	Teluk Banten.	5° 56.3′ S 106° 06.8′ E	**Fl.W.** period 3s fl. 1s, ec. 2s	49 **15**	12	White beacon.	
23362 *K 1055*	Karang Antu.	6° 01.6′ S 106° 09.7′ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	43 **13**	12	White beacon; 33.	
23363 *K 1056*	Pulau Tidang Besar.	5° 47.5′ S 106° 28.2′ E	**Fl.(2)W.** period 10s fl. 0.5s, ec. 2.5s fl. 0.5s, ec. 6.5s	20 **6**	6	ISOLATED DANGER BRB, beacon, topmark.	
23363.5 *K 1056.5*	Pulau Karangberas.	5° 46.0′ S 106° 33.2′ E	**Q.(9)W.** period 15s	20 **6**	6	W. CARDINAL YBY, beacon, topmark.	
23363.6 *K 1056.7*	Layar Island.	5° 43.9′ S 106° 33.6′ E	**Q.(9)W.** period 15s	20 **6**	6	W. CARDINAL YBY, beacon, topmark.	**Radar reflector.**
23363.7 *K 1056.8*	Pandan Island.	5° 42.6′ S 106° 33.9′ E	**V.Q.(9)W.** period 10s	20 **6**	6	W. CARDINAL YBY, beacon, topmark.	**Radar reflector.**
23363.8 *K 1056.9*	Karang Gosong Congak.	5° 42.1′ S 106° 36.1′ E	**Q.(3)W.** period 10s	20 **6**	6	E. CARDINAL BYB, beacon, topmark.	**Radar reflector.**
23363.9 *K 1056.6*	Simedoun Island.	5° 43.3′ S 106° 37.1′ E	**Q.(3)W.** period 5s	20 **6**	6	E. CARDINAL BYB, beacon, topmark.	**Radar reflector.**
23364 *K 1058*	Pulau Payung Besar.	5° 49.4′ S 106° 33.3′ E	**Fl.(2)W.** period 10s	105 **32**	10	White metal framework tower; 98.	Visible 264°-113°.
23366 *K 1060.3*	Cituis Port.	6° 01.9′ S 106° 34.1′ E	**Fl.W.** period 3s fl. 0.3s, ec. 2.7s	46 **14**	12	White beacon; 33.	
23367 *K 1043.1*	Kepulauan Tidung, W.	5° 51.5′ S 106° 34.2′ E	**Q.(9)W.** period 15s	23 **7**	8	W. CARDINAL YBY, beacon, topmark.	
23368 *K 1060*	-E.	5° 51.1′ S 106° 38.8′ E	**Fl.(3)G.** period 15s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 9.5s	33 **10**	11	Green beacon; 33.	**Radar reflector.**

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			INDONESIA (JAWA-ADJACENT ISLANDS)				
23369 *K 1043.105*	Pulau Pari.	5° 51.7′ S 106° 37.2′ E	**Fl.W.** period 10s fl. 1s, ec. 9s	23 **7**	8	White pipe beacon.	
23370 *K 1061*	Gosong Dapur.	5° 55.4′ S 106° 43.6′ E	**Fl.(2)W.** period 8s fl. 0.5s, ec. 1s fl. 0.5s, ec. 6s	49 **15**	10	White metal beacon; 49.	
23372 *K 1060.5*	**Palau Peniki.**	5° 41.6′ S 106° 42.9′ E	**L.Fl.W.** period 5s fl. 2s, ec. 3s	105 **32**	**16**	White metal framework tower; 98.	**Radiobeacon.**
23376 *K 1042*	**Jaga Utara.**	5° 12.2′ S 106° 27.5′ E	**Fl.(2)W.** period 11s	161 **49**	**18**	White metal framework tower; 158.	
23380 *K 1043*	**Pulau Segama.**	5° 10.2′ S 106° 06.5′ E	**Fl.W.** period 5s	149 **45**	**22**	White metal framework structure; 131.	
23382 *K 1045*	Gosong Serdang.	5° 04.5′ S 106° 16.6′ E	**Fl.(2)W.** period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	39 **12**	13	ISOLATED DANGER BRB, beacon, topmark; 33.	
23383 *K 1045.5*	Tg. Bungin.	4° 33.2′ S 106° 03.7′ E	**Fl.W.** period 4s fl. 0.3s, ec. 3.7s	39 **12**	12	White fiberglass tower; 33.	**Radar reflector.**
23383.5 *K 1045.7*	Tanjung Menjangan.	3° 49.3′ S 106° 00.4′ E	**Fl.W.** period 3s fl. 0.5s, ec. 2.5s	39 **12**	12	White beacon.	
23384 *K 1044*	Chinta Oilfield Terminal.	5° 25.2′ S 106° 14.3′ E	**Mo.(U)W.** period 15s		5	Superbuoy.	
23388 *K 1040*	Beting Raja.	5° 12.5′ S 106° 44.3′ E	**Fl.(2)W.** period 10s fl. 0.5s, ec. 2.5s fl. 0.5s, ec. 6.5s	43 **13**	12	ISOLATED DANGER BRB, beacon, topmark; 39.	**Radar reflector.**
	RACON		**B(– • • •)**				
23392 *K 1038*	Beting Eka.	5° 17.7′ S 106° 54.5′ E	**Fl.(2)W.** period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 7.5s	49 **15**	10	ISOLATED DANGER BRB, beacon, topmark; 33.	**Radar reflector.**
	RACON		**B(– • • •)**				
23396 *K 1078*	Tanjung Krawang.	5° 54.3′ S 107° 00.6′ E	**Fl.(2)R.** period 8s fl. 0.5s, ec. 1s fl. 0.5s, ec. 6s	42 **13**	10	Red beacon; 46.	
23400 *K 1079*	-Northward, 9.3 miles.	5° 45.0′ S 106° 58.8′ E	**Fl.R.** period 4s fl. 0.5s, ec. 3.5s	29 **9**	8	Pile, red square topmark.	**Radar reflector.**
23404 *K 1062*	**Pulau Damar-besar.**	5° 57.4′ S 106° 50.5′ E	**Fl.(4)W.** period 20s fl. 0.3s, ec. 3.2s fl. 0.3s, ec. 3.2s fl. 0.3s, ec. 3.2s fl. 0.3s, ec. 9.2s	171 **52**	**19**	White metal tower; 171.	Obscured 292°-296°.
	RACON		**D(– • •)**		**20**		(3 & 10cm).
23405 *K 1063*	-Karang Ayer Sedang.	5° 59.2′ S 106° 46.5′ E	**Fl.G.** period 3s fl. 0.5s, ec. 2.5s	39 **12**	12	STARBOARD (A) G, beacon, topmark; 33.	
23406 *K 1064*	-Pulau Nirwana.	6° 01.8′ S 106° 51.1′ E	**Fl.G.** period 5s fl. 0.5s, ec. 4.5s	43 **13**	12	Green beacon, triangular daymark point up; 33.	

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23407 *K 1065*	Karang Jalan.	6° 02.2′ S 106° 46.5′ E	**Fl.(2)W.** period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 7.5s	36 **11**	10	ISOLATED DANGER BRB, beacon, topmark.	
23407.5 *K 1066*	-Karang Pasir.	6° 03.8′ S 106° 49.3′ E	**Fl.W.** period 4s fl. 0.5s, ec. 3.5s	39 **12**	12	White fiberglass beacon; 33.	
23407.7 *K 1066.2*	Pulau Puteri.	6° 04.1′ S 106° 51.4′ E	**Fl.R.** period 2s fl. 0.5s, ec. 1.5s	43 **13**	12	PORT (A) R, beacon, topmark.	
23407.8 *K 1066.4*	Karang Lamteri.	6° 04.5′ S 106° 49.9′ E	**Fl.G.** period 2s fl. 0.5s, ec. 1.5s	43 **13**	12	Green beacon.	
23408 *K 1069*	Sundra Kelapa, E. side.	6° 05.5′ S 106° 48.2′ E	**Fl.(2)R.** period 6s fl. 0.3s, ec. 1s fl. 0.3s, ec. 4.4s	26 **8**	6	Red beacon.	
23412 *K 1069.4*	-W. side.	6° 05.5′ S 106° 48.1′ E	**Fl.(2)G.** period 6s fl. 0.3s, ec. 1s fl. 0.3s, ec. 4.4s	26 **8**	6	Green beacon.	
23416 *K 1068.5*	Jakarta, W. mole.	6° 06.3′ S 106° 48.3′ E	**Fl.R.** period 3s fl. 1s, ec. 2s	56 **17**	5	White stone tower; 52.	
23416.1 *K 1070*	Muara Karang.	6° 06.5′ S 106° 47.1′ E	**Fl.W.** period 3s fl. 0.5s, ec. 2.5s	56 **17**	14	White beacon.	
23416.2 *K 1070.3*	-Entrance, W.	6° 05.9′ S 106° 47.2′ E	**Fl.G.** period 3s fl. 0.5s, ec. 2.5s	39 **12**	10	STARBOARD (A) G, beacon, topmark.	
23416.3 *K 1070.4*	--E.	6° 05.9′ S 106° 47.2′ E	**Fl.R.** period 2s fl. 0.5s, ec. 1.5s	39 **12**	10	PORT (A) R, beacon, topmark.	
23416.4 *K 1070.1*	-Inner, W.	6° 06.2′ S 106° 47.1′ E	**Fl.G.** period 5s fl. 0.5s, ec. 4.5s	33 **10**	8	STARBOARD (A) G, beacon, topmark.	
23416.5 *K 1070.2*	--E.	6° 06.2′ S 106° 47.1′ E	**Fl.R.** period 4s fl. 0.5s, ec. 3.5s	33 **10**	8	PORT (A) R, beacon, topmark.	
23417 *K 1072.7*	-Boat entrance, N. side.	6° 06.9′ S 106° 48.5′ E	**Fl.G.** period 5s fl. 0.5s, ec. 4.5s	33 **10**	9	Green beacon.	
23417.1 *K 1072.8*	--S. side.	6° 06.9′ S 106° 48.6′ E	**Fl.R.** period 6s fl. 0.6s, ec. 5.4s	39 **12**	10	PORT (A) R, beacon, topmark.	
23418 *K 1072.85*	Marina Ancol, W.	6° 07.0′ S 106° 49.7′ E	**Fl.R.** period 4s fl. 1s, ec. 3s	23 **7**	6	PORT (A) R, beacon, topmark.	
23418.1 *K 1072.86*	-E.	6° 07.0′ S 106° 49.7′ E	**Fl.G.** period 5s fl. 1s, ec. 4s	23 **7**	6	STARBOARD (A) G, beacon, topmark.	
23420 *K 1068*	Jakarta Harbor.	6° 07.3′ S 106° 48.6′ E	**Fl.(3)W.** period 12.5s	69 **21**	11	Beacon; 62.	
23422 *K 1072.9*	Pipeline.	6° 06.1′ S 106° 51.4′ E	**Fl.Y.** period 3s fl. 1s, ec. 2s	23 **7**	11	SPECIAL Y, beacon, “X” topmark.	**Radar reflector.**

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	TANJUNGPRIOK:						
23423.2 *K 1073.2*	--Entrance, W.	6° 06.4′ S 106° 51.8′ E	**Fl.G.** period 4s fl. 1s, ec. 3s	20 **6**	5	STARBOARD (A) G, beacon, topmark.	
23423.4 *K 1073.21*	---E.	6° 06.4′ S 106° 51.8′ E	**Fl.R.** period 4s fl. 1s, ec. 3s	20 **6**	5	PORT (A) R, beacon, topmark.	
23428 *K 1073.5*	-Inner Harbor.	6° 05.8′ S 106° 52.9′ E	**Fl.W.** period 10s fl. 1s, ec. 9s	151 **46**	**18**	White metal framework tower; 131.	Visible 090°-210°.
	RACON		**W(• – –)**				
23436 *K 1076*	-E. mole, head.	6° 04.8′ S 106° 53.0′ E	**Fl.R.** period 4s fl. 0.5s, ec. 3.5s	72 **22**	12	PORT (A) R, tower, topmark; 39.	
23437 *F 1076.5*	-Channel.	6° 05.7′ S 106° 52.7′ E	**Fl.R.** period 5s fl. 0.5s, ec. 4.5s	26 **8**	5	Red beacon.	
23460 *K 1084*	**Pulau Rakit.**	5° 56.2′ S 108° 22.8′ E	**Fl.W.** period 15s fl. 0.5s, ec. 14.5s	178 **54**	**20**	White metal framework tower; 164.	
23464	*Permanent Export SBM.*	6° 16.0′ S 108° 28.0′ E	**Fl.W.** period 8s fl. 0.5s, ec. 7.5s			Mooring buoy.	**Radar reflector.**
			Fl.G. period 3s fl. 0.5s, ec. 2.5s				
23468 *K 1086*	Tanjung Idramuyu Balongan.	6° 20.8′ S 108° 22.7′ E	**Fl.(2)W.** period 10s fl. 0.5s, ec. 3s fl. 0.5s, ec. 6s			White beacon.	
	CIREBON:						
23472 *K 1090*	-E. of Tanah Reef.	6° 31.7′ S 108° 41.2′ E	**Fl.(2)W.** period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	43 **13**	10	White beacon.	
23474 *K 1091.1*	-E. of Kali Kasunean.	6° 43.6′ S 108° 35.4′ E	**Fl.(2)R.** period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	20 **6**	4	PORT (A) R, beacon, topmark.	
23474.1 *K 1091.11*	--SW.	6° 43.6′ S 108° 35.3′ E	**Fl.(2)G.** period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	20 **6**	4	STARBOARD (A) G, beacon, topmark.	
23475 *K 1091.12*	-S. of Kali Kasunean.	6° 44.0′ S 108° 34.9′ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	39 **12**	6	White beacon.	
23476 *K 1092*	**-Cirebon.**	6° 42.9′ S 108° 34.3′ E	**Fl.(3)W.** period 20s fl. 0.5s, ec. 3.5s fl. 0.5s, ec. 3.5s fl. 0.5s, ec. 11.5s	101 **31**	**16**	White metal framework tower; 98.	
23480 *K 1092.5*	-Cirebon Range, front.	6° 42.3′ S 108° 34.4′ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	39 **12**	10	White beacon, white triangular daymark point up; 39.	
23484 *K 1092.51*	--Rear, 600 meters 258° from front.	6° 42.4′ S 108° 34.1′ E	**Q.(9)W.** period 15s	59 **18**	13	White beacon, white triangular daymark point down; 52.	

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23488 *K 1093*	-E. mole, head.	6° 42.3′ S 108° 34.7′ E	**Fl.R.** period 5s fl. 0.5s, ec. 4.5s	30 **9**	10	PORT (A) R, beacon, topmark; 23.	
23492 *K 1095*	-W. mole, head.	6° 42.3′ S 108° 34.7′ E	**Fl.G.** period 5s fl. 0.5s, ec. 4.5s	29 **9**	9	STARBOARD (A) G, beacon, topmark; 23.	
23500 *K 1099*	-Tg. Sanggarag.	6° 45.2′ S 108° 49.2′ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	36 **11**	6	White beacon; 33.	
23502 *K 1101*	Ujung Brebes.	6° 46.0′ S 109° 00.7′ E	**Fl.W.** period 4s fl. 0.5s, ec. 3.5s	72 **22**	12	White metal framework structure; 66.	
23504 *K 1105*	**Rede Tegal.**	6° 50.9′ S 109° 08.4′ E	**Iso.W.** period 10s	105 **32**	**15**	White metal framework tower; 98.	
23508 *K 1106*	-E. side of harbor.	6° 51.1′ S 109° 08.3′ E	**Fl.W.** period 3s fl. 1s, ec. 2s	62 **19**	6	White framework tower; 43.	
23512 *K 1108*	-W. mole, head.	6° 50.7′ S 109° 08.2′ E	**Fl.G.** period 5s fl. 1.5s, ec. 3.5s	43 **13**	6	Green framework tower, triangular daymark point up; 39.	
23516 *K 1112*	-E. mole, head.	6° 50.7′ S 109° 08.2′ E	**Fl.R.** period 5s fl. 0.5s, ec. 4.5s	39 **12**	6	PORT (A) R, beacon, topmark; 39.	
23517 *K 1110*	--E. mole.	6° 50.9′ S 109° 08.2′ E	**Fl.R.** period 7.5s fl. 1.5s, ec. 6s	36 **11**	6	Red metal framework tower, square daymark; 30.	
23520 *K 1102*	Karang Jeruk.	6° 48.6′ S 109° 11.8′ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	52 **16**	12	White metal framework tower; 46.	
	PEKALONGAN:						
23524 *K 1124*	-W. mole, head.	6° 51.4′ S 109° 41.5′ E	**L.Fl.G.** period 6s fl. 2s, ec. 4s	16 **5**	3	Metal framework structure; 16.	
23528 *K 1126*	-E. mole, head.	6° 51.3′ S 109° 41.6′ E	**Fl.R.** period 6s	16 **5**	3	Metal mast; 16.	
23532 *K 1122*	-Pekalongan.	6° 51.5′ S 109° 41.5′ E	**Fl.W.** period 5s fl. 1.5s, ec. 3.5s	46 **14**	10	White metal framework tower; 46.	
23539 *K 1128*	**Tanjung Celong.**	6° 54.3′ S 110° 02.6′ E	**Fl.W.** period 4s fl. 0.5s, ec. 3.5s	99 **30**	**20**	White beacon.	
23542 *K 1130*	Kendai.	6° 55.8′ S 110° 18.5′ E	**Fl.W.** period 2s fl. 0.5s, ec. 1.5s	52 **16**	7	White beacon.	
	SEMARANG:						
23544 *K 1131*	*-SBM.*	6° 53.3′ S 110° 25.7′ E	**Iso.R.** period 10s			Superbuoy.	
23552 *K 1133*	-Range, front.	6° 57.0′ S 110° 25.3′ E	**Fl.W.** period 2s fl. 0.5s, ec. 1.5s	89 **27**	12	White beacon, white triangular daymark point up; 82.	
23556 *K 1133.1*	--Rear, 600 meters 176°30′ from front.	6° 57.3′ S 110° 25.3′ E	**Fl.W.** period 3s fl. 0.5s, ec. 2.5s	105 **32**	12	White beacon, white triangular daymark point down; 98.	

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23557 *K 1133.3*	-E. breakwater, head.	6° 55.3′ S 110° 25.4′ E	**L.Fl.R.** period 10s fl. 3s, ec. 7s	46 **14**	10	PORT (A) R, tower, topmark; 33.	
23558 *K 1134*	-W. outer breakwater, head.	6° 55.1′ S 110° 25.1′ E	**L.Fl.G.** period 10s fl. 3s, ec. 7s	46 **14**	10	STARBOARD (A) G, beacon, topmark.	Light shown from S. end.
23559 *K 1135*	-W. inner breakwater, head.	6° 56.1′ S 110° 25.1′ E	**Fl.G.** period 5s fl. 0.5s, ec. 4.5s	36 **11**	4	Green metal framework tower; 26.	
23559.1 *K 1136*	--Middle.	6° 56.5′ S 110° 25.1′ E	**Fl.W.** period 3s fl. 0.5s, ec. 2.5s	13 **4**	4	White post; 10.	
23560 *K 1132*	**Tanjung Emmas.**	6° 57.1′ S 110° 25.1′ E	**Fl.(4)W.** period 20s fl. 0.3s, ec. 3.2s fl. 0.3s, ec. 3.2s fl. 0.3s, ec. 3.2s fl. 0.3s, ec. 9.2s	107 **33**	**16**	White metal tower; 98.	
	KEPULAUAN KARIMUNJAWA:						
23568 *K 1140*	**-P Njamuk.**	5° 48.9′ S 110° 11.0′ E	**Fl.(3)W.** period 15s fl. 1s, ec. 2s fl. 1s, ec. 2s fl. 1s, ec. 8s	99 **30**	**16**	White metal framework tower; 98.	
23568.5 *K 1140.2*	-Karang Kapal.	5° 54.2′ S 110° 13.2′ E	**Fl.W.** period 6s fl. 0.5s, ec. 5.5s	43 **13**	10	White beacon.	
23569 *K 1141*	-Pulau Karimunjawa, Tg. Pudak.	5° 53.4′ S 110° 26.8′ E	**Fl.W.** period 3s fl. 0.5s, ec. 2.5s	82 **25**	12	White beacon; 49.	
23570 *K 1140.5*	-**Pulau Genting.**	5° 50.6′ S 110° 36.3′ E	**Fl.W.** period 4s fl. 0.5s, ec. 3.5s	164 **50**	**20**	White beacon.	
23571 *K 1140.4*	-Pulau Sintok.	5° 46.8′ S 110° 30.6′ E	**Fl.Y.** period 3s fl. 0.5s, ec. 2.5s	39 **12**	6	SPECIAL Y, beacon, “X” topmark.	
23571.5 *K 1140.3*	-Pulau Bengkoang.	5° 43.9′ S 110° 24.5′ E	**Fl.Y.** period 4s fl. 0.5s, ec. 3.5s	39 **12**	6	SPECIAL Y, beacon, “X” topmark.	
23572 *K 1144*	**Pulau Mondoliko.**	6° 23.1′ S 110° 55.3′ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	283 **86**	**23**	White metal framework tower; 52.	Visible 069°-287°.
	RACON		**K(– • –)**		**17**		
23572.5 *K 1144.1*	**Tg Bugel.**	6° 27.5′ S 111° 02.9′ E	**Fl.W.** period 4s fl. 0.5s, ec. 3.5s	102 **31**	**20**	White beacon.	
23572.8 *K 1144.2*	Juana Harbor.	6° 39.0′ S 111° 10.2′ E	**Fl.W.** period 6s fl. 1.2s, ec. 4.8s	46 **14**	10	White beacon.	
23573 *K 1144.3*	Juana Channel, E. side.	6° 39.1′ S 111° 10.1′ E	**Fl.R.** period 3s fl. 1s, ec. 2s	16 **5**	4	PORT (A) R, beacon, topmark.	Channel marked by lighted beacons.
23573.1 *K 1144.35*	-W. side.	6° 39.1′ S 111° 09.9′ E	**Fl.G.** period 3s fl. 1s, ec. 2s	16 **5**	4	STARBOARD (A) G, beacon, topmark.	
23573.3 *K 1144.48*	Juana Outer Harbor.	6° 40.0′ S 111° 11.3′ E	**Fl.W.** period 2s fl. 0.5s, ec. 1.5s	34 **10**	12	White beacon; 23.	

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23573.5 *K 1144.6*	Penowo Reef.	6° 38.4′ S 111° 15.9′ E	**Fl.W.** period 4s fl. 0.6s, ec. 3.4s	43 **13**	8	White beacon.	
23573.53 *K 1144.65*	Gondoh.	6° 39.0′ S 111° 17.5′ E	**Fl.W.** period 4s fl. 0.5s, ec. 3.5s	34 **10**	12	White beacon; 23.	
23573.57 *K 1144.68*	Karang Seliro.	6° 41.2′ S 111° 19.3′ E	**Fl.W.** period 4s fl. 1s, ec. 3s	28 **8**	12	White beacon; 23.	
23573.6 *K 1144.8*	Pulau Gurian.	6° 41.4′ S 111° 21.6′ E	**Fl.W.** period 2.5s fl. 0.5s, ec. 2s	43 **13**	10	White metal framework tower; 33.	
23574 *K 1145*	**Tg. Awarawar.**	6° 46.2′ S 111° 57.2′ E	**Fl.W.** period 10s fl. 0.4s, ec. 9.6s	230 **70**	**22**	White metal framework tower; 131.	Tuban Oil Terminal moored storage tanker 12.3 miles ENE.
23580 *K 1139*	Djapara.	6° 35.1′ S 110° 39.3′ E	**Fl.W.** period 3s fl. 1s, ec. 2s	56 **17**	8	White concrete column; 49.	
23584 *K 1138*	**Pulau Panjang.**	6° 34.5′ S 110° 37.5′ E	**Fl.(3)W.** period 20s fl. 0.3s, ec. 3.7s fl. 0.3s, ec. 3.7s fl. 0.3s, ec. 11.7s	72 **22**	**18**	White metal framework tower; 49.	
23586 *K 1145.5*	**Tambakbojo.**	6° 47.4′ S 111° 53.9′ E	**Fl.W.** period 3s	98 **30**	**15**		
	PULAU BAWEAN:						
23588 *K 1150*	-Sangkapoera.	5° 51.1′ S 112° 39.4′ E	**L.Fl.W.** period 5s fl. 2s, ec. 3s	69 **21**	10	White metal framework tower; 66.	
23589 *K 1151*	-Range, front.	5° 50.7′ S 112° 38.5′ E	**Fl.W.** period 1.5s fl. 0.5s, ec. 1s	16 **5**	6	Beacon, white triangular daymark point up.	
23589.4 *K 1151.1*	--Rear, 0.65 mile 359°30′ from front.	5° 50.1′ S 112° 38.5′ E	**Fl.W.** period 3s fl. 1s, ec. 2s	230 **70**	12	Beacon, white triangular daymark point down.	
23590 *K 1149*	--On rock.	5° 51.5′ S 112° 38.7′ E	**Fl.(2)G.** period 8s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	43 **13**	12	Green beacon.	
23591 *K 1153*	**-Tanjung Mantegi.**	5° 43.0′ S 112° 41.3′ E	**Fl.W.** period 7s fl. 0.5s, ec. 6.5s	272 **83**	**24**	White beacon.	
23591.5 *K 1152*	-Karang Gosong.	5° 46.1′ S 112° 50.5′ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	46 **14**	11	White beacon.	
23592 *K 1424*	**Masalembo-Besar.**	5° 33.6′ S 114° 27.1′ E	**Fl.(3)W.** period 21.5s fl. 0.8s, ec. 2.7s fl. 0.8s, ec. 2.7s fl. 0.8s, ec. 13.7s	787 **240**	**35**	White metal framework tower; 131.	
	RACON		**M(– –)**		**20**		(3 & 10cm).
23593 *K 1424.5*	-SW. side of island.	5° 34.8′ S 114° 24.8′ E	**Fl.R.** period 6s fl. 0.5s, ec. 5.5s	16 **5**	6	PORT (A) R, beacon, topmark.	
23604 *K 1426*	Keramaian.	5° 02.0′ S 114° 37.0′ E	**Fl.W.** period 5s	52 **16**	8	White metal framework tower; 49.	**Radar reflector.**

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			INDONESIA (JAWA-ADJACENT ISLANDS)				
	SURABAYA (WESTERN CHANNEL):						
23608 *K 1157*	**-Ujung Pangkah.**	6° 50.4′ S 112° 32.9′ E	**Fl.W.** period 6s fl. 0.4s, ec. 5.6s	108 **33**	**16**	White beacon.	
23612 *K 1157.5*	**-Karang Djamuang.**	6° 55.6′ S 112° 43.6′ E	**Fl.W.** period 4s fl. 0.5s, ec. 3.5s	135 **41**	**19**	White metal framework tower; 131.	**Radiobeacon.**
	-RACON		**K(– • –)**		12		(3 & 10cm).
23616 *K 1158*	-Mapia entrance Range, front.	6° 59.3′ S 112° 42.0′ E	**Fl.W.** period 3s fl. 0.5s, ec. 2.5s	36 **11**	8	White square concrete tower, red bands, platform; 46.	
23620 *K 1158.1*	--Tandjung Piring, middle, 5.1 kilometers 200° from front.	7° 02.0′ S 112° 41.0′ E	**Fl.W.** period 3s fl. 0.3s, ec. 2.7s	46 **14**	7	White metal framework tower; 46.	Visible 194°-204°.
23624 *K 1158.2*	**---Sembilangan,** Slimpil Point, rear, 200° from front.	7° 03.8′ S 112° 40.4′ E	**Fl.(2)W.** period 10s fl. 1s, ec. 1s fl. 1s, ec. 7s	174 **53**	**19**	White round concrete tower, black and white striped top; 164.	
	---RACON		**M(– –)**				
23625 *K 1158.55*	-Gresik, pier.	7° 06.6′ S 112° 39.2′ E	**Fl.W.** period 5s fl. 1s, ec. 4s	52 **16**	8	White beacon.	
23625.2 *K 1158.59*	--N.	7° 06.7′ S 112° 39.2′ E	**Q.(4)Y.** period 15s	20 **6**	7	SPECIAL Y, beacon, “X” topmark.	
23625.4 *K 1158.51*	--S. of entrance to Kali Miring.	7° 06.6′ S 112° 39.2′ E	**Q.(4)Y.** period 15s	20 **6**	7	SPECIAL Y, beacon, “X” topmark.	
23625.8 *K 1158.85*	-Tepen, NE.	7° 08.0′ S 112° 39.3′ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	49 **15**	6	White beacon.	**Radar reflector.**
23626 *K 1159*	-Pojok.	7° 08.4′ S 112° 39.3′ E	**Fl.Y.** period 5s fl. 1s, ec. 4s	23 **7**	5	SPECIAL Y, beacon, “X” topmark.	Marks pipeline with Special beacons 250 meters and 760 meters SSE. **Radar reflector.**
23627 *K 1160*	-Tanjungan.	7° 09.3′ S 112° 41.1′ E	**Fl.Y.** period 4s fl. 1s, ec. 3s	43 **13**	5	SPECIAL Y, beacon, “X” topmark.	**Radar reflector.**
	SURABAYA:						
23632 *K 1174*	-Karang Queen Olga Reef.	7° 10.9′ S 112° 43.9′ E	**Fl.R.** period 10s	23 **7**	7	PORT (A) R, beacon, topmark; 26.	
23648 *K 1183.1*	-Naval Harbor, Madura Wharf.	7° 11.8′ S 112° 44.4′ E	**Fl.R.** period 4s fl. 0.5s, ec. 3.5s	29 **9**	4	Red beacon; 20.	
23656 *K 1178*	-W. side of entrance to new harbor.	7° 12.0′ S 112° 43.2′ E	**F.G.**	42 **13**	7	Metal column; 33.	
23668 *K 1170*	-Kessek.	7° 09.7′ S 112° 46.0′ E	**Fl.(3)W.** period 12s fl. 0.4s, ec. 1.6s fl. 0.4s, ec. 1.6s fl. 0.4s, ec. 7.6s	75 **23**	10	White beacon; 66.	
23670 *K 1197*	Karang Manila.	7° 21.5′ S 113° 10.2′ E	**Fl.(2)W.** period 12s fl. 0.5s, ec. 1s fl. 0.5s, ec. 10s	39 **12**	12	ISOLATED DANGER BRB, beacon, topmark.	

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23672 *K 1198*	Sirumpa Rock.	7° 24.2′ S 113° 04.3′ E	**Fl.(2)W.** period 10s fl. 0.5s, ec. 2.5s fl. 0.5s, ec. 6.5s	52 **16**	9	ISOLATED DANGER BRB, beacon, topmark.	**Radar reflector.**
	SELAT MADURA:						
23676 *K 1200*	-Karang Koko (Zwaantjes Reef).	7° 28.2′ S 113° 07.1′ E	**Fl.(3)W.** period 13s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7.5s	59 **18**	12	ISOLATED DANGER BRB, beacon, topmark; 52.	
23684 *K 1204*	-Pasuruan.	7° 37.8′ S 112° 55.1′ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	69 **21**	14	White mast; 59.	
23688 *K 1210*	-Probolinggo.	7° 44.3′ S 113° 13.4′ E	**Fl.W.** period 7s fl. 1s, ec. 6s	75 **23**	14	White beacon; 66.	
23689 *K 1211*	--Off shore.	7° 43.0′ S 113° 12.9′ E	**Fl.W.** period 3s fl. 0.5s, ec. 2.5s	75 **23**	9	White beacon; 66.	
23692 *K 1212*	--W. mole, head.	7° 43.0′ S 113° 13.1′ E	**Fl.G.** period 5s fl. 0.5s, ec. 4.5s	46 **14**	12	Green metal framework tower; 46.	During some months of the year in Probolinggo and Besuki, many sugar factories use electric lights which are visible from great distances.
23696 *K 1212.2*	--E. mole, head.	7° 43.4′ S 113° 13.1′ E	**Fl.R.** period 6s fl. 0.6s, ec. 5.4s	46 **14**	13	Red metal framework tower; 46.	
23700 *K 1213*	--Kar Keranji.	7° 42.4′ S 113° 34.7′ E	**Fl.W.** period 5s fl. 1s, ec. 4s	49 **15**	10	White beacon.	
23704 *K 1214*	-Besuki, near river entrance.	7° 43.5′ S 113° 41.2′ E	**Fl.W.** period 4s fl. 1.5s, ec. 2.5s	46 **14**	5	White metal framework tower; 46.	
23708 *K 1220*	-Panarukan.	7° 41.7′ S 113° 56.1′ E	**Fl.W.** period 3s fl. 1s, ec. 2s	49 **15**	6	Black metal framework tower, white bands; 46.	Visible 104°-228°.
23709 *K 1218*	--Panarukan, N. of Klatakan.	7° 42.1′ S 113° 55.2′ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	33 **10**	7	White metal framework tower; 26.	
23710 *K 1222*	**Tg. Paciman.**	7° 36.4′ S 114° 02.3′ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	141 **43**	**17**	White metal framework tower; 131.	
23712 *K 1223*	Karang Mas.	7° 40.6′ S 114° 26.3′ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	72 **22**	11	ISOLATED DANGER BRB, beacon, topmark; 52.	
23714 *K 1225*	**-Camplong.**	7° 13.0′ S 113° 19.2′ E	**Fl.(4)W.** period 20s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 15s	69 **21**	**16**	White beacon; 69.	
23715 *K 1225.5*	--E.	7° 13.1′ S 113° 21.8′ E	**Fl.W.** period 5s fl. 1s, ec. 4s	79 **24**	12	White beacon.	
23716 *K 1226*	-Gili Dua.	7° 14.8′ S 113° 40.1′ E	**Fl.W.** period 3s fl. 0.3s, ec. 2.7s	65 **20**	13	White beacon; 66.	**Radar reflector.**

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23718 *K 1228*	**Giliraja.**	7° 14.2′ S 113° 47.7′ E	**Fl.W.** period 6s fl. 0.4s, ec. 5.6s	138 **42**	**18**	White beacon.	
23720 *K 1230*	-Bili Genteng.	7° 11.8′ S 113° 52.7′ E	**Fl.(3)W.** period 15s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 9.5s	49 **15**	12	White metal framework tower; 36.	Visible 318°-244°. Obscured 066°-084° behind Gili Genteng and Gili Raja.
23724 *K 1232*	-Madura Tanjung.	7° 07.9′ S 113° 53.6′ E	**Fl.W.** period 3s fl. 0.3s, ec. 2.7s	59 **18**	12	White metal framework tower; 43.	Visible 194°-104°. Obscured by the point N. of Tandjung of the bearing 293° and by various islands.
23728 *K 1236*	-Kalianget Range, front.	7° 03.2′ S 113° 56.1′ E	**F.G.**	33 **10**	4	White metal framework tower; 26.	
23732 *K 1236.1*	--Rear, 146 meters 029° from front.	7° 03.2′ S 113° 56.2′ E	**F.R.**	59 **18**	4	White metal framework tower; 43.	Obscured by trees on bearing 355°.
23736 *K 1238*	-Berths Range, front.	7° 03.4′ S 113° 56.6′ E	**Fl.W.** period 6s fl. 0.5s, ec. 5.5s	33 **10**	7	White metal framework structure; 26.	
23740 *K 1238.1*	--Rear, 100 meters 250° from front.	7° 03.4′ S 113° 56.7′ E	**Fl.W.** period 3s fl. 0.3s, ec. 2.7s	39 **12**	7	White metal framework structure; 33.	
23742 *K 1238.5*	Karang Tembaga.	7° 06.6′ S 114° 09.0′ E	**Q.(3)W.** period 10s	46 **14**	12	E. CARDINAL BYB, beacon, topmark.	
23744 *K 1240*	**Pulau Sapudi.**	7° 05.6′ S 114° 16.3′ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	194 **59**	**20**	White octagonal framework tower; 194.	Visible 322°-230°. Obscured by Pulau Puteran 084°-095°, and by Gili Iyang 131°-145°.
23746 *K 1241*	-Gayam.	7° 09.9′ S 114° 19.6′ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	49 **15**	12	White pipe beacon; 39.	
23748 *K 1242*	--Pier, head.	7° 10.1′ S 114° 19.5′ E	**Fl.R.** period 7s fl. 1s, ec. 6s	49 **15**	6	Wooden mast; 46.	
23750 *K 1243*	**Batu Putih.**	6° 52.2′ S 113° 56.4′ E	**Fl.(2)W.** period 15s fl. 0.4s, ec. 3.6s fl. 0.4s, ec. 10.6s	174 **53**	**19**	White metal framework tower; 131.	Visible 098°-284°.
23751 *K 1243.5*	Sapulu.	6° 53.4′ S 113° 06.8′ E	**Fl.Y.** period 2s fl. 0.5s, ec. 1.5s	33 **10**	14	SPECIAL Y, beacon, "X" topmark.	**Radar reflector.**
23752 *K 1244*	**Punta Kamudi.**	7° 06.4′ S 114° 47.7′ E	**Fl.W.** period 5s fl. 0.8s, ec. 4.2s	59 **18**	**16**	White beacon; 49.	
23754 *K 1244.5*	Karang Takat.	7° 01.7′ S 114° 58.4′ E	**Fl.W.** period 2s fl. 0.5s, ec. 1.5s	46 **14**	13	White beacon.	
23756 *K 1245*	Ketapang Bay, Patokanan.	6° 51.3′ S 115° 14.0′ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	52 **16**	12	White beacon; 33.	
23760 *K 1246*	Kalisangka.	6° 51.0′ S 115° 15.0′ E	**F.R.**	22 **7**		Wooden mast; 16.	
23762 *K 1244.9*	**P. Mamburit.**	6° 50.4′ S 115° 13.0′ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	148 **45**	**21**	White beacon.	

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23764 *K 1247*	**Pulau Sakala.**	6° 56.3′ S 116° 15.9′ E	**Fl.(3)W.** period 20s fl. 0.5s, ec. 3.5s fl. 0.5s, ec. 3.5s fl. 0.5s, ec. 11.5s	151 **46**	**20**	White metal framework tower; 131.	
23768 *K 1246.5*	**Pulau Sepanjang.**	7° 11.5′ S 115° 53.5′ E	**Fl.W.** period 4s fl. 0.5s, ec. 3.5s	144 **44**	**17**	White structure.	
23770 *K 1248.5*	Pulau Sesiil.	7° 05.9′ S 115° 44.5′ E	**Fl.(2)W.** period 8s fl. 0.4s, ec. 1s fl. 0.4s, ec. 6.2s	33 **10**	12	White beacon.	
23771 *K 1246.3*	Pulau Saibus.	7° 04.0′ S 115° 42.7′ E	**Fl.W.** period 6s fl. 1s, ec. 5s	72 **22**	12		
23773 *K 1224*	**Tanjung Candiban.**	7° 53.3′ S 114° 27.7′ E	**Fl.W.** period 3s fl. 0.5s, ec. 2.5s	197 **60**	**18**	White beacon.	**Radar reflector.**
23774 *K 1249*	Pulau Tabuan.	8° 02.2′ S 114° 27.7′ E	**Fl.W.** period 5s fl. 1s, ec. 4s	56 **17**	11	White metal framework tower.	
23775 *K 1282.5*	Pulau Menjangan.	8° 05.6′ S 114° 31.5′ E	**Fl.Y.** period 3s fl. 0.5s, ec. 2.5s	49 **15**	6	SPECIAL Y, beacon, “X” topmark.	
23776 *K 1250*	-Tanjung Bansering Range, front.	8° 04.2′ S 114° 25.5′ E	**Fl.W.** period 4s fl. 1s, ec. 3s	49 **15**	9	White metal framework tower, white triangular daymark point up; 43.	Visible 215°-033°. Entering Bali Strait from the S.
23780 *K 1250.1*	--Rear, 550 meters 005° from front.	8° 03.9′ S 114° 25.6′ E	**Fl.W.** period 4s fl. 1s, ec. 3s	92 **28**	9	White metal framework tower, white triangular daymark point down; 66.	Visible 001°-011°.
23784 *K 1256*	-Tanjung Pasir.	8° 05.9′ S 114° 26.1′ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	72 **22**	12	White metal beacon; 43.	Visible 351°-276°. Obscured by Pulau Tabuan 201°-204°.
23788 *K 1257*	-Meneng.	8° 07.7′ S 114° 24.0′ E	**F.R.**				
23791 *K 1257.5*	-Gilimanuk, entrance.	8° 09.3′ S 114° 26.1′ E	**Fl.R.** period 4s fl. 1s, ec. 3s	39 **12**	8	Red beacon.	
23792 *K 1258*	--S.	8° 09.8′ S 114° 26.1′ E	**Fl.R.** period 4s	39 **12**	8	PORT (A) R, beacon, topmark.	
23792.5 *K 1258.1*	--Off shore.	8° 09.7′ S 114° 26.2′ E	**Fl.Y.** period 3s fl. 0.5s, ec. 2.5s	39 **12**	8	SPECIAL Y, beacon, “X” topmark.	
23804 *K 1282*	**-Tanjung Pengambengan.**	8° 23.9′ S 114° 35.0′ E	**Fl.W.** period 5s fl. 1s, ec. 4s	141 **43**	**18**	White metal framework tower; 131.	
23806 *K 1261*	-Tanjung Sembulungan.	8° 27.3′ S 114° 23.6′ E	**Fl.W.** period 3s fl. 0.6s, ec. 2.4s	62 **19**	12	White beacon; 33.	
23821 *K 1261.5*	**-Bedadung.**	8° 22.7′ S 113° 27.6′ E	**Fl.W.** period 4s fl. 0.5s, ec. 3.5s	138 **42**	**18**	Tower; 33.	
23821.2 *K 1262*	Sempu.	8° 25.5′ S 112° 43.0′ E	**Fl.W.** period 4s fl. 0.4s, ec. 3.6s	75 **23**	12	White beacon.	
23821.3 *K 1262.5*	Teluk Segoro Wegi.	8° 22.2′ S 111° 43.3′ E	**Fl.W.** period 3s fl. 0.3s, ec. 2.7s	167 **51**	12	White beacon.	

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23821.5 *K 1262.8*	Teluk Pacitan.	8° 14.7′ S 111° 05.7′ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	164 **50**	12	White beacon.	
23821.6 *K 1263.9*	Tg. Sadeng.	8° 11.3′ S 110° 47.9′ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	33 **10**	12	White beacon.	
23821.61 *K 1263*	-Range, front.	8° 11.7′ S 110° 47.9′ E	**Iso.W.** period 4s	75 **23**	12	White beacon, white triangular daymark point up.	
23821.62 *K 1263.1*	--Rear, 35 meters 064°29′ from front.	8° 11.6′ S 110° 47.6′ E	**Iso.W.** period 4s	82 **25**	12	White beacon, white triangular daymark point down.	
23821.7 *K 1264*	Tanjung Gunung Batur.	8° 11.2′ S 110° 41.8′ E	**Fl.W.** period 6s fl. 0.5s, ec. 5.5s	272 **83**	12	White beacon.	
23821.9 *K 1264.5*	**Kali Opak.**	8° 00.2′ S 110° 15.8′ E	**Fl.W.** period 4s fl. 0.5s, ec. 3.5s	144 **44**	**15**	White tower.	
23822 *K 1265*	Wates.	7° 55.7′ S 110° 06.6′ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	104 **32**	12	White beacon.	
23822.2 *K 1276.5*	Ketawang.	7° 50.8′ S 109° 53.2′ E	**Fl.G.** period 4s fl. 0.5s, ec. 3.5s	105 **32**	12	Green beacon.	
23822.4 *K 1276.2*	**Klirong.**	7° 46.8′ S 109° 38.2′ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	138 **42**	**15**	White tower.	
23822.6 *K 1276*	Tanjung Karang Batu.	7° 46.3′ S 109° 24.4′ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	207 **63**	12	White beacon.	
23823 *K 1267*	Teluk Penyu.	7° 43.5′ S 109° 01.4′ E	**Iso.W.** period 4s	55 **17**	12	White beacon.	
23823.8 *K 1267.8*	**Penyu Bay.**	7° 41.3′ S 109° 05.5′ E	**L.Fl.W.** period 5s fl. 2s, ec. 3s	49 **15**	**15**	White metal framework tower.	
	CILACAP INLET:						
23824 *K 1268*	**-Cimiring.**	7° 46.9′ S 109° 02.6′ E	**Oc.W.** period 4s lt. 3s, ec. 1s	584 **178**	**30**	White stone tower; 105.	F.R. shown during firing practice. **Radar reflector.**
	-RACON		**K(– • –)**		**17**		
23828 *K 1270.1*	-Entrance Range, front.	7° 45.0′ S 109° 01.4′ E	**Iso.W.** period 4s	56 **17**	8	White tower, white triangular daymark point up.	
23832 *K 1270.11*	--Rear, 475 meters 279° from front.	7° 44.9′ S 109° 01.2′ E	**Iso.W.** period 2s	75 **23**	8	White tower, white triangular daymark point down.	
23836 *K 1272*	-Second Range, front.	7° 45.8′ S 109° 01.5′ E	**Iso.W.** period 4s	56 **17**	8	White tower, white triangular daymark point up.	
23840 *K 1272.1*	--Rear, 125 meters 245°40′ from front.	7° 45.9′ S 109° 01.4′ E	**Iso.W.** period 2s	69 **21**	8	White tower, white triangular daymark point down.	
23844 *K 1274*	-Third Range, front, B3.	7° 45.9′ S 109° 02.0′ E	**Iso.W.** period 2s	39 **12**	7	Beacon, triangular daymark point up.	
23848 *K 1274.1*	--Rear, B4, 89 meters 116° from front.	7° 45.9′ S 109° 02.1′ E	**Iso.W.** period 4s	56 **17**	7	Beacon, triangular daymark point down.	
23852 *K 1270*	-Teluk Penyu.	7° 44.1′ S 109° 01.2′ E	**Fl.W.** period 5s fl. 1.5s, ec. 3.5s	59 **18**	12	White metal framework tower; 49.	

The lighted aids of Indonesia are unreliable and may be extinguished, off station, missing or showing improper characteristics.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			INDONESIA (JAWA-ADJACENT ISLANDS)				
23856 *K 1274.6*	-Tanjung Sodong Range, front.	7° 44.6′ S 108° 59.4′ E	**Fl.W.** period 2s fl. 0.5s, ec. 1.5s	95 **29**	7	Beacon, white triangular daymark point up; 16.	
23860 *K 1274.61*	--Rear, 30 meters 180° from front.	7° 44.6′ S 108° 59.4′ E	**Fl.W.** period 2s fl. 0.5s, ec. 1.5s	98 **30**	7	Beacon, white triangular daymark point down; 20.	
23864 *K 1275.3*	-S. end of jetty.	7° 43.9′ S 108° 59.3′ E	**Fl.R.** period 2s fl. 0.5s, ec. 1.5s	16 **5**	4	PORT (A) R, beacon, topmark; 16.	**Radar reflector.**
23868 *K 1275.4*	-Jetty, N. head.	7° 43.7′ S 108° 59.5′ E	**Fl.R.** period 4s fl. 0.5s, ec. 3.5s	16 **5**	4	PORT (A) R, beacon, topmark; 16.	
23869 *K 1278.2*	Teluk Penanjung, Cikembulan, SE.	7° 41.7′ S 108° 39.5′ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	39 **12**	10	White beacon.	
23869.5 *K 1278*	-Teluk Parigi.	7° 41.5′ S 108° 30.5′ E	**Fl.W.** period 4s fl. 0.5s, ec. 3.5s	39 **12**	10	White beacon.	
23870 *K 1277*	**Legok.**	7° 48.5′ S 108° 28.0′ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	138 **42**	**15**	White tower.	
23870.5 *K 1277.5*	**Manuk Island.**	7° 48.8′ S 108° 18.0′ E	**Fl.(2)W.** period 10s fl. 1s, ec. 1.5s fl. 1s, ec. 6.5s	164 **50**	**20**	White beacon; 98.	
23871 *K 1279*	Teluk Cilauteureum.	7° 39.7′ S 107° 41.0′ E	**Fl.W.** period 6s fl. 0.2s, ec. 5.8s	82 **25**	12	White beacon.	
23871.5 *K 1280*	**Pelabuhan Ratu.**	6° 59.2′ S 106° 32.6′ E	**Fl.W.** period 7.5s fl. 0.5s, ec. 7s	105 **32**	**16**	White beacon.	

The lighted aids of Indonesia are unreliable and may be extinguished, off station, missing or showing improper characteristics.

Section 15

Borneo
Including Sarawak, Sabah and Brunei

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			MALAYSIA (SARAWAK)				
23872 *F 1894*	**Tanjung Datu**.	2° 04.7′ N 109° 38.6′ E	**Fl.W.** period 15s fl. 0.6s, ec. 14.4s	561 **171**	**18**	Round concrete tower; 26.	**AIS** (MMSI No 995330069).
23876 *F 1895.15*	Sungai Sematan Range, front.	1° 48.3′ N 109° 46.7′ E	**Fl.R.** period 4s	30 **9**	4		
23880 *F 1895.151*	-Rear, about 127 meters 212° from front.	1° 48.4′ N 109° 46.4′ E	**Fl.R.** period 4s	39 **12**	4		
23888 *F 1896*	Batu Lundu, Batu Mandi.	1° 43.7′ N 109° 56.4′ E	**Fl.(2)W.** period 10s	23 **7**	7	Black concrete pile, white bands.	
23892 *F 1904.45*	Kuala Moyan.	1° 35.8′ N 110° 35.1′ E	**Fl.W.** period 5s	20 **6**	4	White triangular daymark point up.	
23900 *F 1896.4*	Kuala Sibu Laut.	1° 41.7′ N 110° 12.6′ E	**Fl.W.** period 4s	22 **7**	4	Concrete post.	
23906 *F 1896.85*	**Tg Sipang.**	1° 48.3′ N 110° 20.1′ E	**Fl.W.** period 7.5s		**18**		
23908 *F 1897*	Sungei Butal.	1° 41.8′ N 110° 22.3′ E	**Fl.W.** period 2s	19 **6**	4	Mast, white triangular daymark point up.	
	SUNGEI SARAWAK:						
23910 *F 1897.6*	-Tanjung Patong.	1° 45.2′ N 110° 30.1′ E	**Fl.(2)Y.** period 5s	49 **15**	5	Concrete tower, three-legged pile.	
23916 *F 1898*	**-Tanjung Po.**	1° 43.5′ N 110° 31.4′ E	**Fl.(2)W.** period 10s fl. 0.2s, ec. 2.3s fl. 0.2s, ec. 7.3s	430 **131**	**18**	Pyramidal aluminium tower; 49.	Visible 132°-116°. Partially obscured 102°-116°. **AIS** (MMSI No 995330068).
23920 *F 1900*	-Tanjung Embang Range, front.	1° 37.5′ N 110° 30.5′ E	**Fl.W.** period 3s	70 **21**	8	Metal framework tower, red diamond daymark, yellow stripes.	Reserve light F.W.
23924 *F 1900.1*	--Rear, 762 meters 209°30′ from front.	1° 37.1′ N 110° 30.3′ E	**Fl.W.** period 3s	100 **30**	8	Metal framework tower, red diamond daymark, yellow stripes.	Reserve light F.W.
23928 *F 1901*	-River entrance Range, front.	1° 37.5′ N 110° 27.2′ E	**Fl.(2)G.** period 6s	105 **32**	8	Metal framework tower, red diamond daymark, yellow stripes.	Reserve light F.W.
23932 *F 1901.1*	--Rear, 765 meters 247°18′ from front.	1° 37.3′ N 110° 26.8′ E	**Fl.(2)G.** period 6s	154 **47**	8	Metal framework tower, red diamond daymark, yellow stripes.	Reserve light F.W.
23936 *F 1901.4*	-No 1.	1° 39.0′ N 110° 29.7′ E	**Fl.W.** period 6s	30 **9**	9	White tower.	
23940 *F 1901.6*	-Tg. Batu, No 2.	1° 37.9′ N 110° 27.8′ E	**Q.G.**	30 **9**	4	White fiberglass tower.	
23944 *F 1902.2*	-Tanjung Renard, No 3.	1° 35.5′ N 110° 27.7′ E	**Q.G.**	49 **15**	4	White tower.	
23952 *F 1902.4*	-Batu Blat Reach, No 5.	1° 33.1′ N 110° 24.2′ E	**Q.R.**	30 **9**	4	Red tower; 30.	
	-Horseshoe Reach:						
23996 *F 1904.2*	--No 5.	1° 34.5′ N 110° 22.3′ E	**Q.G.**	26 **8**	10	Concrete structure.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			MALAYSIA (SARAWAK)				
24016 *F 1904.6*	Kuala Semera.	1° 33.5′ N 110° 40.2′ E	**Fl.W.** period 3s	20 **6**	4	White triangular daymark point down.	
24024 *F 1904.75*	Kampong Pendam.	1° 30.7′ N 110° 44.5′ E	**Fl.W.** period 20s	26 **8**	4		
24026 *F 1904.88*	-Pulau Burong.	1° 38.3′ N 110° 48.1′ E	**Fl.W.** period 10s			Metal mast; 90.	
24028 *F 1904.7*	Sungai Sebangan.	1° 32.9′ N 110° 45.9′ E	**Fl.W.** period 6s	30 **9**	8	Metal framework tower, white triangular daymark point up.	
24040 *F 1904.9*	Kuala Tebela.	1° 32.8′ N 110° 51.5′ E	**Fl.W.** period 6s	20 **6**	4	Metal mast, white triangular daymark point up.	
24044 *F 1905*	Batang Lupar, Kampong Sebuyau.	1° 31.3′ N 110° 56.2′ E	**Fl.R.** period 2s	40 **12**	6	Metal mast, white triangular daymark point up.	
24052 *F 1905.8*	Kuala Samarang.	1° 41.0′ N 111° 06.3′ E	**Fl.R.** period 4s	20 **6**	3	White triangular daymark point down.	
24056 *F 1905.6*	Tg. Batang Marau.	1° 45.4′ N 111° 05.1′ E	**Fl.W.** period 4s	39 **12**	5	Framework tower.	
24060 *F 1909.6*	Kuala Nyabor (Kuala Grigat).	2° 03.0′ N 111° 11.0′ E	**Fl.W.** period 4s	20 **6**	4	Mast, white triangular daymark point up.	
24064	*Batang Rajang Approach Buoy.*	2° 10.0′ N 111° 04.0′ E	**Fl.(2)W.** period 10s			Red and white striped buoy.	**Radar reflector.**
24068 *F 1908*	**Tanjung Jerijeh.**	2° 09.3′ N 111° 10.0′ E	**Fl.(3)W.** period 15s fl. 0.2s, ec. 1.6s fl. 0.2s, ec. 1.6s fl. 0.2s, ec. 11.2s	125 **38**	**23**	White metal framework tower, white square daymark, red and yellow checkered trapezoidal daymark; 121.	**AIS** (MMSI No 995330073).
24072 *F 1910*	-Karang Jerijeh.	2° 08.2′ N 111° 11.2′ E	**Q.R.**				
24076 *F 1909.4*	Tg. Selalang.	2° 05.6′ N 111° 12.6′ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	53 **16**	6	White metal framework tower, white square daymark; 55.	
24078 *F 1909.1*	**Wong Sands.**	2° 06.2′ N 111° 08.9′ E	**Fl.W.** period 7.5s	36 **11**	**18**		
	RACON		**R(• – •)**				(3 & 10cm).
24084 *F 1913*	Kuala Belawi.	2° 13.9′ N 111° 11.4′ E	**Fl.W.** period 4s	20 **6**	4	White triangular daymark point down.	
24088 *F 1914*	Tg. Sedi.	2° 25.9′ N 111° 18.1′ E	**Fl.W.** period 5s	33 **10**	6	Framework tower.	
24090 *F 1914.2*	Tg. Pasir.	2° 26.2′ N 111° 15.2′ E	**Fl.W.** period 2s				
24093 *F 1913.9*	**Kual Paloh.**	2° 29.5′ N 111° 11.7′ E	**Fl.(4)W.** period 20s		**16**	Beacon.	
24096 *F 1915*	Kampong Betanak.	2° 37.6′ N 111° 17.6′ E	**Fl.W.** period 15s	20 **6**	4		
24100 *F 1915.5*	Kampong Penipak.	2° 41.9′ N 111° 17.2′ E	**Fl.W.** period 20s	20 **6**	4		
24104 *F 1916*	**Tanjung Sirik.**	2° 46.8′ N 111° 19.3′ E	**Fl.W.** period 10s fl. 0.3s, ec. 9.7s	125 **38**	**23**	Metal framework tower; 118.	**AIS** (MMSI No 995330074).
	RACON		**K(– • –)**				(3 & 10cm).
24105 *F 1915.8*	-Reef, S.	2° 48.7′ N 111° 16.3′ E	**Fl.Y.** period 5s	28 **9**	5	Concrete tower, three-legged pile.	
24107 *F 1915.9*	--N.	2° 51.3′ N 111° 18.4′ E	**Fl.(2)Y.** period 5s	28 **9**	5	Concrete tower, three-legged pile.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			MALAYSIA (SARAWAK)				
24108 *F 1916.4*	Bruit.	2° 42.5′ N 111° 22.8′ E	**Q.W.**	20 **6**	5	Mast, triangular daymark point up; 20.	
24112 *F 1917*	Tanjung Jol.	2° 41.8′ N 111° 25.9′ E	**Fl.(3)W.** period 15s	39 **12**	8	Metal mast, triangular daymark point up; 20.	
24116 *F 1917.4*	Kuala Matu.	2° 42.8′ N 111° 28.0′ E	**Fl.(2)W.** period 10s	21 **6**	5	Metal mast, white triangular daymark point up; 20.	
24120.5 *F 1918.4*	Tanjung Duga.	2° 50.1′ N 111° 40.6′ E	**Q.W.**	20 **6**	5	Beacon, white triangular daymark point up.	
24122 *F 1918.21*	Kuala Igan.	2° 51.0′ N 111° 38.5′ E	**Fl.W.** period 3s	47 **14**	5		
24124 *F 1920*	Kuala Oya, Entrance, W. side.	2° 52.5′ N 111° 52.4′ E	**Fl.W.** period 6s	30 **9**	5	Metal tripod, white triangular daymark point up.	
24125 *F 1920.2*	-Beacon.	2° 53.2′ N 111° 52.2′ E	**Fl.W.** period 7s		4	Beacon.	
24134 *F 1922.4*	Kuala Mukah Range, front.	2° 54.5′ N 112° 05.6′ E	**Q.R.**	26 **8**	9	Metal framework tower; 30.	
24134.1 *F 1922.41*	-Rear, 180°05′ from front.	2° 54.1′ N 112° 05.7′ E	**Q.R.**	49 **15**	9	Metal framework tower; 30.	
24135.5 *F 9516.31*	D35 Q-A Platform RACON.	3° 45.8′ N 112° 03.8′ E	**D(– • •)**		10	Platform.	
24140 *F 1923.41*	Batang Balingian.	3° 00.9′ N 112° 35.3′ E	**Fl.(2)W.** period 6s	50 **15**	5	White metal framework tower, white triangular daymark point up; 59.	
24141 *F 9526.3*	Central Luconia Gas Field Platform.	4° 20.1′ N 112° 40.7′ E	**Mo.(U)W.** period 15s		**15**	Platform.	
	RACON		**L(• – • •)**				
24142 *F 1923.6*	Kuala Tatau, N.	3° 05.7′ N 112° 47.5′ E	**Fl.(2)W.** period 10s	16 **5**	5		
24144 *F 1923.7*	Kuala Tatau entrance Range, front.	3° 05.0′ N 112° 47.7′ E	**Fl.W.** period 4s	16 **5**	6		
24148 *K 1923.71*	-Rear, 162° from front.	3° 05.2′ N 112° 47.4′ E	**Fl.W.** period 4s	39 **12**	6		
24152 *F 9516.4*	Tanjung Kidurong Approach.	3° 15.0′ N 112° 42.0′ E	**Mo.(U)W.** period 15s			Vent stack.	
24156 *F 1924*	Kuala Bintulu Range, front.	3° 11.2′ N 113° 02.0′ E	**F.G.**	39 **12**	6		Moved to meet changes in the channel.
24160 *F 1924.1*	-Rear, 91 meters 098°30′ from front.	3° 11.2′ N 113° 02.1′ E	**F.G.**	67 **20**	6	White framework tower.	Tidal signals.
24164 *F 1924.3*	Kuala Bintulu, N. side of entrance.	3° 11.3′ N 113° 01.5′ E	**Fl.(2)W.** period 10s	26 **8**	5		Fl.(2)G. 6s 5M marks stranded wreck 430 meters SSW.
24168 *F 1925*	**Tanjung Kidurong.**	3° 16.5′ N 113° 04.0′ E	**Fl.(2)W.** period 15s	295 **90**	**23**	Metal framework tower; 69.	**AIS** (MMSI No 995330077).
	BINTULU:						
24172 *F 1925.2*	-Outer Range, front.	3° 15.3′ N 113° 04.3′ E	**Iso.R.** period 12s	98 **30**	**15**	White trapezoidal daymark; 98.	**Radar reflector.**
24176 *F 1925.21*	--Rear, 840 meters 100°04′ from front.	3° 15.2′ N 113° 04.8′ E	**Iso.R.** period 12s	148 **45**	**18**	White trapezoidal daymark; 148.	Synchronized with front. **Radar reflector.**
24176.3 *F 1925.57*	-Resilient Beacon.	3° 16.4′ N 112° 57.3′ E	**Iso.W.** period 2s	33 **10**		Beacon, red and white round daymark.	Landfall mark.
	-RACON		**B(– • • •)**				(3 & 10cm).

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			MALAYSIA (SARAWAK)				
24176.6 *F 1925.58*	-BPA Beacon.	3° 15.3′ N 113° 02.8′ E	**Q.W.**	20 **6**	8	White pile.	
24176.7 *F 1925.25*	-Outer breakwater 27.	3° 15.8′ N 113° 03.0′ E	**Oc.R.** period 6s	19 **6**	5	Red structure.	
24177 *F 1925.3*	-Inner Range 28A, front.	3° 15.7′ N 113° 04.7′ E	**Iso.R.** period 6s	39 **12**	14	Red trapezoidal daymark; 59.	**Radar reflector.**
24178 *F 1925.31*	--Rear 28B, 200 meters 085°04′ from front.	3° 15.7′ N 113° 04.8′ E	**Iso.R.** period 6s	52 **16**	14	Red trapezoidal daymark; 72.	Synchronized with front. **Radar reflector.**
24178.5 *F 1925.35*	-LNG basin, 16.	3° 15.8′ N 113° 03.7′ E	**Fl.R.** period 2s				
24178.6 *F 1925.33*	--32.	3° 15.8′ N 113° 03.4′ E	**Fl.R.** period 2s				
24179 *F 1925.4*	-Inner breakwater, N., 26.	3° 15.7′ N 113° 04.0′ E	**Oc.R.** period 4s	10 **3**	5	Red structure.	
24179.5 *F 1925.45*	--S., 25.	3° 15.5′ N 113° 04.0′ E	**Oc.G.** period 4s	10 **3**	5	White structure.	
24180 *F 1925.55*	-Shell loading jetty, 33.	3° 15.6′ N 113° 04.4′ E	**Oc.R.** period 5s	10 **3**	5		
24180.5 *F 1925.5*	-Petroleum jetty 34.	3° 15.7′ N 113° 04.5′ E	**Oc.R.** period 5s	10 **3**	5		
24181 *F 1925.78*	-Batu Likau.	3° 22.1′ N 113° 07.9′ E	**Fl.Y.** period 5s	38 **11**	5	Concrete tower, four-legged pile.	
24184 *F 1925.8*	**Tanjung Payong.**	3° 44.2′ N 113° 25.4′ E	**Fl.W.** period 10s	75 **23**	**16**	Fiberglass beacon.	
24188 *F 1926*	Kuala Suai Range, front.	3° 47.6′ N 113° 29.5′ E	**Fl.W.** period 6s		4	White triangular daymark point up.	
24192 *F 1926.1*	-Rear, 30 meters from front.	3° 47.7′ N 113° 29.4′ E	**Fl.W.** period 6s		4	White triangular daymark point down.	
24196 *F 1926.6*	Kuala Niah.	3° 58.0′ N 113° 42.3′ E	**Fl.W.** period 6s	23 **7**	5		
24204 *F 1928*	Kuala Sibuti Range, front.	3° 59.4′ N 113° 43.7′ E	**Fl.W.** period 3s	16 **5**	4	White triangular daymark point up.	
24208 *F 1928.1*	-Rear, 30 meters from front.	3° 59.5′ N 113° 43.4′ E	**Fl.W.** period 3s	19 **6**	4	White triangular daymark point down.	
24212 *F 1929*	Kuala Bakam.	4° 15.8′ N 113° 56.0′ E	**Fl.W.** period 6s	20 **6**	4	Mast, white triangular daymark point up.	
24216 *F 1930*	**Miri, Tanjung Lobang.**	4° 21.7′ N 113° 57.7′ E	**Fl.W.** period 10s fl. 1s, ec. 9s	154 **47**	**16**	Gray metal framework tower; 92.	**AIS** (MMSI No 995330076).
24231 *F 1932.6*	Kuala Baram, NW.	4° 36.1′ N 113° 56.1′ E	**Fl.Y.** period 5s	29 **9**	5	Concrete tower, three-legged pile.	
24238 *F 1932.9*	Kuala Baram, SE.	4° 35.6′ N 113° 57.3′ E	**Fl.W.** period 2s				
24240 *F 1934*	**Tanjung Baram.**	4° 35.7′ N 113° 58.6′ E	**Fl.(3)W.** period 20s fl. 0.2s, ec. 3.8s fl. 0.2s, ec. 3.8s fl. 0.2s, ec. 11.8s	128 **39**	**23**	Gray metal framework tower; 148.	**AIS** (MMSI No 995330075).
			BRUNEI				
24241 *F 1934.5*	Kuala Belait Range, front.	4° 35.2′ N 114° 10.9′ E	**F.G.**	19 **6**	2		May be moved to meet changes in channel.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			BRUNEI				
24241.5 *F 1934.51*	-Rear, 103°30′ front.	4° 35.3′ N 114° 10.7′ E	**F.G.**	19 **6**	2		
24244 *F 1934.9*	Sungai Tutong.	4° 46.8′ N 114° 36.3′ E	**Fl.(2)W.**	33 **10**	4	Metal mast.	
24245 *F 1935*	Binturan Firing Range, B1.	4° 53.2′ N 114° 40.6′ E	**Fl.Y.** period 10s			Gray beacon.	
24245.2 *F 1935.2*	-B2.	4° 56.0′ N 114° 45.2′ E	**Fl.Y.** period 5s			Gray beacon.	
24248 *F 1934.8*	Ampa Patches.	4° 57.1′ N 114° 22.3′ E	**Fl.(4)W.** period 20s	57 **17**	12	Metal tripod.	
24249 *F 9527.48*	**-Magpie Oilfield.**	5° 06.0′ N 114° 27.0′ E	**Fl.(3)W.** period 10s	98 **30**	**15**	Oil platform.	
	-RACON		**M(– –)**				(3 & 10cm).
24252 *F 9527.3*	**Fairley Oilfield.**	4° 56.7′ N 114° 04.2′ E	**Fl.(2)W.** period 10s	79 **24**	**15**	Platform.	
	RACON		**F(• • – •)**		**20**		(3 & 10cm).
	BRUNEI CHANNEL:						
24256 *F 1939*	-North Rambler Banks, No 26.	4° 59.3′ N 115° 05.8′ E	**Fl.R.** period 4s	29 **9**	5	Platform, concrete pile structure, yellow square daymark, black top.	Tide gauge. **Radar reflector.**
24256.2 *F 1939.5*	-No 20.	4° 59.6′ N 115° 05.5′ E	**Q.(3)+L.Fl.W.** period 15s			Black beacon, yellow band, two triangular daymark bases together.	**Radar reflector.**
24257 *F 1940*	-Muara Bar, No 27.	4° 59.5′ N 115° 05.3′ E	**Q.(3)W.** period 10s	18 **5**	8	E. CARDINAL BYB, beacon, topmark.	**Radar reflector.**
24258 *F 1940.2*	-Pulau Maura Besar Range, front.	4° 59.7′ N 115° 05.9′ E	**F.W.**	33 **10**	10	Beacon, white triangular daymark point up.	
24259 *F 1940.21*	--Rear, 280 meters 051° from front.	4° 59.8′ N 115° 06.0′ E	**F.W.**	53 **16**	12	Beacon, white triangular daymark point down.	
24260 *F 1940.3*	-Badu Kang East, No 28.	4° 57.7′ N 115° 03.8′ E	**Fl.R.** period 3s	30 **9**	5	Three pile concrete structure, red diamond daymark.	**Radar reflector.**
24264 *F 1940.4*	-Badu Kang West, No 29.	4° 58.0′ N 115° 03.4′ E	**Fl.G.** period 3s	30 **9**	6	Three pile concrete structure, green diamond daymark.	**Radar reflector.**
24265 *F 1941*	-South BarBank No 30 Range, front.	4° 56.2′ N 115° 01.9′ E	**Fl.(2)R.** period 3s	29 **9**	4	Wooden framework tower, concrete pile structure, red square daymark.	
24266 *F 1941.1*	--Pulau Churmin, N. end, rear, about 880 meters 226°54′ from front.	4° 55.9′ N 115° 01.5′ E	**Fl.(2)W.** period 10s	52 **16**	12	Metal framework tower, red and white square daymark.	
24268 *F 1941.2*	-Barrier Bar, No 31.	4° 56.0′ N 115° 01.7′ E	**Q.G.**	26 **8**	4	Concrete tripod, green square daymark.	**Radar reflector.**
24272 *F 1941.6*	-Churmin Rock No 32.	4° 56.0′ N 115° 01.5′ E	**Q.R.**	26 **8**	4	Concrete tripod, red square daymark.	**Radar reflector.**
24276 *F 1941.8*	-Tanjong Simasta No 33.	4° 54.3′ N 115° 00.3′ E	**Fl.(2)G.** period 3s	30 **9**	4	Concrete tripod, green square daymark.	
24280 *F 1942*	-Pelambayan No 35.	4° 53.1′ N 114° 58.6′ E	**Fl.G.** period 10s	24 **7**	4	Concrete tripod, green square daymark.	
24284 *F 1942.4*	-Buang Tawar No 36.	4° 52.5′ N 114° 58.0′ E	**Fl.R.** period 3s	30 **9**	4	Concrete tripod, red square daymark.	
24288 *F 1942.7*	-Bandar Seri Begawan, Kota Batu No 37.	4° 52.4′ N 114° 57.7′ E	**Fl.G.** period 5s	20 **6**	2	Concrete pile structure, green square daymark.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			BRUNEI				
24290 *F 1942.9*	-No 38.	4° 51.7′ N 114° 56.9′ E	**Q.R.**			Red beacon, square daymark.	
24292 *F 1943*	-Pulau Sibungor, No 39.	4° 51.8′ N 114° 57.3′ E	**Fl.G.** period 2s fl. 0.5s, ec. 1.5s	30 **9**	4	Concrete tripod, green triangular daymark point up.	
24294 *F 1943.2*	-No 41.	4° 52.4′ N 114° 57.0′ E	**Fl.(4)G.** period 10s			Green beacon, triangular daymark point up.	
24295 *F 1943.3*	-No 38A.	4° 52.5′ N 114° 56.9′ E	**Fl.(2)R.** period 15s			Red beacon, square daymark.	
24296 *F 1943.4*	-No 40.	4° 52.8′ N 114° 57.0′ E	**Fl.(4)R.** period 10s	36 **11**	5	Concrete tripod, red square daymark.	
24298 *F 1943.5*	-No 42.	4° 53.0′ N 114° 56.9′ E	**Fl.R.** period 5s			Red beacon, square daymark.	
24315 *F 1945*	Tanjung Trusan.	4° 58.5′ N 115° 10.7′ E	**Fl.W.** period 6s	36 **11**	10	White framework tower, white triangular daymark point up.	
24316 *F 1938*	Tanjung Sapo, on Pulau Muara Besar, No 22.	4° 59.7′ N 115° 07.7′ E	**Fl.W.R.** period 10s fl. 1s, ec. 9s	91 **28**	10	Silver metal framework tower.	R. 153°-221°, W.-088°. Lighted beacons 60, 62, 64 and 66 mark channel to Tg. Lumba Lumba.
	MUARA HARBOR:						
24328 *F 1936.5*	-Muara entrance Range, front.	5° 01.3′ N 115° 05.1′ E	**F.G.**	49 **15**	10	Pile, red triangular daymark point up, white stripes.	
24332 *F 1936.51*	--Rear, 1037 meters 209°37′ from front.	5° 00.8′ N 115° 04.8′ E	**F.G.**	92 **28**	12	Framework tower, red triangular daymark point down, white stripes.	
24334 *F 1936.55*	-No 1AW.	5° 04.0′ N 115° 06.5′ E	**Q.G.**	36 **11**	6	Green pile beacon.	
24335 *F 1936.56*	-No 2AE.	5° 03.9′ N 115° 06.7′ E	**Q.R.**	36 **11**	6	Red pile beacon.	
24336 *F 1936.4*	-No 1, near W. breakwater, head.	5° 03.6′ N 115° 06.3′ E	**Q.G.**	35 **11**	6	Concrete pile structure, green square daymark.	**Radar reflector.**
24340 *F 1936.42*	-No 2, East.	5° 03.5′ N 115° 06.5′ E	**Q.R.**	36 **11**	6	Concrete pile structure, red square daymark.	**Radar reflector.**
24344 *F 1936.43*	-Training Wall No 3, West.	5° 03.1′ N 115° 06.0′ E	**Fl.G.** period 3s	30 **9**	6	Concrete pile structure, green square daymark.	**Radar reflector.**
24348 *F 1936.44*	-No 4, East.	5° 03.0′ N 115° 06.2′ E	**Fl.R.** period 3s	30 **9**	4	Concrete pile structure, red square daymark.	**Radar reflector.**
24352 *F 1936.45*	-No 5, West.	5° 02.4′ N 115° 05.6′ E	**Fl.G.** period 5s	30 **9**	6	Green pile.	**Radar reflector.**
24356 *F 1936.46*	-No 6, East.	5° 02.5′ N 115° 05.9′ E	**Fl.R.** period 5s	30 **9**	4	Concrete pile structure, red square daymark.	**Radar reflector.**
24360 *F 1936.6*	-No 7, near W. breakwater, head.	5° 02.1′ N 115° 05.4′ E	**Fl.(3)G.** period 5s	30 **9**	6	Platform, concrete tripod, green square daymark.	**Radar reflector.**
24362 *F 1936.47*	-SE. of Naval Base.	5° 01.8′ N 115° 05.4′ E	**Q.R.**		4	Red beacon.	
24364 *F 1937*	-No 12, close NW. of Tanjong Ledong.	5° 01.3′ N 115° 04.6′ E	**Fl.(2)R.** period 5s	19 **6**	3	Platform, piles, red and white square daymark.	**Radar reflector.**
24365 *F 1937.2*	-No 14.	5° 00.8′ N 115° 04.5′ E	**Fl.R.** period 10s	26 **8**	3	Platform, three pile concrete structure, red square daymark.	**Radar reflector.**
24366 *F 1937.25*	-No 16.	5° 00.3′ N 115° 04.8′ E	**Fl.(2)R.** period 15s	29 **9**	3	Platform, three pile concrete structure, red square daymark.	Fl.(4)Y. beacon marks sewer end 0.7 mile W. **Radar reflector.**

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			BRUNEI				
24367 *F 1937.3*	-No 18.	4° 59.9′ N 115° 05.1′ E	**Fl.R.** period 5s	29 **9**	3	Platform, three pile concrete structure, red square daymark.	**Radar reflector.**
24368 *F 1936*	Pelong Rocks, southern summit.	5° 04.7′ N 115° 03.2′ E	**Fl.(3)W.** period 15s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 11.5s	79 **24**	13	Aluminum framework tower; 36.	
24372 *F 9527.5*	**-Champion Shoals.**	5° 12.6′ N 114° 44.7′ E	**Fl.(4)W.** period 10s		**15**		
	-RACON		**C(– • – •)**				
			MALAYSIA (SABAH)				
24375 *F 9536.55*	Ardasier Reef.	7° 37.1′ N 113° 55.9′ E	**Fl.R.**	33 **10**		Red beacon.	
24376 *F 2825.2*	Layang-Layang, Swallow Reef.	7° 22.5′ N 113° 50.8′ E	**Fl.W.** period 5s	26 **8**	10	Gray triangular concrete tower.	
24380 *F 2825.3*	Semarang Barat Besar, Royal Charlotte Reef.	6° 57.0′ N 113° 36.0′ E	**Fl.(2)W.** period 10s	26 **8**	10	Gray triangular concrete tower.	
24384 *F 2825.4*	Semarang Barat Kecil, Louisa Reef.	6° 20.0′ N 113° 14.0′ E	**Fl.W.** period 10s	26 **8**	10	Gray triangular concrete tower.	
	BRUNEI BAY:						
24386.2 *F 1945.2*	-Kuala Lawas.	4° 59.2′ N 115° 24.5′ E	**Fl.R.** period 3s	20 **6**	5		
24387 *F 1946*	Sipitang.	5° 05.0′ N 115° 32.8′ E	**Fl.R.** period 5s			Beacon, red square daymark.	
24387.5 *F 1946.3*	-Kuala Padas.	5° 08.0′ N 115° 31.7′ E	**L.Fl.(2)W.** period 10s	23 **7**	5	Red pillar, white stripes, red ball topmark.	
24388 *F 1946.5*	-Teluk Padas.	5° 09.5′ N 115° 31.6′ E	**Fl.R.** period 3s	20 **6**	5	Pile, red square daymark.	
24390 *F 1946.8*	Batuan Keraman.	5° 12.0′ N 115° 07.3′ E	**Fl.Y.** period 5s	26 **8**	5	Yellow beacon, piles.	
24392 *F 1947*	**Pulau Kuraman.**	5° 13.4′ N 115° 08.1′ E	**Fl.W.** period 5s fl. 0.4s, ec. 4.6s	215 **66**	**24**	White tower, red dome; 50.	Obscured from NE. by Pulau Labuan.
24396 *F 1949*	Pulau Papan.	5° 15.2′ N 115° 16.1′ E	**Fl.W.** period 7s	121 **37**	10	White metal tower, red bands.	**AIS** (MMSI No 005330109).
	VICTORIA (LABUAN):						
24404 *F 1951.8*	-New Liberty Pier, SE. head.	5° 16.3′ N 115° 14.7′ E	**F.R.**		5	Dolphin.	
24418 *F 1951.6*	-ASB jetty, head.	5° 15.5′ N 115° 14.7′ E	**F.R.**				
24424 *F 1951.3*	-Hamilton Point, Flour Feed Mill Pier.	5° 14.8′ N 115° 14.7′ E	**F.R.**		5		F.R. on mill roof 400 meters WNW.
24440 *F 1948*	-Bethune Head.	5° 23.5′ N 115° 15.1′ E	**Fl.(2)W.** period 15s	151 **46**	10	White metal framework tower; 79.	
24442.1 *F 1953.2*	Sarangtiong.	5° 17.4′ N 115° 22.1′ E	**Fl.G.** period 5s	30 **9**	6	Five-legged metal structure, green triangular daymark point up.	
24442.2 *F 1953.4*	-Off N. end.	5° 17.9′ N 115° 22.5′ E	**Fl.R.** period 5s	30 **9**	5	Five-legged metal structure, red square daymark.	Visible 185°-050°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			MALAYSIA (SABAH)				
24443 *F 1954.2*	Pine Point Shoals.	5° 33.3′ N 115° 27.1′ E	**Fl.R.** period 5s		8		
24445 *F 1954.5*	Nosong Shoals.	5° 43.1′ N 115° 30.3′ E	**Fl.G.** period 3s		4		
24446 *F 1955*	**Pulau Tiga.**	5° 44.0′ N 115° 38.3′ E	**Fl.W.** period 10s	236 **72**	**15**	White metal tower, red band.	**AIS** (MMSI No 005331913).
24448 *F 1955.6*	Dunlop Shoals.	5° 41.7′ N 115° 37.7′ E	**Fl.G.** period 3s	23 **7**	3	Pile beacon, green triangular daymark point up.	
24450 *K 1954.4*	Tangut Rock.	5° 38.7′ N 115° 35.9′ E	**Fl.R.** period 3s		8		
24452 *F 1955.7*	Kuala Penyu.	5° 35.0′ N 115° 37.7′ E	**Fl.R.** period 3s	20 **6**	5	Pile, red square daymark.	
24457 *F 1955.8*	Tanjung Papar.	5° 44.9′ N 115° 54.0′ E	**Fl.G.** period 5s	20 **6**	5	Pile, green triangular daymark point up.	
24460 *F 9537.5*	Dampier Shoals, KTMP-A.	6° 06.0′ N 115° 36.0′ E	**Fl.(2)W.** period 15s		10	Platform.	
24464 *F 1956*	**Pulau Gaya.**	6° 02.4′ N 116° 00.7′ E	**Fl.W.** period 10s	554 **169**	**15**	White metal tower, red band.	Visible 030°-282°. **AIS** (MMSI No 005331902).
24468 *F 1956.6*	Pulau Plompong.	6° 00.7′ N 116° 04.4′ E	**Fl.G.** period 3s	32 **10**	6	STARBOARD (A) G, structure, topmark.	
	KOTA KINABALU (JESSELTON):						
24472 *F 1957*	-E. side of Grieve Reef.	6° 00.1′ N 116° 04.5′ E	**Fl.(2)W.** period 7s	42 **13**	6	ISOLATED DANGER BRB, column, topmark; 23.	
24476 *F 1957.3*	-No 2.	6° 00.1′ N 116° 04.2′ E	**Fl.G.** period 3s	33 **10**	6	STARBOARD (A) G, structure, topmark.	
24480 *F 1958*	-Gueritz Shoal.	6° 00.0′ N 116° 04.8′ E	**Fl.W.** period 2s				F.R. on radio masts 2.9 miles and 4 miles SSW. R. light on building 2 miles ENE.
24484 *F 1957.8*	-Comber Reef.	6° 00.1′ N 116° 05.1′ E	**Q.R.**		3	Red pile, square daymark.	
24488 *F 1957.9*	-Tanjong Lipat.	5° 59.9′ N 116° 05.1′ E	**Fl.R.** period 2s		3	Red pile, ball topmark.	
24492 *F 1957.6*	--Normanhurst Reef.	6° 00.2′ N 116° 05.1′ E	**Fl.G.** period 3s		3	Green pile, triangular daymark point up.	
24496 *F 1957.7*	--SW. end.	6° 00.1′ N 116° 05.0′ E	**Fl.R.** period 3s	36 **11**	4	Red pile, square daymark.	
24500 *F 1958.05*	-Pier, head.	6° 00.0′ N 116° 05.0′ E	**F.R.**			Mooring dolphin.	
24504 *F 1958.2*	-Harris Reef.	5° 59.8′ N 116° 04.4′ E	**Fl.G.** period 2s				
24508 *F 1958.9*	-Tanjong Aru.	5° 57.6′ N 116° 01.5′ E	**Fl.G.** period 5s	18 **5**	5	Pile, green triangular daymark point up.	
24510 *F 1959.8*	Sapangar Bay.	6° 04.6′ N 116° 07.1′ E	**Fl.G.** period 3s	33 **10**	6	Beacon, green triangular daymark point up.	Fl.G. 3s on beacon 0.8 mile NE.
24510.7 *F 1959.46*	-Jetty.	6° 05.0′ N 116° 06.6′ E	**Fl.Y.** period 6s	7 **2**	5	Beacon, "X" topmark.	
24510.8 *F 1959.45*	-Breakwater, head.	6° 04.9′ N 116° 06.5′ E	**Fl.Y.** period 4s	7 **2**	5	Beacon, "X" topmark.	
24510.9 *F 1959.44*	--Elbow.	6° 04.8′ N 116° 06.5′ E	**Fl.Y.** period 2s	7 **2**	5	Beacon, "X" topmark.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			MALAYSIA (SABAH)				
24511 *F 1959.4*	-Melanim Point.	6° 04.6′ N 116° 06.2′ E	**Fl.R.** period 3s	33 **10**	6	Beacon, red square daymark.	Fl.R. 3s on beacons 0.9 mile and 1.5 miles NE.
24513 *F 1959.82*	Tanjong Dalit.	6° 09.5′ N 116° 08.4′ E	**Fl.W.** period 5s	26 **8**	5		
24515 *F 1961.3*	Slime Rock.	6° 23.3′ N 116° 19.2′ E	**Fl.R.** period 5s	31 **9**	8	Red five-legged metal beacon, square topmark.	Visible 297°-158°.
24520 *F 1961.5*	Tanjong Nabolan.	6° 22.0′ N 116° 20.0′ E	**Fl.G.** period 5s	33 **10**	4	Green five-legged metal beacon, triangular daymark point up.	
24524 *F 1962*	**Mantanani Islands.**	6° 42.7′ N 116° 18.3′ E	**L.Fl.W.** period 10s fl. 2s, ec. 8s	155 **47**	**15**	Round stone tower; 16.	Visible 278°-258°.
24528 *F 9538.2*	South Furious Shoals, SFV-A.	6° 47.0′ N 116° 14.0′ E	**Mo.(U)W.** period 15s			Vent stack.	
24532 *F 1964*	**Pulau Kalampunian.**	7° 03.1′ N 116° 44.7′ E	**Fl.W.** period 10s	105 **32**	**15**	White metal tower, red band.	**AIS** (MMSI No 005331903).
24536 *F 1968*	-Sandilands Rock.	6° 52.3′ N 116° 51.7′ E	**Fl.G.** period 3s fl. 0.5s, ec. 2.5s	26 **8**	7	Green tripod; 26.	
	KUDAT HARBOR:						
24540 *F 1969*	-Gueritz Rock.	6° 52.5′ N 116° 51.0′ E	**Q.R.**	18 **5**	3	Pile, black and white checkered triangular daymark point up; 16.	
24544 *F 1970*	-Wharf, head.	6° 52.7′ N 116° 50.7′ E	**F.R.**			Dolphin.	
24545 *F 1974.3*	Sungai Murudu.	6° 36.9′ N 116° 49.3′ E	**Fl.R.** period 5s		5	PORT (A) R, beacon, topmark.	
24545.5 *F 1974*	Sungai Mattunggong.	6° 39.1′ N 116° 48.8′ E	**Fl.G.** period 5s		5	STARBOARD (A) G, beacon, topmark.	
24546 *F 1971*	Pulau Bengkoka.	6° 50.2′ N 117° 00.6′ E	**Fl.G.** period 5s			Beacon, green triangular daymark point up.	
24547 *F 1973*	Zebra Reefs.	6° 45.3′ N 116° 58.1′ E	**Fl.G.** period 5s			Beacon, green triangular daymark point up.	
24553 *F 1976.2*	South Channel Dangers.	7° 04.9′ N 117° 08.8′ E	**Fl.R.** period 5s	23 **7**	6	Pile, red square daymark.	
24561 *F 1977.5*	-Eastwards.	6° 59.1′ N 117° 19.6′ E	**Fl.R.** period 5s			Pile, red square daymark.	
24564 *F 1978.6*	Lubani Rock.	6° 53.8′ N 117° 23.2′ E	**Fl.G.** period 3s	23 **7**	4	Green pile beacon, triangular daymark point up.	
24568 *F 1978*	**Pulau Kukuban.**	6° 55.9′ N 117° 24.4′ E	**Fl.W.** period 10s	72 **22**	**15**	White metal tower, red bands.	**AIS** (MMSI No 005331904).
24570 *F 1978.8*	Dampier Rock.	6° 51.5′ N 117° 31.9′ E	**Fl.(2)W.** period 8s	36 **11**	5	Beacon; 33.	
24580 *F 1979*	-Gibson Reef.	6° 50.3′ N 117° 32.9′ E	**Fl.G.** period 5s	23 **7**	5	STARBOARD (A) G, pile, topmark.	
24584 *F 1978.9*	Sipindung Cay.	6° 51.5′ N 117° 32.9′ E	**Q.R.**	20 **6**	3	PORT (A) R, pile, topmark.	
24585 *F 1979.3*	Harrison Reef.	6° 50.1′ N 117° 34.4′ E	**Fl.R.** period 5s	26 **8**	6	Pile, red square daymark.	
24587 *F 1979.7*	Pole Reef.	6° 45.6′ N 117° 39.5′ E	**Fl.R.** period 10s		5	Beacon; 33.	
24589 *F 1979.8*	Leonan Reef.	6° 44.5′ N 117° 37.5′ E	**Fl.G.** period 5s	20 **6**	5	Pile, green triangular daymark point up.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			MALAYSIA (SABAH)				
24593 *F 1981*	Pulau Lankayan.	6° 31.1′ N 117° 55.1′ E	**Fl.G.** period 5s			Beacon; 33.	**AIS** (MMSI No 005331912).
24596 *F 1982*	**Pulau Silingaan.**	6° 10.3′ N 118° 03.6′ E	**Fl.W.** period 10s	85 **26**	**15**	Red metal tower, white band; 82.	**AIS** (MMSI No 005331905).
24596.2 *F 1982.08*	-Reef, P. Silingaan, E.	6° 10.5′ N 118° 04.4′ E	**Fl.R.** period 10s	20 **6**	**15**	PORT (A) R, beacon, topmark.	
24596.4 *F 1982.14*	-Reef, P. Silingaan, SE.	6° 10.2′ N 118° 04.4′ E	**Fl.R.** period 5s		5	PORT (A) R, beacon, topmark.	
24600 *F 1982.4*	Pulau Bonting.	6° 06.9′ N 118° 00.0′ E	**Q.W.**	35 **11**	3	White pile, red bands.	
24604 *F 1984*	**-Pulau Berhala.**	5° 52.3′ N 118° 08.8′ E	**Fl.W.** period 10s	635 **194**	**28**	White framework tower; 66.	**AIS** (MMSI No 005331906).
24604.2 *F 1984.8*	--SW.	5° 51.7′ N 118° 08.5′ E	**Fl.(2)W.** period 6s	23 **7**	5	ISOLATED DANGER BRB, beacon, topmark.	
24605 *F 1986.5*	Allard Bank.	5° 49.3′ N 118° 05.9′ E	**Fl.G.** period 5s	23 **7**	5	STARBOARD (A) G, beacon, topmark.	
24606 *F 1985*	Sandakan Harbor, entrance to Trusan Duyong.	5° 48.4′ N 118° 08.9′ E	**Fl.R.** period 5s			Beacon, red square daymark.	
24608 *F 1986*	-Reef.	5° 48.0′ N 118° 04.0′ E	**Q.G.**	16 **5**	3	Pile, green triangular daymark point up; 16.	Q.R. on radio mast 3 miles NE.
24608.2 *F 1985.7*	-On reef E. of Tg. Buli Luku.	5° 47.2′ N 118° 03.8′ E	**Fl.R.** period 5s		5	Beacon, red square daymark.	
24609 *F 1985.3*	-Pulau Bai, NE.	5° 47.8′ N 118° 07.5′ E	**V.Q.(3)W.** period 5s		6	E. CARDINAL BYB, beacon, topmark.	
24610 *F 1985.5*	--NW.	5° 47.0′ N 118° 05.5′ E	**Fl.R.** period 5s		5	Beacon, red square daymark.	
24612 *F 1987*	**Selat Kinabatangan.**	5° 38.9′ N 118° 36.1′ E	**Fl.W.** period 10s	79 **24**	**15**	White metal framework tower, red bands.	
24616 *F 1987.5*	Pegasus Reef.	5° 46.6′ N 118° 50.0′ E	**Fl.(2)W.** period 8s	46 **14**	9	ISOLATED DANGER BRB, structure, topmark.	
24620 *F 1988*	**Tanjong Terang.**	5° 25.5′ N 119° 12.5′ E	**Fl.W.** period 10s	118 **36**	**15**	White metal tower, red bands; 75.	**AIS** (MMSI No 005331907).
24624 *F 1988.3*	**Tanjong Labian.**	5° 08.5′ N 119° 12.8′ E	**Fl.W.** period 10s	118 **36**	**15**	White metal tower; red bands.	**AIS** (MMSI No 005331908).
24632 *F 1989*	**Tanjong Membatu.**	4° 56.5′ N 118° 38.3′ E	**Fl.W.** period 5s	230 **70**	**15**	White metal framework tower.	
24636 *F 1990*	Armstrong Reef.	4° 56.0′ N 118° 26.0′ E	**Fl.(2)G.** period 15s	26 **8**	7	Green framework tower.	
24640 *F 1990.2*	Pulau Sakar, off E. end.	4° 59.0′ N 118° 23.7′ E	**Q.R.**	18 **5**	3	Red pile; 16.	
24644 *F 1990.24*	About 2.8 kilometers NE. of Pulau Sakar.	4° 59.8′ N 118° 24.8′ E	**Fl.G.** period 3s	20 **6**	3	Green tripod.	
24648 *F 1990.3*	Halloran Reef.	4° 59.6′ N 118° 21.8′ E	**Q.R.**	15 **5**	3	Pile, red and white checkered square daymark.	
24652 *F 1990.4*	Voorwyk Reef.	5° 00.5′ N 118° 20.9′ E	**Q.R.**	18 **5**	3	Pile, red square daymark.	
24656 *F 1990.5*	Darvel Bay, Lahad Datu.	5° 01.2′ N 118° 19.8′ E	**F.R.**	22 **7**	6	White wooden framework tower; 20.	
24664 *F 1991*	**Kalunaun.**	4° 55.3′ N 118° 16.0′ E	**Fl.W.** period 10s	126 **38**	**17**	Metal framework tower.	
24668 *F 1991.3*	Rashleigh Reef.	4° 44.2′ N 118° 17.4′ E	**Fl.G.** period 3s	22 **7**	5	Green tripod.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			MALAYSIA (SABAH)				
24672 *F 1991.32*	N. Greep Reef.	4° 43.1′ N 118° 15.9′ E	**Q.R.**	15 **5**	3	Red pile.	
24676 *F 1991.36*	SW. Greep Reef.	4° 42.3′ N 118° 15.3′ E	**Q.R.**	16 **5**	3	Red pile.	
24680 *F 1991.38*	Lloyd Reef.	4° 42.0′ N 118° 16.1′ E	**Q.G.**	17 **5**	3	Green column.	
24682 *F 1991.72*	Semprona, N. entrance.	4° 31.2′ N 118° 37.3′ E	**Fl.(2)W.** period 8s	16 **5**	5	ISOLATED DANGER BRB, beacon, topmark.	
24683 *F 1991.84*	Range, front.	4° 23.5′ N 118° 35.9′ E	**Fl.(2)W.** period 3s	16 **5**	5	White beacon, white square daymark.	
24683.5 *F 1991.85*	-Rear, 1650 meters 042°30′ from front.	4° 24.2′ N 118° 36.5′ E	**Fl.(2)W.** period 5s	16 **5**	5	White beacon, white square daymark.	
24684 *F 1991.6*	**Pulau Mataking.**	4° 34.6′ N 118° 56.9′ E	**Fl.W.** period 20s	90 **27**	**15**	White metal framework tower; 80.	**AIS** (MMSI No 005331910).
	RACON		**M(– –)**				(3cm).
24688 *F 1992*	**Pulau Si Amil.**	4° 18.9′ N 118° 52.5′ E	**Fl.(2)W.** period 15s	350 **107**	**15**	White metal framework tower, red bands; 36.	**AIS** (MMSI No 005331911).
24696 *F 1992.3*	Cust Reef.	4° 17.1′ N 118° 42.7′ E	**Fl.R.** period 3s	17 **5**	5	Red tripod.	
24700 *F 1992.14*	Pulau Ligitan.	4° 09.8′ N 118° 52.9′ E	**Fl.W.** period 5s	33 **10**	11	White metal framework tower, red bands.	**AIS** (MMSI No 005331901).
24704 *F 1992.2*	Pulau Sipadan.	4° 06.7′ N 118° 37.7′ E	**Fl.(3)W.** period 20s	80 **24**	14	White metal framework tower, red bands; 72.	Visible 214°-110°.
	RACON		**S(• • •)**				(3cm).
24708 *F 1992.7*	Horn Reef.	4° 15.9′ N 118° 25.4′ E	**Fl.R.** period 10s	12 **4**	8	Red tripod; 13.	
24716 *F 1993.5*	Hand Rock.	4° 08.4′ N 118° 10.6′ E	**Fl.R.** period 7s	49 **15**	10	PORT (A) R, pile, topmark.	**AIS** (MMSI No 005331915).
24728 *F 1994*	**Batu Tinagat.**	4° 13.6′ N 117° 58.9′ E	**Fl.W.** period 7s	482 **147**	**20**	White tower, red stripes; 98.	**AIS** (MMSI No 005331914).
	RACON		**T(–)**		**20**		(3cm).
24731 *F 1999.3*	**Sibatik Island.**	4° 09.8′ N 117° 53.7′ E	**Fl.(2)W.** period 12s fl. 1.5s, ec. 2s fl. 1.5s, ec. 7s	138 **42**	**20**	White tower; 131.	
24732 *F 1995.4*	Wicks Rock.	4° 15.1′ N 117° 52.3′ E	**Q.W.**	12 **4**	3	Black beacon.	
24736 *F 1997*	Adolphy Point.	4° 16.5′ N 117° 39.4′ E	**Fl.(3)Y.** period 5s	52 **16**	9	Metal framework tower, white triangular daymark point up.	Visible 254°-274°. In line 264° with unlit beacon.
24740 *F 1999*	Coal Mine Reach.	4° 13.8′ N 117° 38.1′ E	**Fl.W.** period 5s	65 **20**	5		Visible 212°30′- 232°30′.
			INDONESIA (BORNEO)				
24744 *F 1999.6*	Palau Nunukan Timur.	4° 03.7′ N 117° 45.1′ E	**Fl.R.** period 5s fl. 0.5s, ec. 4.5s	49 **15**	11	PORT (A) R, beacon, topmark; 39.	
24744.5 *F 1999.75*	Karang Unarang.	4° 00.6′ N 118° 04.9′ E	**Fl.W.** period 4s fl. 1s, ec. 3s	66 **20**	14	White metal framework tower; 49.	
24745 *F 1999.7*	Makasser Bank.	3° 59.6′ N 117° 56.5′ E	**Fl.G.** period 3s fl. 0.5s, ec. 2.5s	49 **15**	12	STARBOARD (A) G, beacon, topmark.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			INDONESIA (BORNEO)				
24745.5 *F 1999.73*	-Center.	3° 59.4′ N 117° 57.5′ E	**Fl.W.** period 5s fl. 1s, ec. 4s	59 **18**	12	White beacon; 49.	
24746 *F 1999.65*	Gosong Nunukan.	3° 57.9′ N 117° 51.0′ E	**Q.(3)W.** period 10s	46 **14**	12	E. CARDINAL BYB, beacon, topmark.	
24747 *F 1999.8*	Karang Banda.	3° 49.5′ N 118° 00.6′ E	**Fl.(2)W.** period 12s fl. 0.4s, ec. 1s fl. 0.4s, ec. 10.2s	59 **18**	11	ISOLATED DANGER BRB, beacon, topmark.	
24748	*Lighted Buoy.*	3° 24.7′ N 117° 56.5′ E	**L.Fl.W.** period 10s			Red and white stripes, red ball topmark.	
24749 *F 1999.9*	E. of Tg Ahus.	3° 46.1′ N 117° 56.5′ E	**Q.(3)W.** period 10s	49 **15**	10	E. CARDINAL BYB, beacon, topmark.	
24752 *F 2000*	Pulau Bunyu.	3° 33.4′ N 117° 54.6′ E	**Fl.W.** period 6s fl. 0.6s, ec. 5.4s	59 **18**	11	White beacon.	
24753 *F 2000.5*	**-Tanjung Arang.**	3° 26.9′ N 117° 52.4′ E	**Fl.W.** period 5s	154 **47**	**18**		
24754 *F 2001*	Tg. Tibi.	3° 28.1′ N 117° 40.2′ E	**Fl.W.** period 7s fl. 1s, ec. 6s	43 **13**	12	White beacon.	
24756 *F 2002*	Muasa Sebawang, Palau Tiga.	3° 37.1′ N 117° 25.9′ E	**Fl.W.** period 3s fl. 1s, ec. 2s			White beacon.	
	TARAKAN:						
24760	*-Lighted Buoy.*	3° 14.7′ N 117° 53.3′ E	**Iso.W.** period 2s			Red and white striped buoy.	**Radar reflector.**
24762 *F 2009*	-Tg. Batu.	3° 14.3′ N 117° 39.2′ E	**Fl.G.** period 5s fl. 1s, ec. 4s	43 **13**	12	Green beacon.	
24764 *F 2008*	-Lingkas approach Range, front.	3° 13.7′ N 117° 37.2′ E	**Q.(2)R.**	46 **14**	10	Red beacon.	
24768 *F 2008.1*	--Rear, about 914 meters 267° from front.	3° 13.7′ N 117° 36.8′ E	**Fl.W.** period 5s fl. 1s, ec. 4s	62 **19**	11	Black metal beacon, white triangular daymark point down; 49.	
24770 *F 2007*	-SW.	3° 10.0′ N 117° 31.2′ E	**Fl.R.** period 4s fl. 0.3s, ec. 3.7s	52 **16**	12	Red beacon.	
24771 *F 2010.2*	-Tg. Keris, SE.	3° 15.6′ N 117° 33.0′ E	**Fl.R.** period 6s fl. 0.3s, ec. 5.7s	49 **15**	12	PORT (A) R, beacon, topmark.	
24772 *F 2010*	-Tanjung Mengacu.	3° 14.5′ N 117° 37.5′ E	**Fl.G.** period 5s fl. 0.5s, ec. 4.5s	46 **14**	10	Green metal beacon; 26.	
24772.5 *F 2014.3*	Makapan.	2° 59.8′ N 117° 49.7′ E	**Fl.W.** period 6s fl. 1s, ec. 5s	46 **14**	10		**Radar reflector.**
24773 *F 2015.5*	Pulau Panjang.	2° 22.8′ N 118° 11.9′ E	**Fl.W.** period 5s	46 **14**	11	White beacon.	
24773.1 *F 2014.5*	Karang Baliktaba.	2° 34.8′ N 118° 00.6′ E	**Fl.W.** period 8s fl. 0.5s, ec. 7.5s	46 **14**	10	White metal framework structure; 33.	
24774 *F 2015*	**Tg Bolituwatan.**	2° 18.5′ N 118° 33.9′ E	**Fl.(2)W.** period 15s fl. 0.3s, ec. 3.7s fl. 0.3s, ec. 10.7s	180 **55**	**18**	White tower; 131.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			INDONESIA (BORNEO)				
24775 *F 2015.7*	Karang Derawan.	2° 15.8′ N 118° 14.1′ E	**Fl.W.** period 10s fl. 0.5s, ec. 9.5s	46 **14**	8	White metal framework structure; 33.	
24775.1 *F 2016.5*	Karang Tidung.	2° 09.5′ N 118° 10.8′ E	**Fl.(2)W.** period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	46 **14**	10	ISOLATED DANGER BRB, structure, topmark; 33.	
24775.5 *F 2019*	**Bakungan Island.**	2° 06.0′ N 118° 44.4′ E	**Fl.W.** period 10s fl. 1s, ec. 9s	108 **33**	**22**	White beacon; 98.	
24776 *F 2016*	Sangalakki.	2° 05.1′ N 118° 24.7′ E	**Fl.W.** period 3s fl. 0.5s, ec. 2.5s	49 **15**	11	White metal framework tower; 43.	**Radar reflector.**
24778 *F 2024.3*	Muara Pantai.	2° 01.8′ N 117° 51.7′ E	**Fl.G.** period 3s	43 **13**	8	Green beacon.	
24779 *F 2024.2*	-S.	1° 57.7′ N 117° 53.6′ E	**Fl.W.** period 7s fl. 1s, ec. 6s	43 **13**	12	White beacon.	
24780 *F 2018*	Karang Malalungan, N. point.	1° 55.6′ N 118° 27.1′ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	39 **12**	7	Red metal framework tower; 26.	
	RACON		**K(– • –)** period 40s		5		(3cm).
24782 *F 2020*	Karang Gonsungan.	1° 57.3′ N 118° 48.7′ E	**Fl.(3)W.** period 20s fl. 0.5s, ec. 3s fl. 0.5s, ec. 3s fl. 0.5s, ec. 12.5s	42 **13**	10	White beacon.	
24784 *F 2022*	**Karana Muaras, Pulau Sambit.**	1° 46.4′ N 119° 02.5′ E	**Fl.W.** period 5s fl. 0.3s, ec. 4.7s	141 **43**	**18**	White tower.	
24786 *F 2022.5*	Karang Besar.	1° 33.5′ N 118° 24.0′ E	**Fl.W.** period 9s fl. 0.9s, ec. 8.1s	42 **13**	10	White beacon.	
24787 *F 2022.3*	**Bilang Bilangan Island.**	1° 33.9′ N 118° 57.0′ E	**Fl.W.** period 5s fl. 0.7s, ec. 4.3s	43 **13**	**16**	White beacon; 33.	**Radar reflector.**
24788 *F 2024.5*	**Tanjung Mangkalihat.**	0° 59.5′ N 118° 59.0′ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	138 **42**	**18**	White metal framework tower; 108.	Visible 180°-023°. Partially obscured by trees 000°-023° at short distances. **Radiobeacon.**
	RACON		**T(–)** period 40s		8		Azimuth coverage 180°-000°. (3cm).
24790 *F 2024.6*	Birahbirahan.	0° 41.6′ N 118° 28.4′ E	**Fl.(2)W.** period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	46 **14**	11	ISOLATED DANGER BRB, beacon, topmark.	
24792 *F 2024.7*	Sangkulirang.	0° 46.3′ N 118° 04.3′ E	**Fl.R.** period 5s fl. 0.5s, ec. 4.5s	43 **13**	8	Red metal framework structure; 26.	**Radar reflector.**
24792.5 *F 2024.65*	**Pulau Miang Besar.**	0° 43.0′ N 118° 00.7′ E	**Fl.W.** period 6s fl. 1s, ec. 5s	167 **51**	**19**	White lighthouse.	
24793 *F 2024.73*	Karang Tg Bungalun.	0° 36.7′ N 117° 50.0′ E	**Fl.(2)W.** period 6s	42 **13**	12	ISOLATED DANGER BRB, beacon, topmark.	
24794 *F 2024.75*	**Sangatta.**	0° 32.9′ N 117° 37.2′ E	**Fl.W.** period 5s fl. 1.5s, ec. 3.5s	430 **131**	**16**	White structure.	**Radar reflector.**

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			INDONESIA (BORNEO)				
24794.1 *F 2024.81*	-Channel beacon.	0° 32.1′ N 117° 46.5′ E	**Q.W.**	23 **7**	7	N. CARDINAL BY, beacon, topmark.	Channel marked by lighted beacons. **Radar reflector.**
	-RACON		**K(– • –)**				(3 & 10cm).
24794.2 *F 2024.82*	--S.	0° 29.9′ N 117° 44.6′ E	**Q.(6)+L.Fl.W.** period 15s	23 **7**	4	S. CARDINAL YB, beacon, topmark.	**Radar reflector.**
24796 *F 2024.8*	Sengata Reef.	0° 19.6′ N 117° 42.5′ E	**Fl.(2)W.** period 8s	82 **25**	10		
	LITHOU HARBOR:						
24796.6 *F 2025*	-Entrance Range, front.	0° 08.9′ N 117° 32.0′ E	**Q.W.**	39 **12**	8	White beacon, red bands, triangular daymark point up.	
24796.7 *F 2025.1*	--Rear, 300 meters 284° from front.	0° 09.0′ N 117° 31.9′ E	**Iso.W.** period 4s	66 **20**	9	White beacon, triangular daymark point down.	
24797 *F 2025.4*	-Batutanbu Range, front.	0° 07.9′ N 117° 33.3′ E	**Q.W.**	39 **12**	8	White beacon, red bands, triangular daymark point up.	
24797.1 *F 2025.41*	--Rear, 320 meters 148° from front.	0° 07.7′ N 117° 33.3′ E	**Iso.W.** period 4s	66 **20**	9	White beacon, white triangular daymark point down.	
24797.4 *F 2025.6*	-Segaja Range, front.	0° 09.8′ N 117° 32.5′ E	**Q.W.**	39 **12**	8	White beacon, black bands, triangular daymark point up.	
24797.5 *F 2025.61*	--Rear, 320 meters 116° from front.	0° 09.7′ N 117° 32.7′ E	**Iso.W.** period 4s	66 **20**	9	White beacon, white triangular daymark point down.	
24797.8 *F 2025.7*	-Kiampam.	0° 10.5′ N 117° 31.5′ E	**Fl.G.** period 2s fl. 0.5s, ec. 1.5s	33 **10**	4	STARBOARD (A) G, beacon, topmark.	
24798 *F 2025.8*	-On reef.	0° 10.4′ N 117° 31.1′ E	**Fl.R.** period 3s fl. 0.5s, ec. 2.5s	33 **10**	4	PORT (A) R, beacon, topmark.	
24799 *F 2025.9*	Tg. Pokoayi.	0° 10.8′ N 117° 30.1′ E	**Mo.(U)W.** period 15s fl. 0.6s, ec. 0.6s fl. 0.6s, ec. 0.6s fl. 1.8s, ec. 10.8s	49 **15**	6	White framework beacon.	
	BONTANG HARBOR:						
24800 *F 2028*	-Entrance Range, front.	0° 03.8′ N 117° 32.8′ E	**Q.W.**	52 **16**	9	White beacon, red bands, triangular daymark point up; 52.	
24804 *F 2028.1*	--Rear, 600 meters 308° from front.	0° 04.0′ N 117° 32.5′ E	**Q.W.**	75 **23**	12	White beacon, triangular daymark point down; 75.	
24808 *F 2027*	**-Berasbasah.**	0° 03.8′ N 117° 33.6′ E	**Fl.(3+2)W.** period 20.5s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 5.5s fl. 1s, ec. 1.5s fl. 1s, ec. 5.5s	118 **36**	**22**		
24810 *F 2028.2*	-Range, front.	0° 02.4′ N 117° 32.3′ E	**Q.W.**	23 **7**	12	White beacon, white triangular daymark point up.	
24810.1 *F 2028.21*	--Rear, about 1540 meters 297° from front.	0° 02.8′ N 117° 31.5′ E	**Iso.W.** period 4s	59 **18**	**16**	White beacon, white triangular daymark point up.	
24812 *F 2028.3*	-Second Range, front.	0° 04.9′ N 117° 32.5′ E	**Q.W.**	52 **16**	9	White beacon, black bands, triangular daymark point up; 52.	
24816 *F 2028.31*	--Rear, 650 meters 337° from front.	0° 05.2′ N 117° 32.4′ E	**Q.W.**	75 **23**	12	White beacon, triangular daymark point down; 75.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			INDONESIA (BORNEO)				
24817 *F 2029*	-Range, common front 3A.	0° 06.0′ N 117° 30.6′ E	**Q.W.**	52 **16**	9	White beacon, black bands, triangular daymark point up; 52.	
24817.2 *F 2029.1*	--Rear, 300 meters 045° from common front.	0° 06.1′ N 117° 30.8′ E	**Iso.W.** period 6s	75 **23**	12	Beacon, white triangular daymark point down.	
24817.4 *F 2028.9*	--Rear 3B, 600 meters 307° from common front.	0° 06.2′ N 117° 30.4′ E	**Q.W.**	75 **23**	12	White beacon, triangular daymark point down; 75.	
24818 *F 2029.4*	-Range, front 4A.	0° 05.6′ N 117° 28.6′ E	**Q.W.**	75 **23**	9	White beacon, red bands, triangular daymark point up; 52.	
24818.1 *F 2029.41*	--Rear 0D, 600 meters 269° from front.	0° 05.6′ N 117° 28.4′ E	**Q.W.**	98 **30**	12	White beacon, triangular daymark point down; 82.	
24818.3 *F 2030.2*	-MD 1.	0° 05.4′ N 117° 29.5′ E	**Fl.Y.** period 4s fl. 0.5s, ec. 3.5s	30 **9**	4	Dolphin, yellow "X" topmark.	
24818.4 *F 2030*	-MD 7.	0° 05.4′ N 117° 29.3′ E	**Fl.Y.** period 3s fl. 0.5s, ec. 2.5s	30 **9**	4	Dolphin, yellow "X" topmark.	
24818.5 *F 2029.7*	-No 26.	0° 05.6′ N 117° 29.0′ E	**Fl.R.** period 2s			PORT (A) R, beacon, topmark.	
24818.7 *F 2029.8*	-No 28.	0° 05.6′ N 117° 28.9′ E	**Fl.R.** period 2s			Red beacon, red triangular daymark point up.	
24819 *F 2031*	-Range 1G, front.	0° 04.6′ N 117° 29.0′ E	**Q.W.**	52 **16**	9	Beacon, white triangular daymark point up.	**Radar reflector.**
24819.1 *F 2031.1*	--Rear 0G, 300 meters 229°45′ from front.	0° 04.5′ N 117° 28.9′ E	**Iso.W.** period 6s	52 **16**	12	Beacon, white triangular daymark point down.	W. harbor entrance marked by lighted beacons. **Radar reflector.**
	SUNGAI MAHAKAM:						
24828 *K 1462.39*	-Range, front 2.	0° 57.7′ S 117° 18.5′ E	**Q.W.**	29 **9**	10	White beacon, white triangular daymark point up; 33.	**Radar reflector.**
24832 *K 1462.41*	-Range, front 2A.	0° 56.4′ S 117° 18.2′ E	**Q.W.**	33 **10**	10	White beacon, red bands, white triangular daymark point up.	**Radar reflector.**
24836 *K 1462.4*	-Common rear, 700 meters 316° from 2, 2,900 meters 181°35′ from 2A.	0° 57.4′ S 117° 18.2′ E	**Iso.W.** period 2s	49 **15**	12	White beacon, white triangular daymark point down.	**Radar reflector.**
24840 *K 1462.2*	-Range, front, 1.	0° 58.2′ S 117° 19.0′ E	**Q.W.**	33 **10**	10	White beacon, white triangular daymark point up; 33.	
24844 *K 1462.21*	--Rear, 1,500 meters 170° from front.	0° 59.2′ S 117° 19.1′ E	**Iso.W.** period 4s	52 **16**	12	White beacon, white triangular daymark point down; 33.	
	--RACON		**M(– –)** period 30s		5		(3cm).
24844.5 *K 1460.6*	-Pegah Estuary.	1° 01.1′ S 117° 21.4′ E	**Mo.(U)Y.** period 15s fl. 0.4s, ec. 0.4s fl. 0.4s, ec. 0.4s fl. 1.4s, ec. 11.9s	59 **18**	12	Yellow beacon, platform.	
	-RACON		**Q(– – • –)**				
24845 *K 1460.7*	-Pecko.	1° 06.5′ S 117° 22.5′ E	**Fl.(2)W.** period 15s fl. 1s, ec. 1s fl. 1s, ec. 12s	39 **12**	12	White beacon; 13.	
24846 *K 1462*	**-Bukuan Island.**	0° 51.7′ S 117° 17.8′ E	**Fl.(2)W.** period 15s	135 **41**	**20**	White metal framework structure.	
24847 *K 1459.94*	Sepinggang entrance.	0° 59.1′ S 117° 09.8′ E	**Q.R.**	33 **10**	12	Red beacon, red rectangular daymark; 23.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			INDONESIA (BORNEO)				
24848 *K 1459.95*	-Entrance, SW.	0° 59.1′ S 117° 09.8′ E	**Fl.G.** period 2s fl. 0.5s, ec. 1.5s	33 **10**	12	STARBOARD (A) G, beacon, topmark; 23.	
24852 *K 1462.6*	-Range, front.	0° 47.3′ S 117° 16.9′ E	**Q.W.**	23 **7**	8	White beacon, white triangular daymark point down.	
24856 *K 1462.61*	--Rear, 240 meters 320° from front.	0° 47.3′ S 117° 16.9′ E	**Iso.W.** period 2s	39 **12**	10	White beacon, white triangular daymark point down.	
24858 *K 1468.05*	-Tg Bayor.	0° 42.2′ S 117° 40.2′ E	**Fl.(4)W.** period 20s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 13.5s	46 **14**	12	White beacon.	
24859 *K 1468.25*	Kayumojara.	0° 41.3′ S 117° 33.0′ E	**Fl.(3)W.** period 15s fl. 0.4s, ec. 1s fl. 0.4s, ec. 1s fl. 0.4s, ec. 11.8s	62 **19**	10	White beacon.	
24860 *K 1462.8*	Muara Jawa Range, No 4, front.	0° 39.4′ S 117° 18.3′ E	**Iso.W.** period 2s	23 **7**	8	White beacon, white triangular daymark point up.	
24864 *K 1462.81*	-Rear 300 meters 001°30′ from front.	0° 39.3′ S 117° 18.3′ E	**Iso.W.** period 4s	39 **12**	10	White beacon, white triangular daymark point down.	
24868 *K 1464*	Tg. Muaraberan Range, front.	0° 35.9′ S 117° 17.6′ E	**Q.W.**	30 **9**	12	White metal structure, white triangular daymark point up.	
24872 *K 1464.1*	-Rear, 300 meters 356° from front.	0° 35.7′ S 117° 17.6′ E	**Iso.W.** period 4s	46 **14**	12	White metal structure, white triangular daymark point down.	
24876 *K 1463*	Sungaimariam Range, front.	0° 35.0′ S 117° 16.0′ E	**Q.W.**	23 **7**	8	Beacon, white triangular daymark point up.	
24880 *K 1463.1*	-Rear, 650 meters 324°30′ from front.	0° 34.3′ S 117° 16.3′ E	**Iso.W.** period 2s	39 **12**	12	Beacon, white triangular daymark point down.	
24881 *K 1468.46*	Tg Tamarong.	0° 25.3′ S 117° 39.1′ E	**L.Fl.W.** period 10s fl. 2s, ec. 8s	108 **33**	12	White tower; 98.	
24882 *K 1468.5*	Muara Berau.	0° 20.2′ S 117° 29.9′ E	**L.Fl.W.** period 10s fl. 2s, ec. 8s	46 **14**	11	White beacon.	
	TELUK BALIKPAPAN:						
24884	*-Outer Light Buoy.*	1° 21.5′ S 116° 56.7′ E	**Fl.W.** period 10s			SAFE WATER RW, pillar, topmark.	**Radar reflector.**
24888 *K 1459.2*	-Range No 1, front.	1° 18.8′ S 116° 53.0′ E	**Q.W.**	16 **5**	7	White beacon, white triangular daymark point up; 7.	
24892 *K 1459.21*	--Rear, No 2, 1445 meters 306°14′ from front.	1° 18.3′ S 116° 52.3′ E	**Iso.W.** period 5s	49 **15**	11	White beacon, white triangular daymark point down; 49.	
24896 *K 1459.42*	-Range, front, 012°30′ from common rear.	1° 19.1′ S 116° 47.5′ E	**Q.W.**	52 **16**	8	Beacon, white triangular daymark point up; 49.	
24900 *K 1459.4*	-Range No 3, front.	1° 19.6′ S 116° 49.0′ E	**Q.W.**	26 **8**	9	White beacon, white triangular daymark point up.	
24904 *K 1459.41*	--Common rear, No 4, 1.61 miles 270° from No 3.	1° 19.7′ S 116° 47.4′ E	**Iso.W.** period 2s	82 **25**	11	White beacon, white triangular daymark point down.	
24908 *K 1459.6*	-Range No 5, front.	1° 20.5′ S 116° 50.5′ E	**Q.W.**	21 **6**	8	White beacon, white triangular daymark point up.	
24912 *K 1459.61*	--Rear, No 6, 1000 meters 140° from front.	1° 21.0′ S 116° 50.8′ E	**Iso.W.** period 4s	59 **18**	11	White beacon, white triangular daymark point down.	
24916	-Free standing drill column (pipe).	1° 20.9′ S 116° 48.3′ E	**Q.W.**	49 **15**	6		Q.W. 14m 6M close S, on pipe.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			INDONESIA (BORNEO)				
24918 *K 1459.8*	**Tanjung Manggar.**	1° 12.8′ S 116° 58.6′ E	**Fl.(3)W.** period 21s	141 **43**	**18**	White metal framework structure; 131.	
24920 *K 1459*	**-Tanjung Tokong.**	1° 16.4′ S 116° 48.5′ E	**L.Fl.W.** period 20s fl. 5s, ec. 15s	306 **93**	**25**	White dwelling; 26.	Visible 195°30′-040°. Reserve light 2 F.W. 10M. F.R. shown during firing practice.
24922 *K 1459.76*	-Tanjung Jenebora.	1° 12.0′ S 116° 46.4′ E	**Fl.R.** period 4s fl. 0.6s, ec. 3.4s	52 **16**	12	PORT (A) R, beacon, topmark.	
24923 *K 1459.73*	-Tanjung Makasar.	1° 13.0′ S 116° 47.1′ E	**Fl.G.** period 5s fl. 1s, ec. 4s	49 **15**	11	STARBOARD (A) G, beacon, topmark.	
24923.7 *K 1458*	Tg. Maruat.	1° 37.4′ S 116° 34.6′ E	**Fl.W.** period 10s fl. 1s, ec. 9s	52 **16**	12	White beacon.	
24924 *K 1456*	Teluk Adang.	1° 44.9′ S 116° 28.3′ E	**Fl.W.** period 4s fl. 0.5s, ec. 3.5s	49 **15**	8	White beacon; 49.	
24926 *K 1457.5*	Karang Karangan.	1° 54.4′ S 116° 33.6′ E	**Fl.(3)W.** period 15s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 10.5s	49 **15**	12	E. CARDINAL BYB, beacon, topmark.	**Radar reflector.**
24928 *K 1455*	Teluk Apar.	2° 02.7′ S 116° 33.0′ E	**Fl.W.** period 4s fl. 0.5s, ec. 3.5s	49 **15**	12	Red metal framework tower; 39.	**Radar reflector.**
24929 *K 1457*	-Tanjung Giling.	2° 03.2′ S 116° 28.6′ E	**Fl.G.** period 7.5s fl. 0.8s, ec. 6.7s	52 **16**	12	Green beacon.	Fl.R. and Fl.G. lights marks channel upstream.
24932 *K 1454*	Aru Bank.	2° 15.5′ S 116° 40.2′ E	**Q.(3)W.** period 10s	42 **13**	12	E. CARDINAL BYB, beacon, topmark.	**Radar reflector.**
24936 *K 1452*	Karang Suling.	2° 22.3′ S 116° 43.6′ E	**Fl.(2)W.** period 4s fl. 0.5s, ec. 1s fl. 0.5s, ec. 2s	42 **13**	12	ISOLATED DANGER BRB, beacon, topmark; 30.	**Radar reflector.**
24938 *K 1449*	Karang Unarang.	2° 29.4′ S 117° 03.0′ E	**Fl.(2)W.** period 10s fl. 0.5s, ec. 1s fl. 0.5s, ec. 8s	49 **15**	12	ISOLATED DANGER BRB, beacon, topmark.	
24939 *K 1450*	-Reef 17.3 miles N.	2° 11.9′ S 117° 00.7′ E	**Q.(9)W.** period 15s	49 **15**	12	W. CARDINAL YBY, beacon, topmark.	
24940 *K 1447*	Karang Grogot.	2° 43.8′ S 116° 45.6′ E	**Fl.W.** period 8s fl. 0.5s, ec. 7.5s	49 **15**	12	White beacon; 49.	
24941 *K 1446.5*	Karang Demung.	2° 50.1′ S 117° 04.0′ E	**Fl.(2)W.** period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	46 **14**	11	ISOLATED DANGER BRB, beacon, topmark.	**Radar reflector.**
24942 *K 1487*	Pulau Seturian.	2° 16.6′ S 117° 39.7′ E	**Q.W.**	43 **13**	12	N. CARDINAL BY, beacon, topmark.	
24944 *K 1488.5*	**Palau Balabalagan Islands.**	2° 32.4′ S 117° 56.6′ E	**Fl.(3)W.** period 20s fl. 0.5s, ec. 4.5s fl. 0.5s, ec. 4.5s fl. 0.5s, ec. 9.5s	131 **40**	**17**	White metal framework tower; 141.	
24946 *K 1486.4*	**Pulau Ambungi.**	2° 04.6′ S 117° 15.9′ E	**Q.W.**	108 **33**	**15**	N. CARDINAL BY, beacon, topmark.	
24946.5 *K 1446*	Gosong Takatalu.	3° 04.5′ S 117° 42.4′ E	**Fl.W.** period 6s fl. 0.5s, ec. 5.5s	39 **12**	12	White beacon.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			INDONESIA (BORNEO)				
24947 *K 1445*	Pulau Larilarian.	3° 30.6′ S 117° 27.4′ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	105 **32**	12	White metal framework tower; 98.	
24948 *K 1444*	Kepulauan Sambergelap, on W. island.	3° 39.4′ S 116° 36.3′ E	**Fl.(3)W.** period 15s fl. 1s, ec. 2s fl. 1s, ec. 2s fl. 1s, ec. 8s	69 **21**	12	White metal framework tower; 46.	Obscured by Balang Balangka 261°-266°, and by Sambergelap Island 286°-306°.
24948.5 *K 1427.8*	Sungai Cuka.	3° 52.3′ S 115° 21.7′ E	**Fl.W.** period 6s fl. 0.5s, ec. 5.5s	49 **15**	10	White beacon.	
24949 *K 1444.5*	Tanjung Mangkok.	3° 22.2′ S 116° 25.4′ E	**Fl.(3)W.** period 14s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 9.5s	49 **15**	12	White beacon.	
24950 *K 1439*	Tg. Batu Gemuk.	2° 58.0′ S 116° 12.1′ E	**Fl.G.** period 3s fl. 0.5s, ec. 2.5s	23 **7**	4	STARBOARD (A) G, beacon, topmark.	
24950.5 *K 1439.4*	-Range, front.	2° 56.6′ S 116° 12.4′ E	**Fl.W.** period 2s fl. 0.5s, ec. 1.5s	16 **5**	4	White beacon.	
24950.6 *K 1439.6*	--Rear.	2° 56.5′ S 116° 12.4′ E	**Fl.W.** period 10s fl. 0.5s, ec. 9.5s	19 **6**	4	White beacon.	Lights exist further up river.
24951 *K 1438.3*	Selat Laut Beacon.	3° 12.5′ S 116° 17.6′ E	**Fl.W.** period 3s fl. 1s, ec. 2s	39 **12**	5	White beacon.	
24952 *K 1438*	-Tg. Pemancingan Range, front.	3° 13.1′ S 116° 16.8′ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	46 **14**	12	White structure, white triangular daymark point up; 39.	
24956 *K 1438.1*	**-Balingkar Hill,** rear, 2.8 miles 257° from front.	3° 13.8′ S 116° 14.1′ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	219 **67**	**15**	White metal framework tower, upper part red; 66.	
24957 *K 1438.22*	-Tg Sarantiung.	3° 13.4′ S 116° 17.1′ E	**Fl.W.**			Post, green triangular daymark point up.	
24957.5 *K 1438.2*	--S.	3° 13.6′ S 116° 17.0′ E	**Fl.W.**			Post, green triangular daymark point up.	
24960 *K 1436*	-Kotabaru, mole, head.	3° 14.1′ S 116° 13.9′ E	**F.R.**	39 **12**	3	Wooden mast; 33.	
24961 *K 1435.7*	-Gosong Payung N.	3° 18.2′ S 116° 06.3′ E	**Q.G.**	23 **7**	5	STARBOARD (A) G, pile, topmark.	
24961.2 *K 1435.5*	-Gosong Payung S.	3° 20.8′ S 116° 05.6′ E	**Fl.G.** period 3s fl. 0.5s, ec. 2.5s	23 **7**	5	STARBOARD (A) G, pile, topmark.	
24962 *K 1435.6*	-S. Songap.	3° 20.9′ S 116° 06.1′ E	**Fl.R.** period 2s fl. 0.5s, ec. 1.5s	23 **7**	5	PORT (A) R, pile, topmark.	
24963 *K 1435.4*	-Beacon.	3° 25.0′ S 116° 03.4′ E	**Fl.R.** period 4s fl. 0.5s, ec. 3.5s	23 **7**	5	PORT (A) R, beacon, topmark.	
24963.2 *K 1435.3*	-Suwangi E.	3° 26.4′ S 116° 02.5′ E	**Q.(3)W.** period 5s	23 **7**	5	E. CARDINAL BYB, pile, topmark.	
24963.4 *K 1435.2*	-Beacon.	3° 27.4′ S 116° 02.4′ E	**Fl.R.** period 2s fl. 0.5s, ec. 1.5s	23 **7**	5	PORT (A) R, pile, topmark.	
24963.5 *K 1433*	-Gosong Kramat.	3° 30.9′ S 116° 01.1′ E	**Q.(3)W.** period 10s	43 **13**	12	E. CARDINAL BYB, beacon, topmark.	

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			INDONESIA (BORNEO)				
24964 *K 1432*	-Tanjong Petang, W. side of S. entrance to strait.	3° 36.5′ S 115° 58.0′ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	62 **19**	13	White metal framework tower; 62.	Partially obscured 219°-223°.
24966 *K 1431*	-Tg Pangebalan.	4° 01.2′ S 116° 01.9′ E	**Fl.W.** period 6s	59 **18**	12	White beacon.	
24968 *K 1430*	**Pulau Kunit.**	4° 05.1′ S 116° 02.9′ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	443 **135**	**18**	White metal framework tower; 43.	Visible 237°-177°.
24969 *K 1442.2*	Tanjung Seloka.	3° 55.0′ S 116° 18.2′ E	**Fl.W.** period 6s	36 **11**	12	White beacon.	
24970 *K 1442.1*	Pulau Birabirahan.	4° 13.6′ S 116° 07.6′ E	**Fl.W.** period 6s fl. 0.5s, ec. 5.5s	39 **12**	12	White beacon.	
24972 *K 1434*	-Suwangi, S. end.	3° 27.1′ S 116° 01.4′ E	**Fl.W.** period 3.5s fl. 0.5s, ec. 3s	92 **28**	13	White beacon.	
24973 *K 1435*	-Batulicin.	3° 27.0′ S 116° 00.5′ E	**Fl.W.** period 6s fl. 0.5s, ec. 5.5s	72 **22**	12	White metal framework tower; 66.	
24974 *K 1427.4*	**Pulau Payongpayongan.**	4° 22.8′ S 115° 50.3′ E	**Fl.W.** period 6s fl. 0.5s, ec. 5.5s	105 **32**	**15**	White metal framework tower; 33.	
24976 *K 1442*	**Sambargalang (Brothers) Islands.**	4° 24.2′ S 116° 10.4′ E	**Fl.W.** period 5s fl. 1s, ec. 4s	180 **55**	**24**	White metal framework tower; 98.	Obscured 209°-219° from 2-12M.
24978 *K 1426.5*	Pulau Kelambu.	4° 56.3′ S 115° 38.6′ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	49 **15**	12	White beacon.	**Radar reflector.**
24980 *K 1442.5*	**Sabaru.**	5° 06.1′ S 117° 04.0′ E	**Fl.(3)W.** period 16s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 10.5s	138 **42**	**18**	White metal framework tower; 131.	
24982 *K 1442.7*	**Kalu Kalukuang.**	5° 10.4′ S 117° 39.4′ E	**Fl.(4)W.** period 30s	144 **44**	**19**	White metal framework tower; 131.	
24986 *K 1443.5*	**Doang Doangan Besar.**	5° 24.5′ S 117° 56.9′ E	**Fl.(3)W.** period 20s fl. 0.5s, ec. 2.5s fl. 0.5s, ec. 2.5s fl. 0.5s, ec. 13.5s	134 **41**	**18**	White metal framework tower.	
24987 *K 1428*	Satui Muara.	3° 49.0′ S 115° 28.1′ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	59 **18**	12	White beacon; 49.	
24987.3 *K 1444.3*	Pulau Sebuku, S. coast.	3° 39.0′ S 116° 22.1′ E	**Fl.W.** period 3s fl. 0.5s, ec. 2.5s	59 **18**	8	White beacon.	
24987.5 *K 1444.2*	Pulau Aur.	3° 40.1′ S 116° 22.8′ E	**Fl.W.** period 4s fl. 1s, ec. 3s	89 **27**	12	White beacon.	**Radar reflector.**
24987.75 *K 1422.08*	Mitratama Perkasa Asamasam.	3° 58.1′ S 115° 08.6′ E	**Fl.W.** period 10s fl. 1s, ec. 9s	33 **10**	12	White beacon; 26.	
24987.8 *K 1422.1*	Sg. Rakin, E.	3° 57.1′ S 115° 10.0′ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	46 **14**	10	White framework tower; 39.	
24987.9 *K 1422.2*	Pt. Mandiri.	3° 56.4′ S 115° 11.7′ E	**Fl.W.** period 2.5s fl. 0.5s, ec. 2s	39 **12**	6	White post; 39.	
24987.95 *K 1422.3*	IMCM.	3° 56.1′ S 115° 12.4′ E	**Fl.W.** period 4s fl. 0.5s, ec. 3.5s	59 **18**	6	White framework tower; 39.	

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			INDONESIA (BORNEO)				
24988 *K 1422*	**Tanjung Selatan.**	4° 10.6′ S 114° 39.0′ E	**L.Fl.W.** period 6s fl. 2s, ec. 4s	111 **34**	**17**	White metal framework tower; 105.	Visible 274°-106°.
24989 *K 1420*	Tekisung.	3° 53.3′ S 114° 35.9′ E	**Fl.Y.** period 3s fl. 0.5s, ec. 2.5s	59 **18**	14	SPECIAL Y, beacon, "X" topmark; 49.	**Radar reflector.**
	SUNGAI BARITO:						
24992	*-Outer Lighted Buoy.*	3° 39.7′ S 114° 25.7′ E	**L.Fl.W.** period 10s			SAFE WATER RW, pillar.	
24998 *K 1413.45*	-Wreck MV Barito 1.	3° 36.8′ S 114° 27.2′ E	**Fl.G.** period 3s fl. 0.5s, ec. 2.5s	23 **7**	8	STARBOARD (A) G, beacon, topmark.	
25000 *K 1413.7*	-Range, front.	3° 31.7′ S 114° 29.9′ E	**Iso.W.** period 2s	82 **25**	**16**	White beacon, black bands, white triangular daymark point up.	Visible 300°-120°.
25004 *K 1413.71*	--Rear, 1700 meters 028°30′ from front.	3° 30.7′ S 114° 30.4′ E	**Iso.W.** period 4s	131 **40**	**18**	White beacon, black bands, white triangular daymark point down.	Visible 300°-120°.
25012 *K 1416*	Tanjung Telan.	3° 26.6′ S 114° 30.1′ E	**Fl.R.** period 5s fl. 0.5s, ec. 4.5s	23 **7**	8	PORT (A) R, beacon, topmark; 20.	
25014 *K 1417*	-Pulau Kaget.	3° 26.4′ S 114° 30.4′ E	**Fl.G.** period 7s fl. 0.5s, ec. 6.5s	30 **9**	6	STARBOARD (A) G, beacon, topmark.	
25016 *K 1418*	-Sungai Jinga, W. side of river.	3° 23.7′ S 114° 29.6′ E	**Fl.R.** period 4s fl. 0.5s, ec. 3.5s	23 **7**	8	PORT (A) R, beacon, topmark.	
25018 *K 1419*	-Pulau Kembang.	3° 19.2′ S 114° 33.7′ E	**Fl.W.** period 3.5s fl. 1s, ec. 2.5s	49 **15**	6	White beacon.	
25026 *K 1412.5*	-Range, front.	3° 21.5′ S 114° 03.7′ E	**Fl.W.** period 1.5s fl. 0.5s, ec. 1s	33 **10**	8	White beacon, white triangular daymark point up.	
25026.1 *K 1412.51*	--Rear, 370 meters 359° from front.	3° 21.2′ S 114° 04.2′ E	**L.Fl.W.** period 5s fl. 2s, ec. 3s	59 **18**	10	White beacon, white triangular daymark point down.	
25028.5 *K 1411.72*	Gosong Schunyer.	3° 19.4′ S 113° 20.3′ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	43 **13**	12	White beacon; 30.	
25029 *K 1411.75*	Malatayur.	3° 48.0′ S 113° 38.6′ E	**Fl.(2)W.** period 10s fl. 0.5s, ec. 1s fl. 0.5s, ec. 8s	43 **13**	12	White beacon.	
25030 *K 1411.8*	Tanjung Serambut Range, front.	2° 59.4′ S 113° 03.2′ E	**Iso.W.** period 2s	49 **15**	6	Beacon.	
25030.1 *K 1411.85*	-Rear.	2° 59.2′ S 113° 03.2′ E	**Fl.W.** period 4s fl. 1s, ec. 3s	52 **16**	6	White beacon; 43.	
25032 *K 1411.6*	Tanjung Bandaran.	3° 07.5′ S 113° 03.7′ E	**Fl.W.** period 4s fl. 0.5s, ec. 3.5s	49 **15**	8	White metal framework tower; 49.	**Radar reflector.**
25036 *K 1411.4*	Tanjung Siamok.	3° 26.8′ S 112° 34.3′ E	**Q.(2)W.** period 5s	66 **20**	9	White metal framework tower; 49.	
25040 *K 1411.2*	**Tanjung Puting.**	3° 30.6′ S 111° 46.8′ E	**Fl.(3)W.** period 14s fl. 1s, ec. 2s fl. 1s, ec. 2s fl. 1s, ec. 7s	103 **31**	**17**	White metal framework tower; 98.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			INDONESIA (BORNEO)				
25042 *K 1411.22*	Sangora Banks.	3° 14.0′ S 111° 39.2′ E	**Fl.G.** period 5s fl. 0.5s, ec. 4.5s	33 **10**	11	Green beacon.	
25042.5 *K 1411.23*	Gosong Beras Besah, S.	3° 06.6′ S 111° 32.6′ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	26 **8**	3	Wooden post; 20.	
25043 *K 1411.24*	-N.	3° 05.6′ S 111° 32.8′ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	42 **13**	12	White beacon.	
25044 *K 1411*	Tg. Putri.	2° 55.4′ S 111° 23.5′ E	**Fl.R.** period 5s fl. 0.5s, ec. 4.5s	43 **13**	12	Red beacon.	**Radar reflector.**
25046 *K 1411.25*	Tg. Kluang.	2° 54.3′ S 111° 42.4′ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	39 **12**	10	White beacon.	
25047 *K 1411.3*	-Tg. Pangerangan Range, front.	2° 50.1′ S 111° 43.9′ E	**Iso.W.** period 2s	29 **9**	10		
25047.1 *K 1411.31*	--Rear, 897 meters 031°06′ from front.	2° 49.7′ S 111° 44.2′ E	**Iso.W.** period 4s	52 **16**	12	White beacon, white triangular daymark point down.	
25048 *K 1036*	Fox Banks.	3° 30.6′ S 110° 10.9′ E	**Fl.(4)W.** period 20s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 13.5s	46 **14**	12	White metal framework structure; 33.	
25049 *K 1410.3*	Gosong Mangkut.	3° 06.6′ S 110° 14.9′ E	**Fl.(2)W.** period 5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 2.5s	49 **15**	12	White metal framework tower; 33.	
25050 *K 1410*	**Pulau Bawal, Tanjung Rotan.**	2° 44.7′ S 110° 02.7′ E	**Fl.(3)W.** period 12s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 7.5s	220 **67**	**18**	White metal framework structure; 98.	
25051 *K 1033.8*	Karang Batuan.	3° 16.2′ S 108° 58.3′ E	**Fl.(2)W.** period 10s fl. 0.8s, ec. 1.2s fl. 0.8s, ec. 7.2s	43 **13**	12	ISOLATED DANGER BRB, beacon, topmark.	
25052 *K 1034*	Gosong Mampango (Discovery East Bank).	3° 34.7′ S 109° 10.7′ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	43 **13**	12	Red and white framework structure; 66.	**Radar reflector.**
25053 *K 1033.6*	Gosong Abadi.	3° 38.9′ S 108° 44.9′ E	**Fl.(2)W.** period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 7.5s	43 **13**	12	ISOLATED DANGER BRB, beacon, topmark; 33.	
25054 *K 1033.5*	Karang Satatan.	3° 21.9′ S 108° 37.0′ E	**Fl.W.** period 3s fl. 0.6s, ec. 2.4s	36 **11**	11	White fiberglass tower; 33.	**Radar reflector.**
25055 *K 1031*	Karang Florence Adelaide.	2° 04.1′ S 108° 04.6′ E	**Fl.(2)W.** period 8s fl. 1s, ec. 1s fl. 1s, ec. 5s	43 **13**	12	White beacon.	
25056 *K 1033*	**Pulau Pesemut.**	2° 29.7′ S 108° 50.8′ E	**L.Fl.W.** period 5s fl. 2s, ec. 3s	141 **43**	**17**	White metal framework structure; 131.	
25058 *K 1405.5*	Karang Ontario.	1° 59.8′ S 108° 38.9′ E	**Fl.(2)W.** period 5s	49 **15**	12	ISOLATED DANGER BRB, column, topmark; 33.	**Radar reflector.**
25060 *K 1406*	**Palau Serutu.**	1° 43.1′ S 108° 41.7′ E	**Q.(3)W.** period 10s	574 **175**	**36**	White metal framework tower; 82.	
	RACON		**T(–)** period 30s		8		Azimuth coverage 292°-160°. (3cm).

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			INDONESIA (BORNEO)				
25064 *K 1407*	**Lemen Boedi.**	1° 16.4′ S 108° 52.3′ E	**Fl.(2)W.** period 8s fl. 0.5s, ec. 2.5s fl. 0.5s, ec. 4.5s	157 **48**	**15**	White metal framework tower; 49.	**Radar reflector.**
25064.1 *K 1407.5*	**Pulau Layah Kecil.**	1° 31.5′ S 109° 20.2′ E	**Fl.(2)W.** period 15s	235 **72**	**22**	White metal framework structure; 131.	
25064.2 *K 1407.2*	Pulau Suka.	1° 20.8′ S 109° 07.0′ E	**Fl.(2)W.** period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	49 **15**	12	White fiberglass tower; 33.	
25064.3 *K 1407.3*	Pulau Buan.	1° 28.4′ S 109° 02.8′ E	**Fl.(2)W.** period 8s fl. 0.4s, ec. 1s fl. 0.4s, ec. 6.2s	49 **15**	13	White fiberglass beacon; 33.	**Radar reflector.**
25064.4 *K 1407.7*	**Pulau Macan.**	1° 39.2′ S 109° 20.6′ E	**Fl.(2)W.** period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	164 **50**	**19**	White fiberglass beacon; 33.	**Radar reflector.**
	KETAPANG:						
25065 *K 1408*	-Front.	1° 45.9′ S 109° 56.5′ E	**Iso.W.** period 2s	20 **6**	7	Black beacon, white bands, white triangular daymark point up; 20.	
25066 *K 1408.1*	--Rear, 126 meters 116°30′ from front.	1° 46.0′ S 109° 56.7′ E	**Oc.W.** period 4s lt. 3s, ec. 1s	26 **8**	7	Black beacon, white bands, white triangular daymark point down; 26.	
25066.2 *K 1409*	-Range, front.	1° 45.3′ S 109° 56.0′ E	**Fl.W.** period 1.5s fl. 0.5s, ec. 1s	20 **6**	5	White metal framework structure, white triangular daymark point up; 20.	Visible 229°-049°.
25066.4 *K 1409.1*	--Rear, 227 meters 325°30′ from front.	1° 45.5′ S 109° 56.1′ E	**Iso.W.** period 4s	26 **8**	5	White metal framework structure, white triangular daymark point down; 26.	Visible 224°-044°.
25067 *K 1408.3*	-Harbor.	1° 47.6′ S 109° 57.5′ E	**Iso.W.G.** period 2s	49 **15**	7		W. 145°-150°, G.-299°.
25068 *K 1402*	Tanjong Padang Tikar.	0° 39.4′ S 109° 14.7′ E	**Fl.W.** period 3s fl. 0.5s, ec. 2.5s	49 **15**	12	White framework tower, black bands; 49.	
25068.5 *K 1402.5*	Telok Air.	0° 40.4′ S 109° 21.7′ E	**L.Fl.W.** period 8s fl. 2s, ec. 6s	49 **15**	12	White wooden framework structure; 20.	
25068.7 *K 1400*	Tanjung Putus.	0° 16.6′ S 109° 04.5′ E	**Fl.(3)W.** period 15s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 10.5s	49 **15**	12	White beacon; 39.	
25069 *F 1872.6*	-Sungei Siak.	0° 00.1′ S 109° 17.6′ E	**Q.G.**	49 **15**	10	White metal framework tower; 26.	
25072 *F 1872*	-River mouth, front.	0° 04.2′ N 109° 09.9′ E	**Q.W.**	52 **16**	10	White beacon, black bands, white triangular daymark point up; 49.	
			Fl.R. period 2s fl. 0.5s, ec. 1.5s		4		
	-RACON		**K(– • –)**		10		
25076 *F 1872.1*	--Rear, 1720 meters 103°30′ from front.	0° 04.0′ N 109° 10.8′ E	**Iso.W.** period 4s	82 **25**	10	White beacon, black bands, white triangular daymark point down; 26.	
25077 *F 1872.3*	-Jungkat.	0° 02.9′ N 109° 12.4′ E	**Fl.R.** period 4s fl. 0.5s, ec. 3.5s	39 **12**	6	PORT (A) R, beacon, topmark; 33.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			INDONESIA (BORNEO)				
25077.2 *F 1872.4*	-Tg. Wajak.	0° 01.7′ N 109° 14.5′ E	**Fl.R.** period 2s fl. 0.5s, ec. 1.5s	39 **12**	6	PORT (A) R, beacon, topmark; 33.	
25077.4 *F 1872.5*	--About 1.5 miles NW. of of Batu Layang.	0° 00.6′ N 109° 16.8′ E	**Iso.R.** period 2s	36 **11**	6	White metal framework structure; 26.	
25079 *F 1873.2*	-Oil jetty.	0° 00.4′ N 109° 19.8′ E	**Q.(4)W.** period 8s	49 **15**	10	White beacon; 49.	F.R. shown on beacons upstream.
25080 *F 1880*	**Pulau Pengiki.**	0° 14.7′ N 108° 02.4′ E	**Fl.(3)W.** period 20s fl. 1s, ec. 3s fl. 1s, ec. 3s fl. 1s, ec. 11s	676 **206**	**20**	White framework tower; 49.	
25081 *F 1879*	**Pulau Datu.**	0° 07.6′ N 108° 36.6′ E	**Fl.(3)W.** period 9s fl. 0.8s, ec. 1.2s fl. 0.8s, ec. 1.2s fl. 0.8s, ec. 4.2s	203 **62**	**15**	White framework structure; 98.	Visible 190°-030°.
25082 *F 1883*	**Pulau Sitijan.**	0° 22.0′ N 108° 44.6′ E	**Fl.(2)W.** period 15s	294 **90**	**24**	White concrete tower.	
25084 *F 1885*	**Pulau Lemoekoetan.**	0° 46.8′ N 108° 42.1′ E	**Fl.(3)W.** period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	1030 **314**	**15**	White metal framework tower; 59.	
25086 *F 1887*	Tambelan.	0° 58.5′ N 107° 32.6′ E	**Fl.W.** period 3s fl. 0.3s, ec. 2.7s	39 **12**	12	White beacon.	
25086.2 *F 1887.5*	Karang Takongmangirang.	0° 50.9′ N 107° 37.3′ E	**Q(2).W.** period 8s	49 **15**	12	White fiberglass tower; 33.	**Radar reflector.**
25086.3 *F 1888*	Pulau Jangkulan.	0° 44.8′ N 107° 19.4′ E	**Fl.(3)W.** period 15s fl. 0.3s, ec. 1.7s fl. 0.3s, ec. 1.7s fl. 0.3s, ec. 10.7s	49 **15**	12	White fiberglass tower; 33.	
25086.4 *F 1888.5*	Tokong Kemudi.	0° 55.7′ N 106° 44.1′ E	**Fl.W.** period 5s fl. 1s, ec. 4s	427 **130**	12	White beacon.	
25086.5 *F 1889*	Pualu Dumdum.	1° 11.5′ N 106° 53.3′ E	**Fl.W.** period 3s fl. 0.5s, ec. 2.5s	49 **15**	13	White beacon; 39.	
25088 *F 1890*	Tg. Batu, N. extremity of Pulau Penibuengan.	1° 11.1′ N 108° 58.1′ E	**Fl.G.** period 3s fl. 0.5s, ec. 2.5s	36 **11**	9	STARBOARD (A) G, beacon, topmark; 36.	
25092 *F 1891*	**Pulau Pekak**, W. of Tg. Kalang Base.	1° 12.0′ N 108° 57.4′ E	**Fl.(2)W.** period 15s fl. 0.3s, ec. 3.5s fl. 0.3s, ec. 10.9s	433 **132**	**23**	White tower; 131.	
25094 *F 1892*	Pemangkat Range, front.	1° 11.5′ N 108° 58.2′ E	**Iso.W.** period 2s	49 **15**	12	White framework tower, black bands, white triangular daymark point up; 33.	
25094.2 *F 1892.1*	-Rear, 1148 meters, 094°15′ from front.	1° 11.4′ N 108° 58.9′ E	**Iso.W.** period 4s	65 **20**	14	White framework tower, black bands, white triangular daymark point down; 46.	
25096 *F 1854*	**Pulau Murih.**	1° 54.1′ N 108° 38.9′ E	**Fl.W.** period 6s fl. 0.5s, ec. 5.5s	335 **102**	**25**	White metal framework tower; 66.	
	RACON		**K(– • –)**		10		

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			INDONESIA (BORNEO)				
	KEPULAUAN NATUNA:						
25100 *F 1850*	**-Pulau Merundung.**	2° 04.2′ N 109° 05.9′ E	**Fl.(3)W.** period 15s fl. 0.7s, ec. 2.5s fl. 0.7s, ec. 2.5s fl. 0.7s, ec. 7.9s	121 **37**	**16**	White metal framework tower; 98.	
25104 *F 1847*	Serasan.	2° 29.8′ N 109° 00.6′ E	**L.Fl.W.** period 9s fl. 2s, ec. 7s	39 **12**	7	Tower.	
25106 *F 1848*	-Batu Pacil.	2° 28.6′ N 109° 00.7′ E	**Fl.R.** period 3s fl. 0.5s, ec. 2.5s	41 **12**	11	PORT (A) R, tower, topmark.	Fl.G. 3s 10M close E.
25107 *F 1845*	**Pulau Seraja.**	2° 41.1′ N 108° 34.6′ E	**Fl.W.** period 6s fl. 1s, ec. 5s	318 **97**	**24**	White beacon.	
25108 *F 1844*	**-Pulau Subi-kechil.**	3° 03.0′ N 108° 50.9′ E	**Fl.W.** period 5s	272 **83**	**24**	White metal framework tower; 72.	Visible 024°-337°. Obscured 040°-042° by Bakan Island.

Section 16

Sulawesi, Halmahera, Lesser Sunda Islands and New Guinea

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			INDONESIA SULAWESI (CELEBES)				
25111.7 *F 2051*	Dolangan Island.	1° 22.6′ N 120° 53.1′ E	**Fl.W.** period 6s fl. 1s, ec. 5s	75 **23**	12	White beacon; 49.	
25112 *F 2050*	**Tanjung Malagka.**	1° 20.2′ N 120° 47.7′ E	**L.Fl.W.** period 5s fl. 2s, ec. 3s	187 **57**	**19**	White metal framework tower; 82.	Obscured in places by Pulau Dalangan, Pulau Kapas, and the coast.
	RACON		**M(– –)**				(3 & 10cm).
25113 *F 2052*	**Kandi.**	1° 18.4′ N 121° 27.2′ E	**Fl.(3)W.** period 20s fl. 0.4s, ec. 2.6s fl. 0.4s, ec. 2.6s fl. 0.4s, ec. 13.6s	394 **120**	**26**	Lighthouse; 131.	
25114 *F 2040*	**Manimbaya.**	0° 00.5′ S 119° 36.7′ E	**Fl.(2)W.** period 20s fl. 0.4s, ec. 9.6s fl. 0.4s, ec. 9.6s	164 **50**	**18**	Lighthouse; 131.	
25116 *F 2048*	Tg. Labuan Dedeh.	1° 03.2′ N 120° 47.9′ E	**Fl.W.** period 3s fl. 0.5s, ec. 2.5s	52 **16**	10	White metal framework tower; 49.	
25118 *F 2046*	**Simatang.**	1° 04.5′ N 120° 23.4′ E	**Fl.(2)W.** period 8s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	102 **31**	**16**	White beacon.	
25119 *F 2045*	Lingian.	0° 59.6′ N 120° 12.8′ E	**Fl.W.** period 3s fl. 0.7s, ec. 2.3s	49 **15**	12	White beacon.	
25120 *F 2044*	**Pulau Tugguan.**	0° 34.6′ N 119° 47.7′ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	302 **92**	**23**	White metal framework tower; 65.	
	RACON		**T(–)**				(3 & 10cm).
25121 *F 2047*	**Tg. Paligisan.**	1° 00.9′ N 120° 40.4′ E	**Fl.W.** period 10s fl. 1s, ec. 9s	102 **31**	**16**	White beacon.	
25122 *F 2047.5*	**Palau Latungan.**	1° 02.8′ N 120° 46.4′ E	**Fl.(2)W.** period 8s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	147 **45**	**18**	White beacon.	
25124 *F 2054*	Leok, at customhouse.	1° 11.2′ N 121° 25.3′ E	**Fl.W.** period 4s fl. 0.5s, ec. 3.5s	59 **18**	2	Mast; 49.	
25126 *F 2058*	Karang Baliogut.	1° 07.8′ N 122° 26.6′ E	**Fl.W.** period 3s fl. 0.5s, ec. 2.5s	39 **12**	8	White beacon.	
25128 *F 2060*	Pulau Hulawa.	0° 57.8′ N 122° 53.3′ E	**Fl.W.** period 3s fl. 0.5s, ec. 2.5s	131 **40**	12	White metal framework tower; 82.	
25129 *F 2061.1*	Karang Otilade.	0° 54.3′ N 122° 51.0′ E	**Fl.W.** period 12s fl. 1.2s, ec. 10.8s	39 **12**	12	White beacon.	

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(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			INDONESIA SULAWESI (CELEBES)-ADJACENT ISLANDS				
25132 *F 2062*	Teluk Kuandang.	0° 50.8′ N 122° 54.1′ E	**Fl.W.** period 3s fl. 0.5s, ec. 2.5s	39 **12**	12	Metal post; 26.	
25134 *F 2062.5*	**Pulau Bangkil.**	1° 02.4′ N 123° 06.5′ E	**Fl.W.** period 5s fl. 0.7s, ec. 4.3s	56 **17**	**15**	White fiberglass tower; 33.	**Radar reflector.**
25136 *F 2063*	Lubuan Boroko.	0° 56.0′ N 123° 16.0′ E	**F.W.**		1		Shown when vessel is expected.
25137 *F 2063.3*	Pulau Tikus.	0° 51.3′ N 123° 55.5′ E	**Fl.W.** period 3s fl. 0.4s, ec. 2.6s	49 **15**	12	White beacon.	
25139 *F 2063.8*	**Tg Lobu.**	0° 59.3′ N 124° 13.0′ E	**Fl.W.** period 5s fl. 0.7s, ec. 4.3s	80 **24**	**16**	White fiberglass beacon; 33.	**Radar reflector.**
25140 *F 2064*	Amurang, about 489 meters 270° from Controleur flagstaff.	1° 11.2′ N 124° 34.5′ E	**Fl.W.** period 3s fl. 0.5s, ec. 2.5s	30 **9**	10	White beacon; 20.	
25142 *F 2064.4*	Tetapaan.	1° 17.9′ N 124° 30.3′ E	**Fl.R.** period 3s fl. 0.5s, ec. 2.5s	39 **12**	11	PORT (A) R, beacon, topmark.	
	TELUK MANADO:						
25144 *F 2066*	**-Manado.**	1° 28.5′ N 124° 50.0′ E	**L.Fl.W.** period 8s fl. 2s, ec. 6s	105 **32**	**15**	White metal framework tower; 39.	
25148 *F 2068*	--S. mole, head.	1° 29.4′ N 124° 50.3′ E	**Fl.G.** period 3s fl. 0.5s, ec. 2.5s	39 **12**	12	Green beacon.	
25152 *F 2070*	--N. mole, head.	1° 29.9′ N 124° 50.1′ E	**Fl.R.** period 3s fl. 0.5s, ec. 2.5s	39 **12**	12	Metal post; 20.	
	PULAU TALISEI:						
25156 *F 2072*	**-Tanjung Arus.**	1° 53.4′ N 125° 05.3′ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	354 **108**	**24**	White metal framework tower; 65.	Visible 072°-000°.

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			INDONESIA SULAWESI (CELEBES)				
25156.2 *F 2070.5*	**Manterawu Island.**	1° 45.8′ N 124° 43.9′ E	**Fl.(2)W.** period 10s fl. 1s, ec. 1s fl. 1s, ec. 7s	164 **50**	**20**	White tower; 131.	
25156.5 *F 2071*	Likupang.	1° 40.6′ N 125° 03.3′ E	**Fl.W.** period 3s fl. 0.5s, ec. 2.5s	33 **10**	11	White beacon.	

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(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
	INDONESIA SULAWESI (CELEBES)-ADJACENT ISLANDS						
25157 *F 2079.57*	**Batukapal.**	1° 33.1′ N 125° 17.1′ E	**Iso.W.** period 6s	115 **35**	**17**	White beacon.	
25158 *F 2077*	Selat Lembah, Tg Batuangus.	1° 30.9′ N 125° 14.6′ E	**Fl.G.** period 3s fl. 0.5s, ec. 2.5s	49 **15**	12	Green beacon; 49.	
25160 *F 2078*	Lembeh Strait, middle part.	1° 27.8′ N 125° 14.0′ E	**Fl.R.** period 3s fl. 0.3s, ec. 2.7s	59 **18**	8	Red and white beacon; 49.	
25162 *F 2079.55*	**Pulau Susulina.**	1° 24.5′ N 125° 13.3′ E	**Iso.W.** period 6s	82 **25**	**15**	White beacon.	
25164 *F 2079.5*	Pulau Lembeh, SW. of island on rock.	1° 23.4′ N 125° 09.6′ E	**Fl.(2)G.** period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 7.5s	56 **17**	10	Green beacon; 39.	Visible 287°30′-208°.
25168 *F 2079.6*	**Lilang.**	1° 19.4′ N 125° 04.0′ E	**Fl.W.** period 3s fl. 1s, ec. 2s	230 **70**	**20**	White metal framework tower; 98.	
25169 *F 2079.7*	**Pakolor.**	3° 38.9′ N 125° 33.7′ E	**Fl.W.** period 4.5s fl. 0.5s, ec. 4s	413 **126**	**27**	White house.	

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(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
	INDONESIA (HALMAHERA-SULAWESI (CELEBES)-ADJACENT ISLANDS)						
25172 *F 2079*	Tg. Labuan Compenie.	1° 25.9′ N 125° 11.2′ E	**Fl.(3)W.** period 15s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 9.5s	190 **58**	6	White beacon; 33.	Partially obscured E. of 035°30′ by Lembeh Island.
25176 *F 2114*	Pasige.	2° 21.2′ N 125° 17.7′ E	**Fl.W.** period 2.5s fl. 0.5s, ec. 2s	49 **15**	12	White metal framework tower; 49.	
25180 *F 2116*	Pulau Tahulandang, near flagstaff.	2° 20.5′ N 125° 23.0′ E	**Fl.W.** period 3s fl. 0.5s, ec. 2.5s	46 **14**	3	White metal post; 39.	
25184 *F 2120*	Pulau Siau, Ulu, Government wharf.	2° 43.9′ N 125° 24.5′ E	**Fl.W.** period 3s fl. 0.5s, ec. 2.5s	49 **15**	12		Not visible bearing less than 261°. Shown when vessel is expected.
25186 *F 2119*	**Mahora.**	2° 39.0′ N 125° 29.3′ E	**Fl.(2)W.** period 8s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	262 **80**	**23**	White beacon.	
25188 *F 2120.5*	-Toade Manandoe.	3° 24.8′ N 125° 31.5′ E	**Fl.W.** period 3s fl. 0.5s, ec. 2.5s	65 **20**	14	White beacon.	
25190 *F 2123*	**Tahuna.**	3° 35.6′ N 125° 29.1′ E	**Fl.W.** period 3s fl. 1s, ec. 2s	426 **130**	**25**	White metal framework tower; 98.	
25192 *F 2124*	**Pulau Sangihe.**	3° 36.6′ N 125° 29.5′ E	**Fl.(2)W.** period 8s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	105 **32**	**16**	White metal building; 30.	Visible 036°-074°. Shown when vessel is expected.
25194 *F 2127*	**Pulau Beng.**	3° 28.9′ N 125° 44.1′ E	**Fl.W.** period 5s fl. 0.7s, ec. 4.3s	348 **106**	**16**	White fiberglass beacon; 33.	

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25196 *F 2126*	-Peta, pier, head.	3° 38.9′ N 125° 33.6′ E	**F.R.**	29 **9**	2	Metal mast; 20.	
25196.5 *F 2127.5*	**Pulau Manipa.**	3° 45.2′ N 125° 33.4′ E	**Fl.W.** period 10s fl. 0.1s, ec. 9.9s	226 **69**	**24**	White beacon; 98.	
25197 *F 2128*	**Salehe.**	3° 52.2′ N 125° 43.4′ E	**Fl.(2)W.** period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 7.5s	263 **80**	**23**	White beacon.	
25197.2 *F 2137*	**Dumarehe Island.**	4° 13.7′ N 125° 42.1′ E	**Fl.W.** period 4s fl. 1s, ec. 3s	112 **34**	**15**	White metal framework structure; 33.	
25197.5 *F 2136*	**Palau Kawalusu.**	4° 14.0′ N 125° 19.3′ E	**Fl.W.** period 8s fl. 0.5s, ec. 7.5s	262 **80**	**23**	White beacon.	
25197.8 *F 2133.5*	**Tg. Palle.**	3° 44.2′ N 126° 48.6′ E	**Fl.W.** period 10s fl. 0.1s, ec. 9.9s	213 **65**	**24**	White beacon; 131.	
25198 *F 2133*	Lirung.	3° 56.4′ N 126° 41.8′ E	**Fl.W.** period 3s fl. 0.5s, ec. 2.5s	39 **12**	12	Beacon.	
25198.5 *F 2132.5*	Tg Salonggaka.	4° 02.9′ N 126° 36.3′ E	**Fl.(2)W.** period 6s fl. 0.3s, ec. 1s fl. 0.3s, ec. 4.4s	66 **20**	14	White beacon.	
25199 *F 2134*	Karatung.	4° 44.7′ N 127° 03.2′ E	**Fl.W.** period 3s fl. 1s, ec. 2s	39 **12**	12	Beacon.	
25200 *F 2135*	**Marore.**	4° 44.2′ N 125° 28.7′ E	**Fl.(2)W.** period 10s fl. 0.5s, ec. 2.5s fl. 0.5s, ec. 6.5s	591 **180**	**23**	White beacon; 131.	
	RACON		**O(– – –)**				(3 & 10cm).
25200.2 *F 2134.8*	**Kawio Island.**	4° 40.2′ N 125° 25.8′ E	**Fl.(2)W.** period 10s fl. 1s, ec. 1.5s fl. 1s, ec. 6.5s	197 **60**	**20**	White beacon; 98.	
25200.5 *F 2134.5*	**Kemboling Island.**	4° 39.1′ N 125° 26.1′ E	**Fl.W.** period 6s fl. 1s, ec. 5s	171 **52**	**16**	White metal framework structure; 33.	
25201 *F 2135.5*	**Pulau Manutuang.**	4° 26.1′ N 125° 41.5′ E	**Fl.W.** period 5s fl. 1s, ec. 4s	351 **107**	**25**	White structure.	
25202 *F 2132*	**Tg. Ambora.**	4° 33.1′ N 126° 44.4′ E	**Fl.(3)W.** period 20s fl. 0.4s, ec. 2.6s fl. 0.4s, ec. 2.6s fl. 0.4s, ec. 13.6s	138 **42**	**40**	131.	
25204 *F 2130*	Teluk Beo, Pulau Karake long, NE. of flagstaff.	4° 14.0′ N 126° 48.0′ E	**F.R.**	62 **19**	2	White metal mast; 33.	Obscured when bearing 057°.
25208 *F 2100*	Ternate, pier, head.	0° 47.0′ N 127° 23.0′ E	**Fl.W.** period 3s fl. 0.8s, ec. 2.2s	75 **23**	10	White mast; 66.	
25210 *F 2107.3*	**Pulau Makian.**	0° 19.8′ N 127° 20.9′ E	**Fl.W.** period 5s fl. 1s, ec. 4s	82 **25**	**15**	White metal framework structure; 66.	

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25212 *F 2105*	**-Tanjung Kahu Merah.**	0° 45.6′ N 127° 22.1′ E	**Fl.(2)W.** period 15s fl. 0.5s, ec. 4.5s fl. 0.5s, ec. 9.5s	105 **32**	**16**	White framework tower; 10.	
25216 *F 2105.5*	G. Ternate, S. end of island.	0° 46.0′ N 127° 19.0′ E	**Q.(4)W.** period 8s	33 **10**		White beacon.	
25217 *F 2106*	**Pulau Hiri.**	0° 53.9′ N 127° 18.3′ E	**Fl.W.** period 4s fl. 0.5s, ec. 3.5s	377 **115**	**18**	White metal framework tower; 98.	
	HALMAHERA:						
25218 *F 2109*	-Tg. Loleo.	1° 06.1′ N 127° 47.3′ E	**Fl.(2)W.** period 7s fl. 1s, ec. 1s fl. 1s, ec. 4s	46 **14**	12	White beacon.	
25219 *F 2109.2*	-Wangeotak.	1° 07.2′ N 127° 52.9′ E	**Fl.G.** period 4s fl. 0.5s, ec. 3.5s	26 **8**	6	STARBOARD (A) G, beacon, topmark.	
25220 *F 2110.5*	-Kupakupa.	1° 37.4′ N 127° 59.4′ E	**Fl.W.** period 3s fl. 1s, ec. 2s	43 **13**	12	White beacon.	
25222 *F 2110*	-Tobelo.	1° 43.5′ N 128° 00.5′ E	**F.R.**	29 **9**	2	White metal framework tower; 20.	
25222.3 *F 2110.5*	-Tanjung Haaka.	1° 37.3′ N 127° 58.9′ E	**Fl.W.** period 3s fl. 1s, ec. 2s	42 **13**	12	White beacon.	
25222.4 *F 2110.3*	**-Sidanga.**	1° 39.9′ N 127° 29.2′ E	**Fl.W.** period 3s fl. 0.5s, ec. 2.5s	305 **93**	**18**	White metal framework structure; 98.	
25222.45 *F 2107.8*	**-Tanjung Bobo.**	1° 02.4′ N 127° 24.8′ E	**Fl.(2)W.** period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	689 **210**	**30**	White metal framework structure; 131.	
25222.5 *F 2111.5*	Dododahohe.	1° 57.9′ N 128° 12.9′ E	**Iso.W.** period 3s	33 **10**	11	White beacon.	**Radar reflector.**
25222.55 *F 2111.3*	**-Tanjung Sopi.**	2° 38.4′ N 128° 34.2′ E	**Fl.W.** period 6s fl. 0.5s, ec. 5.5s	305 **93**	**20**	White metal framework structure; 131.	
25222.6 *F 2111.8*	**Tanjung Sofa.**	0° 02.3′ N 129° 17.8′ E	**Fl.W.** period 10s fl. 0.5s, ec. 9.5s	233 **71**	**20**	White tower; 131.	
25222.65 *F 2109.8*	**Pulau Yiew.**	0° 43.6′ N 129° 08.2′ E	**Fl.(2)W.** period 10s fl. 1s, ec. 1s fl. 1s, ec. 7s	131 **40**	**20**	White tower; 131.	
25222.7 *F 2107.5*	**Pasirputih.**	1° 19.2′ N 126° 21.5′ E	**Fl.W.** period 3s fl. 1s, ec. 2s	131 **40**	**15**	White metal framework structure.	
25222.8 *F 2107.56*	**Pulau Mayu.**	1° 19.8′ N 126° 24.9′ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	108 **33**	**17**	White metal framework structure; 66.	
25223 *F 2108*	-Jailulo.	1° 03.8′ N 127° 27.8′ E	**F.R.**	29 **9**	3	White metal post; 20.	
25224 *F 2107*	Tidore, Soasiu.	0° 39.0′ N 127° 26.0′ E	**F.R.**	26 **8**	3	White metal post; 20.	

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25228 *F 2082*	Pulau Pardana.	0° 26.9′ N 124° 28.7′ E	**Fl.W.** period 4s fl. 0.5s, ec. 3.5s	241 **73**	6	White metal framework tower; 72.	Visible 232°-076°.
	TELUK TOMINI:						
25232 *F 2083*	-Gorontalo, E. bank of river, N. side of gulf.	0° 30.1′ N 123° 03.8′ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	119 **36**	12	White metal framework tower; 19.	Visible 320°30′-049°30′.
25234 *F 2083.3*	Harbormaster's Office.	0° 30.0′ N 123° 03.1′ E	**Fl.W.** period 3s fl. 1s, ec. 2s	66 **20**	14	Building; 26.	
25236 *F 2086*	-Moutong	0° 28.1′ N 121° 14.2′ E	**F.R.**	39 **12**	12	Beacon.	
25237 *F 2087*	Tomini.	0° 30.8′ N 120° 33.7′ E	**Fl.(2)W.** period 8s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	46 **14**	12	Beacon.	
25238 *F 2086.5*	**Panabean.**	0° 17.0′ N 121° 15.0′ E	**Fl.(2)W.** period 8s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	102 **31**	**16**	Beacon.	
25238.5 *K 1577*	Pulau Una-una.	0° 08.4′ S 121° 38.9′ E	**Fl.W.** period 3s fl. 1s, ec. 2s	43 **13**	12	Beacon.	
25239 *K 1578*	Pasir Tengah.	0° 24.7′ S 121° 38.7′ E	**Fl.W.** period 4s fl. 0.5s, ec. 3.5s	49 **15**	12	White beacon.	
25240 *K 1576*	-Parigi, on beach.	0° 48.8′ S 120° 10.5′ E	**Fl.W.** period 7s fl. 1s, ec. 6s	23 **7**	6	White metal framework tower; 20.	Emergency light.
25242	Labuandedeh.	1° 03.7′ S 120° 48.4′ E	**Fl.W.** period 3s	52 **16**	10	White beacon.	
25244 *K 1575*	--Fuel Depot	1° 23.1′ S 120° 42.7′ E	**Fl.W.** period 5s	33 **10**	10		
25248 *K 1574*	-Poso Road, pier, head.	1° 22.6′ S 120° 45.6′ E	**Oc.W.** period 3s lt. 2s, ec. 1s	52 **16**	10	White metal framework tower; 49.	
25248.5 *K 1572.5*	Karang Pagaimana.	0° 47.3′ S 122° 39.2′ E	**Fl.R.** period 4s fl. 0.5s, ec. 3.5s	26 **8**	10	PORT (A) R, beacon, topmark.	
25249 *K 1565.5*	Mendono.	1° 08.5′ S 122° 42.5′ E	**Fl.W.** period 4s fl. 0.5s, ec. 3.5s	43 **13**	12	White beacon.	
25252 *K 1566*	-Luwuk Road.	0° 56.7′ S 122° 47.9′ E	**Fl.W.** period 5s fl. 1s, ec. 4s	59 **18**	13	White beacon.	
25256 *K 1566.3*	--Pertamina.	0° 56.4′ S 122° 48.8′ E	**Fl.(4)W.** period 10s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 5s	36 **11**	12	White beacon; 33.	**Radar reflector.**
25257 *K 1566.4*	--Luwuk.	0° 57.1′ S 122° 47.6′ E	**Fl.W.** period 3s fl. 0.5s, ec. 2.5s	33 **10**	11	Red beacon.	
25258 *K 1572.4*	**Pagimana.**	0° 47.9′ S 122° 38.5′ E	**Fl.(2)W.** period 8s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	131 **40**	**17**	Beacon.	

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25260 *K 1572*	-Selat Walera, drying reef, on E. side.	0° 25.4′ S 122° 25.9′ E	**Fl.(3)W.** period 20s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 14.5s	62 **19**	7	White beacon; 43.	
25260.2 *K 1571.5*	Pulau Pasir.	0° 27.8′ S 122° 48.5′ E	**Fl.W.** period 6s fl. 0.5s, ec. 5.5s	49 **15**	12	White beacon.	
25260.5 *K 1571*	Pulau Sensiri.	0° 28.7′ S 122° 55.7′ E	**Fl.(2)W.** period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	49 **15**	12	White beacon.	
25261 *K 1572.7*	Pulau Buka-Buka.	0° 44.6′ S 121° 46.0′ E	**Fl.(2)W.** period 7s fl. 1s, ec. 1s fl. 1s, ec. 4s	49 **15**	12	White beacon.	
25262 *K 1580*	**Tg Komnali.**	0° 12.7′ S 122° 14.7′ E	**Fl.(2)W.** period 8s fl. 0.5s, ec. 1s fl. 0.5s, ec. 6s	164 **50**	**19**	White beacon.	
25264 *K 1563*	Tomori Bay.	1° 58.9′ S 121° 51.1′ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	59 **18**	8	White beacon, red bands.	
25266 *K 1563.2*	-Teluk Tomari.	2° 00.7′ S 121° 33.6′ E	**Fl.R.** period 4s fl. 1.5s, ec. 2.5s	46 **14**	12	Red beacon.	
25268 *K 1563.5*	**-Tanjung Bea.**	1° 57.7′ S 121° 37.7′ E	**Fl.W.** period 5s	59 **18**	**18**	White metal framework tower; 49.	
25272 *K 1564*	-Tanjung Mposo.	1° 56.9′ S 121° 32.6′ E	**Fl.G.** period 4s fl. 0.5s, ec. 3.5s	52 **16**	11	Beacon, green triangular daymark point up.	
25273 *K 1564.2*	Karang Dalam Oll.	1° 54.5′ S 121° 28.3′ E	**Fl.W.** period 4s fl. 0.5s, ec. 3.5s	49 **15**	12	White beacon.	
25274 *K 1564.7*	**Kolonodale.**	1° 59.3′ S 121° 20.4′ E	**Fl.(2)W.** period 8s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	108 **33**	**16**	Metal post; 98.	
25274.2 *K 1564.8*	Karang Thames.	1° 33.3′ S 122° 38.4′ E	**Fl.R.** period 4s fl. 1.5s, ec. 2.5s	46 **14**	12	Red beacon.	
25274.3 *K 1565*	**Tg. Kembani.**	1° 36.0′ S 122° 52.7′ E	**Fl.W.** period 10s fl. 0.5s, ec. 9.5s	72 **22**	**24**	White beacon; 66.	
25274.6 *K 1562.93*	**Tg Losoni.**	2° 39.5′ S 122° 02.0′ E	**Fl.(4)W.** period 10s fl. 0.2s, ec. 2.1s fl. 0.2s, ec. 2.1s fl. 0.2s, ec. 2.1s fl. 0.2s, ec. 2.9s	164 **50**	**20**	White tower.	
25275 *K 1566.6*	Tg Tobo.	1° 09.7′ S 123° 06.0′ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	56 **17**	13	White beacon.	
25275.5 *K 1566.7*	**Tg Bankalanutara.**	1° 09.3′ S 123° 17.7′ E	**Fl.W.** period 6s fl. 1s, ec. 5s	164 **50**	**19**	White beacon.	
25275.58 *K 1567.6*	**Pondipondi.**	1° 12.9′ S 123° 24.7′ E	**Fl.W.** period 4s fl. 0.8s, ec. 3.2s	276 **84**	**15**	White beacon.	

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25275.6 *K 1566.8*	Tg Montok.	1° 13.8′ S 123° 14.8′ E	**Fl.G.** period 5s fl. 0.5s, ec. 4.5s	29 **9**	9	STARBOARD (A) G, beacon, topmark.	
25275.7 *K 1567.5*	Lamobuang.	1° 18.2′ S 123° 17.9′ E	**Fl.G.** period 3s fl. 0.5s, ec. 2.5s	23 **7**	6	STARBOARD (A) G, beacon, topmark.	
25275.8 *K 1567.7*	Tanjung Sambiut.	1° 24.4′ S 123° 32.3′ E	**Fl.W.** period 4s fl. 1s, ec. 3s	46 **14**	12	White beacon.	
25275.9 *K 1567.8*	Pulau Toulon Besar.	1° 31.7′ S 123° 28.9′ E	**Fl.R.** period 5s fl. 1s, ec. 4s	46 **14**	12	Red beacon.	
25276 *K 1568*	Pulau Banggai, pier, foot.	1° 35.3′ S 123° 29.9′ E	**F.R.**	13 **4**	2	Mast; 26.	
25278 *K 1559.95*	Karang Samaringa.	3° 23.2′ S 122° 49.0′ E	**Fl.R.** period 5s fl. 0.7s, ec. 4.3s	43 **13**	12	Red beacon.	
25278.5 *K 1559.97*	**Dehaan Island.**	3° 29.0′ S 122° 29.0′ E	**Fl.(4)W.** period 10s fl. 0.8s, ec. 1.2s fl. 0.8s, ec. 1.2s fl. 0.8s, ec. 1.2s fl. 0.8s, ec. 3.2s	180 **55**	**23**	White concrete beacon; 33.	
25279 *K 1559.8*	**P. Manui.**	3° 37.0′ S 123° 10.4′ E	**Fl.W.** period 4s fl. 0.5s, ec. 3.5s	148 **45**	**15**	White beacon.	
25280 *K 1559*	Saponda on middle islet.	3° 58.3′ S 122° 46.5′ E	**Fl.W.** period 4s fl. 0.5s, ec. 3.5s	39 **12**	12	White pipe; 33.	
25284 *K 1559.5*	Sappa Djawbi Bank.	3° 58.4′ S 122° 40.6′ E	**Fl.R.** period 6s fl. 0.6s, ec. 5.4s	49 **15**	5	Red beacon.	
25285 *K 1559.75*	Karang Langgara Bugis.	4° 01.5′ S 122° 58.7′ E	**Fl.(3)G.** period 10s	23 **7**	6	STARBOARD (A) G, beacon, topmark.	
25286 *K 1559.74*	Karang Langgara Bajo.	4° 01.3′ S 122° 58.8′ E	**Fl.(3)R.** period 10s	23 **7**	6	PORT (A) R, beacon, topmark.	
25288 *K 1559.7*	**Wowoni Island, Tg. Pemali.**	3° 58.7′ S 123° 00.9′ E	**Fl.(4)W.** period 20s	144 **44**	**25**	White metal framework tower; 131.	
25289 *K 1559.9*	**-Tg Watutembatu.**	4° 05.7′ S 123° 15.4′ E	**Fl.(4)W.** period 10s fl. 0.2s, ec. 2.1s fl. 0.2s, ec. 2.1s fl. 0.2s, ec. 2.1s fl. 0.2s, ec. 2.9s	213 **65**	**22**	White metal framework structure; 131.	
25290 *K 1560.3*	Teluk Kendari Range, front.	3° 58.3′ S 122° 36.2′ E	**Iso.W.** period 4s	30 **9**	8	Metal framework structure, white triangular daymark point up; 20.	
25290.2 *K 1560.31*	-Rear, 13 meters 256°01′ from front.	3° 58.3′ S 122° 36.1′ E	**Iso.W.** period 2s	36 **11**	8	Metal framework structure, white triangular daymark point down; 26.	
25292 *K 1560*	Bungku Toko.	3° 58.3′ S 122° 36.2′ E	**Fl.R.** period 2s fl. 0.5s, ec. 1.5s	39 **12**	12	PORT (A) R, post, topmark; 30.	Visible 260°-298°.
25296 *K 1560.05*	-Tanjung Kendari.	3° 58.7′ S 122° 36.0′ E	**Fl.R.** period 2s fl. 0.5s, ec. 1.5s	39 **12**	5	Red beacon; 33.	
25300 *K 1560.2*	Langi Bajo.	3° 58.5′ S 122° 35.7′ E	**Fl.G.** period 3s fl. 0.5s, ec. 2.5s	72 **22**	6	White beacon; 30.	

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25308 *K 1562*	Kendari.	3° 58.3′ S 122° 35.0′ E	**Fl.W.** period 3s fl. 0.5s, ec. 2.5s	46 **14**	10	Beacon.	**Radar reflector.**
25310 *K 1558.7*	S. Campada.	4° 11.6′ S 122° 54.7′ E	**Fl.R.** period 4s fl. 0.5s, ec. 3.5s	56 **17**	10	Red beacon.	
25311 *K 1558.4*	**Tg. Buton.**	4° 22.6′ S 123° 04.7′ E	**Fl.W.** period 3s fl. 0.7s, ec. 2.3s	197 **60**	**15**	Fiberglass tower; 33.	
25312 *K 1558.5*	Karang Cempanda, W.	4° 12.7′ S 122° 54.8′ E	**Fl.R.** period 3s fl. 0.5s, ec. 2.5s	56 **17**	6	Red beacon.	
25316 *K 1558.6*	-East.	4° 12.6′ S 122° 56.0′ E	**Fl.G.** period 4s fl. 0.5s, ec. 3.5s	10 **3**	4	STARBOARD (A) G, beacon, topmark.	
25317 *K 1550.5*	**Tanjung Loba.**	4° 31.9′ S 122° 52.3′ E	**Fl.(2)W.** period 8s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	105 **32**	**15**	White beacon.	
25317.2 *K 1549.4*	Selat Tioro, Turubulu.	4° 27.0′ S 122° 27.7′ E	**Fl.W.** period 3s fl. 0.6s, ec. 2.4s	43 **13**	10	White beacon.	
25317.6 *K 1549.7*	Selat Tioro, Tampo.	4° 38.0′ S 122° 39.6′ E	**Fl.W.** period 3s fl. 0.6s, ec. 2.4s	43 **13**	10	White beacon.	
25318 *K 1550*	Tampo.	4° 37.8′ S 122° 42.9′ E	**Fl.W.** period 3s fl. 0.5s, ec. 2.5s	39 **12**	10	White framework tower; 33.	
25318.4 *K 1549.15*	Beromadilao.	4° 33.7′ S 122° 24.3′ E	**Fl.(2)W.** period 7s fl. 1s, ec. 1s fl. 1s, ec. 4s	39 **12**	12	White beacon.	
25318.6 *K 1549.1*	Beromasidi.	4° 34.8′ S 122° 17.8′ E	**Fl.(2)W.** period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	39 **12**	12	White beacon.	
25318.8 *K 1549.05*	West Pulau Maloang.	4° 38.5′ S 122° 15.0′ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	39 **12**	12	White pipe; 33.	
25319 *K 1549.2*	Pulau Magenti.	4° 50.1′ S 122° 11.5′ E	**Fl.(2)G.** period 6s fl. 0.8s, ec. 1.2s fl. 0.8s, ec. 3.2s	39 **12**	12	STARBOARD (A) G, beacon, topmark.	
25319.05 *K 1549.25*	Pulau Mangatah.	4° 50.8′ S 122° 08.8′ E	**Q.(6)+L.Fl.W.** period 15s	39 **12**	12	S. CARDINAL YB, beacon, topmark.	
25319.1 *K 1549.3*	Karang Sapamataha.	4° 58.5′ S 122° 07.9′ E	**Fl.(2)W.** period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	39 **12**	12	White beacon.	
25319.3 *K 1549.35*	Sapa Tarapimpi.	5° 03.9′ S 122° 08.4′ E	**Fl.(2)W.** period 7s fl. 1s, ec. 1s fl. 1s, ec. 4s	39 **12**	12	White beacon.	

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			INDONESIA SULAWESI (CELEBES)-ADJACENT ISLANDS				
25320 *K 1551*	Raha, W. side of Buton Strait.	4° 50.7′ S 122° 44.4′ E	**Fl.(2)W.** period 5s fl. 0.3s, ec. 1.7s fl. 0.3s, ec. 2.7s	56 **17**	10	ISOLATED DANGER BRB, beacon, topmark.	**Radar reflector.**
25324 *K 1551.2*	-Pier, head.	4° 50.5′ S 122° 43.9′ E	**Fl.Y.** period 3s fl. 0.5s, ec. 2.5s	59 **18**	6	Yellow beacon; 49.	**Radar reflector.**
25328 *K 1551.5*	-Lebutan Island.	4° 56.0′ S 122° 48.0′ E	**Fl.(2)W.** period 8s fl. 0.5s, ec. 2.5s fl. 0.5s, ec. 4.5s	66 **20**	12	White metal framework structure; 49.	
25329 *K 1551.6*	Pulau Butong.	5° 06.1′ S 122° 43.3′ E	**Fl.W.** period 3s fl. 0.6s, ec. 2.4s	49 **15**	12	White tower; 33.	
25330 *K 1551.8*	**Tg. Batu Sori.**	5° 20.9′ S 122° 39.3′ E	**Fl.W.** period 3s fl. 0.6s, ec. 2.4s	82 **25**	**15**	White beacon; 33.	**Radar reflector.**
25331 *K 1551.9*	P. Makasar.	5° 26.3′ S 122° 37.2′ E	**Fl.R.** period 3s fl. 0.6s, ec. 2.4s	36 **11**	6	Red pipe; 33.	
25332 *K 1552*	Baubau, extremity of E. side.	5° 27.2′ S 122° 36.6′ E	**Fl.W.** period 5s	39 **12**	12	White fiberglass tower; 33.	
25336 *K 1552.4*	-Oil Depot.	5° 28.6′ S 122° 35.1′ E	**Fl.W.** period 8s	33 **10**	12	White metal mast; 33.	
25340 *K 1552.6*	Tg. Bunabungi Pulau Kadatua.	5° 30.0′ S 122° 30.9′ E	**Fl.(3)W.** period 10s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 6.5s	49 **15**	12	White metal framework tower; 49.	

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			INDONESIA (HALMAHERA-SULAWESI (CELEBES)-ADJACENT ISLANDS)				
25342 *K 1554.4*	**Tg. Batu Toro.**	5° 41.8′ S 122° 47.9′ E	**Fl.W.** period 10s fl. 0.1s, ec. 9.9s	164 **50**	**24**	White beacon.	

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			INDONESIA SULAWESI (CELEBES)-ADJACENT ISLANDS				
25344 *K 1555*	Tanjung Kordoa.	5° 30.8′ S 122° 53.4′ E	**Fl.W.** period 4s fl. 0.5s, ec. 3.5s	66 **20**	10	White beacon.	
25346 *K 1555.8*	**Tg Kanolanatumbi.**	5° 16.5′ S 123° 13.3′ E	**Fl.W.** period 10s fl. 0.1s, ec. 9.9s	148 **45**	**23**	White concrete structure; 98.	
25348 *K 1558*	**Pulau Wangiwangi.**	5° 15.4′ S 123° 32.1′ E	**Fl.(2)W.** period 12s fl. 0.5s, ec. 3s fl. 0.5s, ec. 8s	493 **150**	**29**	White metal framework tower; 69.	Visible 012°-259°. Partially obscured by Pulau Kambodi 012°-036°.
25348.5 *K 1558.2*	-Midden.	5° 21.2′ S 123° 32.1′ E	**Fl.W.** period 3s fl. 0.5s, ec. 2.5s	59 **18**	11	White beacon.	

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			INDONESIA SULAWESI (CELEBES)-ADJACENT ISLANDS				
25349 *K 1558.3*	Pulau Tomea, Karang Waha.	5° 43.2′ S 123° 53.8′ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	39 **12**	12	White beacon.	
25349.5 *K 1558.32*	Ndaa.	5° 38.9′ S 124° 02.9′ E	**Iso.W.** period 2s	39 **12**	12	White tower; 33.	
25350 *K 1558.35*	Karang Koro Maha.	5° 46.0′ S 124° 11.0′ E	**Q.(6)+L.Fl.W.** period 15s	39 **12**	12	S. CARDINAL YB, beacon, topmark.	
25350.4 *K 1558.34*	**Pulau Binongko.**	6° 02.5′ S 124° 03.0′ E	**Fl.W.** period 10s fl. 0.1s, ec. 9.9s	147 **45**	**24**	White beacon.	
25351 *K 1558.33*	**Pulau Moromaho.**	6° 08.0′ S 124° 36.5′ E	**Fl.(4)W.** period 10s fl. 0.1s, ec. 2.2s fl. 0.1s, ec. 2.2s fl. 0.1s, ec. 2.2s fl. 0.1s, ec. 3s	147 **45**	**27**	White tower.	
25352 *K 1553*	-Siumpu, Popalia.	5° 41.3′ S 122° 27.7′ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	62 **19**	12	White metal framework tower; 62.	
25352.5 *K 1553.2*	**Pulau Batuata.**	6° 12.4′ S 122° 41.0′ E	**Fl.(2)W.** period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	472 **144**	**20**	White beacon.	
25353 *K 1554*	Tg Pising.	5° 03.6′ S 121° 54.0′ E	**Fl.(2)W.** period 6s fl. 0.8s, ec. 1.2s fl. 0.8s, ec. 3.2s	213 **65**	10	Beacon.	
25353.5 *K 1554.2*	-Sikeli.	5° 16.8′ S 121° 48.1′ E	**Fl.W.** period 3s fl. 0.6s, ec. 2.4s	39 **12**	10	Beacon.	
25354 *K 1554.1*	Pulau Sogori.	5° 23.3′ S 121° 43.8′ E	**Fl.(2)W.** period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	39 **12**	12	White beacon.	
25356 *K 1548*	Kolaka.	4° 03.3′ S 121° 34.0′ E	**Fl.(2)R.** period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	19 **6**	3	Red beacon; 20.	**Radar reflector.**
25360 *K 1547.9*	-Kolaka.	4° 03.2′ S 121° 36.0′ E	**Fl.W.** period 3s fl. 0.5s, ec. 2.5s	56 **17**	6	White concrete tower; 49.	**Radar reflector.**
25364 *K 1548.3*	-Bingkuka.	4° 04.0′ S 121° 33.8′ E	**Fl.G.** period 5s fl. 0.5s, ec. 4.5s	10 **3**	5	Green beacon; 20.	**Radar reflector.**
25368 *K 1548.5*	-Padamarang.	4° 02.8′ S 121° 23.3′ E	**Fl.R.** period 6s fl. 0.5s, ec. 5.5s	26 **8**	8	Red beacon; 20.	**Radar reflector.**
25370 *K 1548.6*	**-Lambasina Kecil.**	4° 04.5′ S 121° 19.0′ E	**Fl.(2)W.** period 8s fl. 0.5s, ec. 1s fl. 0.5s, ec. 6s	197 **60**	**15**	White beacon; 98.	
25370.5 *K 1548.65*	Karang Rosamari.	4° 05.5′ S 121° 08.5′ E	**Fl.(2)W.** period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	39 **12**	12	White beacon.	
25372 *K 1548.7*	-Lambasina Besar.	4° 04.2′ S 121° 21.3′ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	40 **12**	11	White beacon; 39.	**Radar reflector.**
25373 *K 1549*	Boeapinang.	4° 46.4′ S 121° 34.2′ E	**Fl.W.** period 3s fl. 0.5s, ec. 2.5s	39 **12**	10	White beacon.	

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			INDONESIA SULAWESI (CELEBES)-ADJACENT ISLANDS				
25373.5 *K 1548.9*	-SW.	4° 47.4′ S 121° 33.8′ E	**Fl.(2)G.** period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	23 **7**	6	STARBOARD (A) G, beacon, topmark.	
25373.6 *K 1548.91*	-E.	4° 47.4′ S 121° 33.8′ E	**Fl.(2)R.** period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	23 **7**	6	PORT (A) R, beacon, topmark.	
25374 *K 1553.5*	**Telaga Besar.**	5° 31.6′ S 122° 00.3′ E	**Fl.(2)W.** period 15s	138 **42**	**25**	White metal framework tower; 131.	
25376 *K 1566.3*	Pertamina.	0° 56.0′ S 122° 49.0′ E	**Fl.(4)W.** period 10s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 5s	36 **11**	12	White beacon; 33.	**Radar reflector.**
25378 *K 1568.4*	Pulau Bakakang.	1° 35.0′ S 123° 27.4′ E	**Fl.W.** period 3s fl. 0.5s, ec. 2.5s	39 **12**	12	Beacon.	
25379 *K 1568.5*	Pulau Kenau.	1° 46.4′ S 123° 31.7′ E	**Fl.W.** period 3s fl. 0.5s, ec. 2.5s	39 **12**	12	White beacon.	
25380 *K 1569*	**Buang Buang.**	2° 04.4′ S 123° 54.9′ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	92 **28**	**15**	White metal framework tower; 82.	
25384 *K 1569.5*	Pulau Seku.	2° 00.1′ S 124° 18.1′ E	**Fl.(2)W.** period 15s fl. 0.5s, ec. 2.5s fl. 0.5s, ec. 11.5s	197 **60**	14	White beacon.	
25386 *K 1541.6*	Tanjung Siwa.	3° 41.5′ S 120° 26.3′ E	**Fl.R.** period 4s fl. 0.5s, ec. 3.5s	26 **8**	10	PORT (A) R, beacon, topmark.	
25388 *K 1542*	Tanjung Jene.	3° 14.1′ S 120° 25.5′ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	49 **15**	12	White beacon; 66.	
25390 *K 1544*	Palopo.	2° 58.8′ S 120° 13.0′ E	**Fl.W.** period 3s fl. 0.5s, ec. 2.5s	46 **14**	12	White dwelling; 26.	
25400 *K 1545.6*	Bulu Pulu, W. end.	2° 48.6′ S 120° 56.9′ E	**Fl.W.** period 3s fl. 0.5s, ec. 2.5s	59 **18**	10	White beacon.	
25404 *K 1545*	-N. side.	2° 39.9′ S 121° 01.7′ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	33 **10**	5	White mast; 23.	
25406 *K 1547.5*	Batunon.	3° 17.3′ S 120° 57.5′ E	**Fl.W.** period 3s fl. 0.5s, ec. 2.5s	39 **12**	10	White beacon.	
25408 *K 1536*	**Pulau Pasitanete.**	5° 44.7′ S 120° 29.0′ E	**Fl.(4)W.** period 20s	213 **65**	**22**	White metal framework tower; 66.	Visible 021°-322°.
25411 *K 1532.5*	Bulukumba.	5° 32.8′ S 120° 12.5′ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	42 **13**	11	White beacon.	
25412 *K 1532*	**Bulukumba, Papanambeja Point.**	5° 34.0′ S 120° 11.4′ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	138 **42**	**18**	White metal framework tower; 79.	Visible 270°-051°.
25414 *K 1528*	**Tanjung Bulu Bulu.**	5° 42.1′ S 119° 46.6′ E	**Fl.W.** period 10s fl. 1s, ec. 9s	138 **42**	**18**	White metal framework tower; 131.	

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25416 *K 1524*	**Takarewataya (De Bril).**	6° 04.9′ S 118° 54.0′ E	**Fl.W.** period 10s	82 **25**	**22**	White octagonal metal tower, red stripes, three balconies; 75.	
	RACON		**D(– • •)**		5		Azimuth coverage 277°-190°. (3 & 10cm).
25416.5 *K 1325*	**Banawaja.**	6° 49.1′ S 119° 12.0′ E	**Fl.(2)W.** period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	105 **32**	**17**	White beacon.	
25416.6 *K 1325.3*	**Pulau Jailamu.**	6° 33.7′ S 118° 48.6′ E	**Fl.W.** period 5s fl. 0.7s, ec. 4.3s	52 **16**	**15**	White fiberglass beacon; 33.	**Radar reflector.**
25416.7 *K 1325.5*	**Pulau Longkoitang.**	6° 42.1′ S 118° 16.9′ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	105 **32**	**17**	White beacon.	
25417 *K 1537*	Pulau Pasi.	6° 06.0′ S 120° 25.9′ E	**Fl.G.** period 5s	43 **13**	10	Green beacon.	
25418 *K 1537.5*	Benteng.	6° 06.7′ S 120° 27.1′ E	**Fl.R.** period 4s fl. 0.5s, ec. 3.5s	26 **8**	10	PORT (A) R, beacon, topmark.	

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			INDONESIA SULAWESI (CELEBES)				
25420 *K 1522*	**Dewakang Besar.**	5° 24.0′ S 118° 26.1′ E	**Fl.W.** period 5s fl. 1s, ec. 4s	108 **33**	**15**	White metal framework tower; 98.	
25421 *K 1518.5*	**Pulau Tanakeke.**	5° 32.0′ S 119° 16.9′ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	80 **24**	**23**	White concrete tower; 66.	
25422 *K 1519*	-E.	5° 29.5′ S 119° 19.2′ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	49 **15**	9	White beacon.	
25423 *K 1523*	Pulau Bangkauluang.	5° 29.6′ S 118° 37.7′ E	**Fl.W.** period 5s fl. 1s, ec. 4s	49 **15**	12	White metal framework tower; 46.	
25424 *K 1518*	**Pulau Dayangdayangan.**	5° 23.9′ S 119° 11.0′ E	**Fl.W.** period 5s fl. 1s, ec. 4s	138 **42**	**19**	White metal framework tower; 98.	Visible 130°-120°.
	RACON		**A(• –)**				
25424.5 *K 1517.5*	Taka Gosseiya.	5° 22.0′ S 119° 00.0′ E	**Fl.W.** period 5s fl. 1s, ec. 4s	49 **15**	12	White beacon.	
25425 *K 1509*	Takabakang.	4° 57.8′ S 118° 33.1′ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	49 **15**	12	Beacon.	
	UJUNGPANDANG:						
25432 *K 1517*	**-Kudingareng Lompo.**	5° 09.1′ S 119° 15.6′ E	**Fl.(4)W.** period 27.5s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 19s	131 **40**	**16**	White metal framework tower; 131.	
	-RACON		**K(– • –)**				

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25436 *K 1511*	-Pulau Samalona.	5° 07.3′ S 119° 20.5′ E	**Fl.(2)W.** period 5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 2.5s	49 **15**	9	White beacon; 39.	**Radar reflector.**
25444 *K 1513*	-Entrance, N. side.	5° 07.1′ S 119° 23.9′ E	**Fl.R.** period 4s fl. 0.5s, ec. 3.5s	33 **10**	7	PORT (A) R, beacon, topmark.	
25448 *K 1514*	--S. side.	5° 07.1′ S 119° 23.7′ E	**Fl.G.** period 3s fl. 0.3s, ec. 2.7s	39 **12**	8	STARBOARD (A) G, beacon, topmark.	
25452 *K 1515*	**-Quay,** S. end.	5° 07.3′ S 119° 24.5′ E	**Fl.W.** period 3s fl. 1s, ec. 2s	105 **32**	**18**		
25458 *K 1510.5*	-Paotere.	5° 06.5′ S 119° 25.4′ E	**Fl.G.** period 5s fl. 0.5s, ec. 4.5s	26 **8**	10	STARBOARD (A) G, beacon, topmark.	
25460 *K 1510*	-Bone Panambungang.	4° 57.7′ S 119° 21.4′ E	**Fl.G.** period 4s fl. 0.5s, ec. 3.5s	49 **15**	9	White metal framework tower; 49.	
25461 *K 1508.5*	**Pulau Lanyukang.**	4° 58.9′ S 119° 04.5′ E	**Fl.W.** period 10s fl. 0.1s, ec. 9.9s	80 **24**	**24**	White beacon; 66.	
25464 *K 1509.5*	-Batu Bajangang.	4° 52.8′ S 119° 22.0′ E	**Fl.R.** period 3s fl. 0.3s, ec. 2.7s	49 **15**	9	White metal framework tower; 49.	
25468 *K 1508*	**Pulau Kapoposang.**	4° 42.0′ S 118° 57.0′ E	**Fl.W.** period 5s fl. 1s, ec. 4s	118 **36**	**16**	White metal framework tower; 108.	
	RACON		**X(– • • –)** period 30s		5		Azimuth coverage 328°-227°. (3cm).
25470 *K 1540*	Karang Limpogoh Selatan.	4° 56.3′ S 120° 45.2′ E	**Fl.W.** period 3s fl. 0.5s, ec. 2.5s	49 **15**	12	White beacon; 49.	
25470.5 *K 1540.9*	Bajowe.	4° 32.8′ S 120° 25.1′ E	**Fl.R.** period 4s fl. 0.5s, ec. 3.5s	26 **8**	10	PORT (A) R, beacon, topmark.	
25471 *K 1540.95*	-E.	4° 32.2′ S 120° 26.3′ E	**Fl.G.** period 3s fl. 0.5s, ec. 2.5s	23 **7**	10	STARBOARD (A) G, beacon, topmark.	
25472 *K 1541*	Totopela Reef.	4° 31.9′ S 120° 27.9′ E	**Fl.R.** period 4s fl. 0.5s, ec. 3.5s	26 **8**	8	Red beacon.	
25472.5 *K 1541.1*	Torea.	4° 30.4′ S 120° 27.4′ E	**Fl.G.** period 3s fl. 0.5s, ec. 2.5s	26 **8**	10	STARBOARD (A) G, beacon, topmark.	
25473 *K 1541.3*	**Tanjung Lameriki.**	4° 10.3′ S 120° 22.5′ E	**Fl.W.** period 10s fl. 0.1s, ec. 9.9s	112 **34**	**24**	White beacon; 98.	
25474 *K 1506.5*	Teluk Sido entrance, N.	4° 13.6′ S 119° 36.1′ E	**Fl.R.** period 4s fl. 0.5s, ec. 3.5s	26 **8**	8	Red beacon.	
25474.5 *K 1506.6*	-S.	4° 13.9′ S 119° 35.8′ E	**Fl.G.** period 3s fl. 0.5s, ec. 2.5s	26 **8**	8	Green beacon.	
25476 *K 1506*	Tg. Lero.	4° 02.8′ S 119° 35.8′ E	**Fl.R.** period 5s fl. 0.5s, ec. 4.5s	46 **14**	11	White metal framework tower; 26.	
	RACON		**M(– –)**				

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			INDONESIA SULAWESI (CELEBES)				
25482 *K 1507.5*	Pankamandra.	4° 16.8′ S 119° 17.2′ E	**Fl.W.** period 3s fl. 0.5s, ec. 2.5s	49 **15**	12	White beacon; 33.	
25485 *K 1500*	Polewali.	3° 26.4′ S 119° 20.4′ E	**Fl.W.** period 3s fl. 0.5s, ec. 2.5s	46 **14**	12		
25488 *K 1498*	Majene, pier, head.	3° 33.1′ S 118° 57.8′ E	**F.W.**	22 **7**	4	White metal framework tower; 20.	Shown until 2300.
25492 *K 1496*	**Tanjung Rangasa.**	3° 33.7′ S 118° 55.8′ E	**Fl.W.** period 5s fl. 1s, ec. 4s	344 **105**	**21**	White metal framework tower; 82.	Visible 258°-147°.
	RACON						
25494 *K 1494*	**Tg. Binanga.**	3° 20.3′ S 118° 50.7′ E	**Fl.W.** period 6s fl. 1s, ec. 5s	79 **24**	**18**	White beacon.	
25496 *K 1493*	Tg. Ongkone.	3° 05.6′ S 118° 46.6′ E	**Fl.W.** period 4s fl. 1s, ec. 3s	46 **14**	12	White beacon.	
25500 *K 1490*	**Tg. Rangas.**	2° 37.7′ S 118° 49.0′ E	**Fl.W.** period 6s fl. 1s, ec. 5s	322 **98**	**23**	White metal framework tower; 69.	Visible 030°-240° and 261°-272°.
	RACON		**Y(– • – –)**				(3 & 10cm).
25502 *K 1491*	**Tg. Kai.**	2° 51.8′ S 118° 46.2′ E	**Fl.W.** period 5s fl. 0.7s, ec. 4.3s	52 **16**	**15**	White fiberglass beacon; 33.	
25503 *K 1490.1*	Simboro Mamuju.	2° 40.4′ S 118° 52.1′ E	**Fl.G.** period 5s fl. 0.5s, ec. 4.5s	43 **13**	12	STARBOARD (A) G, beacon, topmark.	
25503.5 *K 1490.15*	-S.	2° 40.6′ S 118° 52.2′ E	**Fl.W.** period 3s fl. 0.5s, ec. 2.5s	49 **15**	12	White beacon.	
25503.6 *K 1489.2*	Belangbelang.	2° 28.8′ S 119° 06.8′ E	**Fl.G.** period 5s fl. 0.5s, ec. 4.5s	23 **7**	10	STARBOARD (A) G, beacon, topmark.	
25503.65 *K 1489.1*	-NE.	2° 28.6′ S 119° 07.1′ E	**Fl.R.** period 4s fl. 0.5s, ec. 3.5s	23 **7**	10	PORT (A) R, beacon, topmark.	
25503.7 *K 1489*	-E.	2° 28.6′ S 119° 07.3′ E	**Fl.R.** period 4s fl. 0.5s, ec. 3.5s	23 **7**	10	PORT (A) R, beacon, topmark.	
25503.8 *K 1485*	Tanjung Lalereh.	1° 59.9′ S 119° 12.7′ E	**Fl.W.** period 5s fl. 1s, ec. 4s	138 **42**	12	White beacon.	
25504 *K 1484*	**Tanjung Pasaugkajoe.**	1° 10.3′ S 119° 20.4′ E	**Fl.(3)W.** period 24s fl. 1s, ec. 4s fl. 1s, ec. 4s fl. 1s, ec. 13s	184 **56**	**20**	White metal framework tower; 131.	
25508 *K 1476*	**Teluk Palu.**	0° 38.9′ S 119° 43.8′ E	**L.Fl.(4)W.** period 25s fl. 2s, ec. 3s fl. 2s, ec. 3s fl. 2s, ec. 3s fl. 2s, ec. 8s	269 **82**	**23**	White metal framework tower; 69.	The beacon on the pierhead and Coast reef will show F.R. only when vessel is expected.
25510 *K 1478*	Donggala, pier, head.	0° 39.9′ S 119° 44.6′ E	**Fl.W.** period 3s fl. 0.5s, ec. 2.5s	43 **13**	12	Beacon, triangular daymark point up.	On request.

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			INDONESIA SULAWESI (CELEBES)				
25512 *K 1480*	-Panteluan.	0° 42.6′ S 119° 51.2′ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	59 **18**	12	White beacon; 49.	
25516 *K 1482.5*	Loli Qgeh.	0° 47.4′ S 119° 48.1′ E	**Iso.W.** period 8s	39 **12**	10	White beacon.	
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			INDONESIA (LESSER SUNDA ISLANDS)				
	BALI:						
25520 *K 1291.4*	**-Bukit Badung.**	8° 49.3′ S 115° 08.7′ E	**Fl.(3)W.** period 20s fl. 0.2s, ec. 3.7s fl. 0.2s, ec. 3.7s fl. 0.2s, ec. 12s	722 **220**	**25**	White metal tower; 13.	4 F.R. about 2 miles E.
25521 *K 1291.3*	**-Kelan Port.**	8° 45.4′ S 115° 10.1′ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	72 **22**	**18**	White lighthouse; 66.	**Radar reflector.**
25522 *K 1291.6*	**-Tanjung Mebulu.**	8° 49.4′ S 115° 05.2′ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	263 **80**	**15**	White beacon.	
25524 *K 1291*	**-Benoa Harbor.**	8° 44.8′ S 115° 12.7′ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	101 **31**	**16**	White metal framework structure; 82.	
25525 *K 1291.29*	--No 9.	8° 44.9′ S 115° 12.9′ E	**Fl.G.** period 5s fl. 0.5s, ec. 4.5s	30 **9**	4	Green metal framework tower, piles; 20.	
25525.1 *K 1291.27*	--No 7.	8° 45.0′ S 115° 13.2′ E	**Fl.G.** period 3s fl. 0.5s, ec. 2.5s	21 **6**	4	Green metal framework tower, piles; 20.	
25525.2 *K 1291.25*	--No 5.	8° 45.1′ S 115° 13.4′ E	**Fl.G.** period 5s fl. 0.5s, ec. 4.5s	21 **6**	4	Green metal framework tower, piles; 20.	
25526 *K 1291.2*	--Range, front.	8° 45.5′ S 115° 13.6′ E	**Iso.W.** period 4s	21 **6**	8	White beacon, white triangular daymark point up.	
25526.1 *K 1291.21*	---Rear, 590 meters 255°30′ from front.	8° 45.5′ S 115° 13.3′ E	**Iso.W.** period 6s	46 **14**	**19**	White metal framework tower, piles, black triangular daymark point down.	
25528 *K 1290*	-Tanjung Serangan.	8° 43.2′ S 115° 15.5′ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	39 **12**	12	White metal framework structure; 33.	
25532 *K 1287*	**-Tanjung Sari.**	8° 31.7′ S 115° 30.8′ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	148 **45**	**15**	White beacon; 23.	
25536 *K 1289*	--Teluk Padang Range, front.	8° 31.7′ S 115° 30.3′ E	**Iso.W.** period 2s	43 **13**	12	Beacon, white triangular daymark point up; 30.	Fl.G. 3s and Fl.R. 4s mark entrance. **Radar reflector.**
25536.1 *K 1289.1*	---Rear, 430 meters 306°30′ from front.	8° 31.6′ S 115° 30.3′ E	**Iso.W.** period 8s	66 **20**	12	Beacon, white triangular daymark point down; 33.	
25538 *K 1286*	**-Pulau Gilitepekong.**	8° 31.9′ S 115° 35.1′ E	**Fl.W.** period 6s fl. 0.5s, ec. 5.5s	213 **65**	**18**	White metal framework tower.	
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			INDONESIA (LESSER SUNDA ISLANDS)				
25540 *K 1285*	**-Gili Selang.**	8° 23.9′ S 115° 42.3′ E	**Fl.(3)W.** period 20s fl. 1s, ec. 2s fl. 1s, ec. 2s fl. 1s, ec. 13s	230 **70**	**19**	White metal framework tower.	
25541 *K 1284.2*	-Tg. Bungkulan.	8° 03.8′ S 115° 11.1′ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	108 **33**	12	White metal framework tower, black stripes; 66.	
25542 *K 1284*	-Buleleng, E. of river entrance.	8° 06.1′ S 115° 05.7′ E	**Fl.W.** period 3s fl. 1s, ec. 2s	82 **25**	13	White metal framework tower, black stripes; 66.	Visible 071°-227°.
25543 *K 1283.5*	-Beacon 1M.	8° 11.3′ S 114° 50.1′ E	**Fl.(2)W.** period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	19 **6**	6	ISOLATED DANGER BRB, beacon, topmark.	
25544 *K 1283*	-Celukanbawang.	8° 11.0′ S 114° 50.0′ E	**Fl.R.** period 6s fl. 0.5s, ec. 5.5s	36 **11**	4	Red beacon; 36.	
25545 *K 1283.7*	--Harbor.	8° 11.4′ S 114° 49.9′ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	105 **32**	12	White metal framework structure; 98.	
25546 *K 1292*	**Nusa Lembongan, Tanjung Taal.**	8° 39.8′ S 115° 27.1′ E	**Fl.(3)W.** period 15s fl. 1s, ec. 3s fl. 1s, ec. 3s fl. 1s, ec. 6s	88 **27**	**16**	White metal framework tower; 82.	Visible 053°-256°.
25548 *K 1294*	**Nusa Penida.**	8° 49.0′ S 115° 35.5′ E	**Fl.(3)W.** period 15s	682 **208**	**25**	White metal framework tower; 66.	
	LOMBOK:						
25551 *K 1294.5*	**-Tg Agaragar.**	8° 12.8′ S 116° 21.9′ E	**Fl.W.** period 5.5s fl. 0.5s, ec. 5s	115 **35**	**18**	White beacon.	
25552 *K 1296*	**-Ampenan.**	8° 34.0′ S 116° 04.3′ E	**Fl.(3)W.** period 45s fl. 1s, ec. 9s fl. 1s, ec. 9s fl. 1s, ec. 24s	105 **32**	**16**	White metal framework tower; 98.	
25554 *K 1295*	**Trewangan.**	8° 20.7′ S 116° 01.8′ E	**Fl.(2)W.** period 10s fl. 1s, ec. 2s fl. 1s, ec. 6s	141 **43**	**19**	White metal framework tower; 131.	
	RACON		**T(–)**				(3 & 10cm).
25555 *K 1294.9*	Pulau Meno.	8° 20.6′ S 116° 03.3′ E	**Fl.Y.** period 3s fl. 0.5s, ec. 2.5s	36 **11**	6	SPECIAL Y, beacon, "X" topmark.	
25555.5 *K 1294.8*	Pulau Aer.	8° 21.8′ S 116° 04.8′ E	**Fl.Y.** period 4s fl. 0.5s, ec. 3.5s	36 **11**	6	SPECIAL Y, beacon, "X" topmark.	
25560 *K 1298*	Lembar Harbor.	8° 43.6′ S 116° 03.8′ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	210 **64**	11	White metal framework structure; 43.	
25564 *K 1298.4*	-Kramat.	8° 44.4′ S 116° 03.7′ E	**Fl.R.** period 3s	59 **18**	12	PORT (A) R, beacon, topmark; 49.	**Radar reflector.**
25565 *K 1298.3*	-Lembar.	8° 44.2′ S 116° 03.9′ E	**Fl.G.** period 3s fl. 0.5s, ec. 2.5s	43 **13**	12	STARBOARD (A) G, beacon, topmark; 26.	**Radar reflector.**

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			INDONESIA (LESSER SUNDA ISLANDS)				
25565.5 *K 1298.35*	--SW.	8° 44.2′ S 116° 03.9′ E	**Fl.R.** period 4s fl. 0.5s, ec. 3.5s	59 **18**	12	PORT (A) R, beacon, topmark; 49.	**Radar reflector.**
25568 *K 1297*	-Labuan Tring Bay.	8° 43.5′ S 116° 02.9′ E	**Fl.W.** period 3s fl. 0.5s, ec. 2.5s	171 **52**	10	Green beacon; 39.	
25569 *K 1299.5*	Tanjung Mangkun.	9° 00.1′ S 116° 44.0′ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	95 **29**	12	White beacon.	
25570 *K 1299*	Tanjung Pandanan, S.	8° 45.1′ S 115° 49.5′ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	213 **65**	12	White metal framework structure; 33.	
25571 *K 1296.7*	Pulau Gilipoh.	8° 42.5′ S 115° 58.5′ E	**Q.(2)W.** period 5s	52 **16**	12	White beacon.	
25571.5 *K 1299.3*	Tanjung Bungkulan.	8° 57.1′ S 116° 23.4′ E	**Fl.W.** period 5s fl. 1s, ec. 4s	312 **95**	12	White beacon.	
25572 *K 1300*	**-Tanjung Ringgit.**	8° 51.7′ S 116° 35.2′ E	**Fl.(2)W.** period 10s	361 **110**	**27**	White metal framework tower; 131.	
25572.7 *K 1299.56*	Tg. Maloh.	8° 53.6′ S 116° 43.9′ E	**Fl.W.** period 7s fl. 1s, ec. 6s	413 **126**	12	White beacon.	
25572.8 *K 1299.57*	Benete Range, front.	8° 53.9′ S 116° 44.9′ E	**Q.W.**	43 **13**	6	Beacon, white triangular daymark point up.	
25572.81 *K 1299.571*	-Rear, 127° from front.	8° 54.0′ S 116° 45.1′ E	**Iso.W.** period 4s	52 **16**	6	Beacon, white triangular daymark point down.	
25573 *K 1300.2*	Gili Lebur.	8° 29.1′ S 116° 41.2′ E	**Q.W.**	33 **10**	9	N. CARDINAL BY, beacon, topmark.	
25573.2 *K 1300.3*	-Reef, W. end.	8° 29.0′ S 116° 40.6′ E	**Fl.R.** period 2s fl. 0.5s, ec. 1.5s	20 **6**	7	Red beacon.	
25573.3 *K 1300.4*	Karang.	8° 29.1′ S 116° 40.6′ E	**Fl.R.** period 4s fl. 0.5s, ec. 3.5s	26 **8**	5	Red beacon.	
25573.4 *K 1300.35*	Ujung Karang Labuhan Lombok.	8° 29.0′ S 116° 40.4′ E	**Fl.G.** period 3s fl. 0.5s, ec. 2.5s	16 **5**	5	Green beacon.	
25573.5 *K 1300.1*	Teluk Lombok.	8° 29.1′ S 116° 40.1′ E	**Fl.W.** period 3s fl. 0.5s, ec. 2.5s	46 **14**	10	White structure.	
25574 *K 1305*	Pulau Ular.	8° 30.0′ S 116° 49.2′ E	**Q.(2)W.** period 5s fl. 0.5s, ec. 0.5s fl. 0.5s, ec. 3.5s	161 **49**	10	Black beacon, red bands.	
25574.4 *K 1306*	Tanjung Tano.	8° 30.9′ S 116° 49.9′ E	**Fl.G.** period 3s fl. 0.5s, ec. 2.5s	46 **14**	9	Green beacon.	
25576 *K 1301*	Gili Petagan, SE. side of the coast reef.	8° 26.1′ S 116° 45.4′ E	**Fl.W.** period 3s fl. 0.5s, ec. 2.5s	49 **15**	12	White metal beacon; 49.	Visible 173°-104°. Obscured by the islands to the NW. of Sumbawa.
25578 *K 1322*	**Pulau Kapoposangbali.**	7° 29.7′ S 117° 10.8′ E	**Fl.W.** period 10s fl. 1s, ec. 9s	112 **34**	**24**	White beacon; 98.	
25580 *K 1303*	**Gosong Sakunci.**	7° 51.1′ S 117° 12.3′ E	**Fl.W.** period 4s fl. 0.5s, ec. 3.5s	56 **17**	**15**	White metal framework tower; 49.	

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			INDONESIA (LESSER SUNDA ISLANDS)				
25584 *K 1304*	**Pulau Medang.**	8° 07.9′ S 117° 23.3′ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	164 **50**	**19**	White metal framework tower; 98.	
25584.5 *K 1323*	Karang Satunggul.	7° 32.4′ S 117° 59.4′ E	**Q.W.**	49 **15**	12	White beacon.	
25585 *K 1324*	Pelokang.	7° 10.5′ S 118° 24.5′ E	**Q.W.**	42 **13**	11	White beacon.	
25586 *K 1324.5*	Sarege.	7° 04.8′ S 118° 39.8′ E	**Fl.(3)W.** period 15s fl. 0.5s, ec. 1s fl. 0.5s, ec. 2s fl. 0.5s, ec. 10.5s	42 **13**	11	W. CARDINAL YBY, tower, topmark; 39.	
25588 *K 1309*	-Tanjung Lampasapi.	8° 23.4′ S 118° 42.2′ E	**Fl.R.** period 6s fl. 0.6s, ec. 5.4s	49 **15**	6	Red framework tower; 49.	**Radar reflector.**
25592	Amoe.	8° 23.8′ S 118° 41.8′ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	49 **15**			
25593 *K 1310.6*	N. Amoe.	8° 23.8′ S 118° 41.7′ E	**Fl.G.** period 5s fl. 0.5s, ec. 4.5s	49 **15**	11	Green beacon.	
25594 *K 1310.4*	S. Amoe.	8° 24.5′ S 118° 41.7′ E	**Fl.R.** period 4s fl. 0.5s, ec. 3.5s	39 **12**	10	Red beacon.	
25596 *K 1310.2*	-Soembai.	8° 24.7′ S 118° 41.4′ E	**Fl.G.** period 3s fl. 0.5s, ec. 2.5s	49 **15**	12	Green beacon.	
25602 *K 1308.4*	Tg. Pakijongan.	8° 05.2′ S 117° 55.4′ E	**Fl.W.** period 6s fl. 0.5s, ec. 5.5s	115 **35**	12	White beacon.	
25602.5 *K 1304.4*	Tg. Kolo.	8° 20.1′ S 117° 28.0′ E	**Fl.Y.** period 4s fl. 0.5s, ec. 3.5s	98 **30**	6	SPECIAL Y, beacon,“X” topmark.	
25602.7 *K 1304.6*	Tg. Ai Lancong.	8° 19.5′ S 117° 33.8′ E	**Fl.Y.** period 3s fl. 0.5s, ec. 2.5s	46 **14**	6	SPECIAL Y, beacon,“X” topmark.	
25603 *K 1308.1*	Badas, entrance.	8° 27.7′ S 117° 22.3′ E	**Fl.G.** period 3s fl. 0.5s, ec. 2.5s	43 **13**	12	STARBOARD (A) G, beacon, topmark.	
25604 *K 1307.3*	Sumbawa Bay, Badas.	8° 28.0′ S 117° 22.3′ E	**Fl.(2)W.** period 5s	33 **10**	12		
25605 *K 1307.5*	Badas.	8° 28.1′ S 117° 22.2′ E	**Fl.W.** period 2s fl. 0.5s, ec. 1.5s	39 **12**	10	White metal framework tower; 26.	
25606 *K 1308.5*	**Batu Besar.**	8° 14.5′ S 118° 29.7′ E	**Fl.W.** period 10s fl. 0.9s, ec. 9.1s	82 **25**	**22**	White lighthouse.	
25608 *K 1310*	-Bima.	8° 26.9′ S 118° 42.8′ E	**Fl.W.** period 6s fl. 0.5s, ec. 5.5s	108 **33**	12	White beacon.	
25610 *K 1309.5*	Lawata.	8° 28.5′ S 118° 42.4′ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	33 **10**	11	White beacon.	
25613 *K 1310.7*	**Sangeang Island.**	8° 07.8′ S 119° 04.9′ E	**Fl.W.** period 10s fl. 0.9s, ec. 9.1s	69 **21**	**22**	White beacon.	
25614 *K 1310.8*	**Tg. Naru.**	8° 18.8′ S 119° 00.3′ E	**Fl.(2)W.** period 15s	144 **44**	**18**	White metal framework tower; 131.	

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			INDONESIA (LESSER SUNDA ISLANDS)				
25616 *K 1311*	Toronaganuri.	8° 33.9′ S 119° 01.2′ E	**Fl.W.** period 3s fl. 0.5s, ec. 2.5s	197 **60**	12	White metal framework tower; 49.	Visible 196°-271°.
25617 *K 1311.2*	Nisa Sanai.	8° 33.5′ S 119° 02.4′ E	**Fl.R.** period 4s fl. 1s, ec. 3s	46 **14**	10	Red beacon.	
25618 *K 1311.5*	Bajo.	8° 34.4′ S 119° 01.2′ E	**Fl.W.** period 4s fl. 0.5s, ec. 3.5s	39 **12**	10	White beacon.	
25620 *K 1312*	**-Pulau Kelapa** Range, front.	8° 39.8′ S 119° 13.6′ E	**Fl.W.** period 2s	456 **139**	**20**	White framework tower; 13.	Visible 167°-177°.
25624 *K 1312.1*	--Rear, 242 meters 172° from front.	8° 40.1′ S 119° 13.6′ E	**Fl.W.** period 11s	489 **149**	**18**	White metal framework tower; 66.	
25626 *K 1315*	**Pulau Komodo.**	8° 43.8′ S 119° 23.0′ E	**Q.(2)W.** period 5s	230 **70**	**22**	White beacon.	
25628 *K 1314*	**-Toro Jampang.**	8° 44.8′ S 118° 58.2′ E	**Fl.(2)W.** period 15s fl. 1s, ec. 3s fl. 1s, ec. 10s	312 **95**	**22**		
	FLORES:						
25628.3 *K 1315.5*	-Pulau Gililawa Laut.	8° 26.6′ S 119° 34.8′ E	**Fl.W.** period 3s fl. 0.5s, ec. 2.5s	98 **30**	10	White beacon.	
25628.5 *K 1329*	-Sabolan Kecil.	8° 23.5′ S 119° 47.9′ E	**Fl.W.** period 1.5s fl. 0.5s, ec. 1s	92 **28**	11	White beacon.	
25629 *K 1329.5*	**-Toro Besi.**	8° 13.9′ S 120° 25.4′ E	**Fl.W.** period 3s fl. 0.5s, ec. 2.5s	98 **30**	**15**	White metal framework structure; 98.	
25629.2 *K 1330*	-Reo.	8° 16.6′ S 120° 27.1′ E	**Fl.W.** period 3s fl. 0.5s, ec. 2.5s	39 **12**	10	White framework tower; 36.	
25629.4 *K 1330.2*	--Oil depot.	8° 16.7′ S 120° 27.1′ E	**Fl.W.** period 3s fl. 0.5s, ec. 2.5s	52 **16**	10	White beacon.	
25629.7 *K 1330.4*	-Mborong.	8° 48.3′ S 120° 36.1′ E	**Fl.W.** period 1.5s fl. 0.5s, ec. 1s	39 **12**	11	White beacon.	
25630 *K 1331.5*	-Marapoko.	8° 31.6′ S 121° 19.1′ E	**Fl.(3)W.** period 3s fl. 0.5s, ec. 2.5s	39 **12**	12	White beacon.	
25631 *K 1332*	**-Tg. Karterbileh.**	8° 28.3′ S 121° 37.8′ E	**Fl.W.** period 3s fl. 0.5s, ec. 2.5s	417 **127**	**27**	White beacon.	
25632 *K 1337*	-Ende.	8° 50.7′ S 121° 38.7′ E	**Fl.W.** period 3s	141 **43**	14	White metal framework tower; 33.	
25638 *K 1338*	-Appi.	8° 50.8′ S 121° 40.2′ E	**Q.(4)W.** period 8s	36 **11**	8	White beacon; 26.	
25639 *K 1334.5*	-Gosong Unjuran.	8° 28.7′ S 122° 08.7′ E	**Fl.G.** period 5s	49 **15**	12	Green beacon.	**Radar reflector.**
25639.3 *K 1335*	**Teluk Maumere.**	8° 37.5′ S 122° 13.3′ E	**Fl.(3)W.** period 20s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 15.5s	361 **110**	**25**	White metal framework structure; 131.	

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			INDONESIA (LESSER SUNDA ISLANDS)				
25639.5 *K 1334*	-Gosong Boni.	8° 23.4′ S 122° 14.0′ E	**Fl.R.** period 6s fl. 0.5s, ec. 5.5s	46 **14**	12	Red beacon.	
25640 *K 1340*	-Larantuka.	8° 20.6′ S 122° 59.4′ E	**Fl.W.** period 4s fl. 0.5s, ec. 3.5s	56 **17**	11	White metal framework; 36.	
25642 *K 1339*	Nusa Lobetobi.	8° 36.2′ S 122° 50.7′ E	**Q.W.**	148 **45**	9	White metal framework tower; 49.	
25643 *K 1339.5*	**Tg. Lawawolo.**	8° 36.5′ S 122° 53.6′ E	**Q.W.**	75 **23**	**15**	White beacon.	
25644 *K 1340.5*	--NE.	8° 20.5′ S 122° 59.5′ E	**Fl.W.** period 3s	33 **10**	10		
25648 *K 1341*	Tanjuns Sarbete.	8° 19.2′ S 123° 01.1′ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	105 **32**	12	White metal framework structure; 98.	
25650 *K 1341.6*	Tanjung Mas.	8° 09.0′ S 123° 01.4′ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	131 **40**	12	White metal framework tower; 49.	
25651 *K 1343*	**Kawula.**	8° 13.3′ S 123° 41.9′ E	**Fl.W.** period 4s fl. 0.3s, ec. 3.7s	170 **52**	**18**	White metal framework tower; 98.	
25651.5 *K 1343.5*	Pulau Lapan.	8° 13.1′ S 124° 01.9′ E	**Fl.(2)W.** period 15s fl. 0.5s, ec. 2.5s fl. 0.5s, ec. 11.5s	111 **34**	10	White metal framework tower; 98.	
25651.6 *K 1343.7*	Blang Merang Bay.	8° 21.6′ S 124° 05.8′ E	**Fl.W.** period 2s fl. 0.8s, ec. 1.2s	46 **14**	12	White beacon.	
25651.7 *K 1342.5*	Tg. Tuak.	8° 18.4′ S 123° 20.9′ E	**Fl.W.** period 4s fl. 0.3s, ec. 3.7s	42 **13**	12	White beacon.	
25652 *K 1342*	Pulau Adonara, outer of wharf near Waiwerang village.	8° 23.5′ S 123° 09.9′ E	**Fl.(3)W.** period 15s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 9.5s	59 **18**	8	White metal structure; 16.	
25653 *K 1318*	**Tanjung Sasar.**	9° 16.9′ S 119° 56.3′ E	**Fl.(3)W.** period 22s fl. 0.5s, ec. 3.5s fl. 0.5s, ec. 3.5s fl. 0.5s, ec. 13.5s	279 **85**	**24**	White metal framework tower; 131.	
25653.1 *K 1318.7*	Waikelo.	9° 23.6′ S 119° 12.9′ E	**Fl.W.** period 2s fl. 0.3s, ec. 1.7s	46 **14**	12	White beacon.	
25653.2 *K 1321.5*	Tg. Karaso.	9° 33.4′ S 118° 55.9′ E	**L.Fl.W.** period 8s fl. 2s, ec. 6s	49 **15**	12	White beacon.	
25653.5 *K 1317*	-**Tg Umdu.**	10° 05.1′ S 120° 49.0′ E	**Fl.(3)W.** period 20s	138 **42**	**17**	White metal framework tower; 131.	
25656 *K 1321*	Pulau Mangudu.	10° 20.0′ S 120° 06.4′ E	**L.Fl.W.** period 5s fl. 2s, ec. 3s	49 **15**	12	White beacon.	
25658 *K 1319*	Waingapu Reef.	9° 37.3′ S 120° 15.5′ E	**Fl.R.** period 3s fl. 0.5s, ec. 2.5s	23 **7**	6	PORT (A) R, beacon, topmark.	
25658.1 *K 1319.2*	Sumba, Waingapu.	9° 38.0′ S 120° 15.4′ E	**Fl.G.** period 5.2s fl. 0.7s, ec. 4.5s	23 **7**	6	STARBOARD (A) G, tower, topmark; 16.	

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25658.2 *K 1319.4*	--Approach E. side.	9° 38.1′ S 120° 15.6′ E	**Fl.R.** period 6s fl. 0.6s, ec. 5.4s	23 **7**	6	PORT (A) R, tower, topmark; 16.	
25660 *K 1320.2*	-Maingapoe.	9° 37.6′ S 120° 15.5′ E	**Fl.W.** period 7s fl. 1s, ec. 6s	39 **12**	10	White metal framework tower; 30.	
25661.3 *K 1326*	Karang Nambolaki.	6° 41.7′ S 120° 16.9′ E	**Fl.W.** period 10s	39 **12**	11	White beacon.	
25662 *K 1327*	Pulau Kayuadi.	6° 46.8′ S 120° 47.6′ E	**Fl.(2)W.** period 30s fl. 1s, ec. 2s fl. 1s, ec. 26s	43 **13**	11	White beacon.	
25662.1 *K 1327.1*	Pulau Latondu Kecil.	6° 31.5′ S 120° 57.2′ E	**Fl.Y.** period 4s fl. 0.5s, ec. 3.5s	36 **11**	6	SPECIAL Y, beacon, "X" topmark.	
25662.2 *K 1327.2*	**Palau Belangbelang.**	6° 24.3′ S 121° 06.0′ E	**Fl.W.** period 5s fl. 0.7s, ec. 4.3s	52 **16**	**15**	White fiberglass beacon; 33.	
25662.5 *K 1327.5*	Ujung Perumang.	7° 08.1′ S 120° 45.9′ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	36 **11**	12	White beacon.	
25663 *K 1328*	**Bone Rate Island.**	7° 22.9′ S 121° 05.0′ E	**Fl.(3)W.** period 10s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 5s	210 **64**	**20**	White metal framework tower; 82.	
25664 *K 1327.7*	Pulau Raja.	7° 05.3′ S 121° 07.2′ E	**Fl.W.** period 2s fl. 0.5s, ec. 1.5s	39 **12**	12	White beacon.	
25664.5 *K 1327.3*	Pulau Ampalasa.	6° 54.8′ S 121° 17.0′ E	**Fl.Y.** period 3s fl. 0.5s, ec. 2.5s	36 **11**	6	SPECIAL Y, beacon, "X" topmark.	
25665 *K 1327.8*	Karang Sangi Sangiang.	7° 07.4′ S 121° 26.7′ E	**L.Fl.W.** period 11s fl. 2s, ec. 9s	39 **12**	11	White beacon.	
25666 *K 1328.5*	Pulau Kakabia.	6° 54.5′ S 122° 13.0′ E	**Fl.W.** period 2s fl. 0.5s, ec. 1.5s	36 **11**	12	White fiberglass tower; 33.	
25668 *K 1328.7*	Pulau Kaunadi.	7° 25.7′ S 122° 05.5′ E	**Fl.W.** period 2s fl. 0.5s, ec. 1.5s	39 **12**	11	White beacon.	
	PULAU SAWU:						
25672 *K 1350*	**-Kali Menia.**	10° 26.4′ S 121° 52.3′ E	**Fl.(3)W.** period 10s fl. 1s, ec. 2s fl. 1s, ec. 2s fl. 1s, ec. 3s	108 **33**	**20**	White stone pyramid; 33.	Visible 052°-243°, obscured in places 052°-060°.
25676 *K 1352*	**-Seba.**	10° 29.7′ S 121° 50.5′ E	**Fl.W.** period 6s fl. 1s, ec. 5s	141 **43**	**19**	White metal framework tower; 131	Visible 062°-189°.
25676.2 *K 1352.5*	**-Tanjung Liegeta.**	10° 32.5′ S 121° 58.9′ E	**Fl.W.** period 7s fl. 0.5s, ec. 6.5s	377 **115**	**26**	White metal framework structure; 131.	
25677 *K 1353*	Pulau Raijua, NW. coast.	10° 36.2′ S 121° 37.4′ E	**Fl.W.** period 1.5s fl. 0.2s, ec. 1.3s	46 **14**	12	White beacon.	

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25678 *K 1354*	**Ria Jua.**	10° 37.9′ S 121° 31.9′ E	**Fl.(2)W.** period 16s fl. 0.5s, ec. 5s fl. 0.5s, ec. 10s	220 **67**	**19**	White beacon.	
25680 *K 1356*	**Pulau Roti.**	10° 43.6′ S 123° 02.8′ E	**Fl.(2)W.** period 12s fl. 1.5s, ec. 2s fl. 1.5s, ec. 7s	154 **47**	**19**	Concrete tower; 148.	Visible 090°-211°. A F.W. light is shown at the head of the pier when ships are expected.
25681 *K 1358*	-Tanjung Pukuatu.	10° 25.9′ S 123° 22.8′ E	**Fl.(2)W.** period 5.4s fl. 0.7s, ec. 1s fl. 0.7s, ec. 3s	43 **13**	12	White beacon.	
25682 *K 1365.5*	Tanjung Oisina.	10° 21.3′ S 123° 27.4′ E	**Fl.W.** period 4s fl. 0.5s, ec. 3.5s	66 **20**	12	White beacon; 33.	
25684 *K 1360*	**Tanjung Kurong.**	10° 07.5′ S 123° 26.7′ E	**Oc.(2)W.** period 30s	417 **127**	**27**	White metal framework structure; 52.	Visible 046°-293°.
	RACON		**B(– • • •)**				
25686 *K 1360.5*	-Pulau Kera.	10° 05.3′ S 123° 33.2′ E	**Iso.W.** period 2s	43 **13**	11	White fiberglass tower.	
	TIMOR:						
25688 *K 1362*	-**Kupang, Fort Concordia.**	10° 09.7′ S 123° 34.5′ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	95 **29**	**15**	White metal framework tower; 49.	Obscured in bay by Kera Island.
25692	--Pier, head.	10° 09.7′ S 123° 34.5′ E	**F.G.**		8	Wooden post.	Shown May to October. Occasional.
25700 *K 1365*	**-Tenau.**	10° 11.4′ S 123° 31.8′ E	**Fl.W.** period 3s fl. 1s, ec. 2s	144 **44**	**15**	Fiberglass tower; 33.	
25702 *K 1365.7*	**-Oekusi.**	9° 11.3′ S 124° 23.5′ E	**Fl.W.** period 4s fl. 0.5s, ec. 3.5s	102 **31**	**16**	White tower.	
25703 *K 1365.8*	-Batu Putih.	9° 03.2′ S 124° 42.5′ E	**Fl.W.** period 3.5s fl. 1s, ec. 2.5s	66 **20**	12	White metal framework tower; 52.	
25704 *K 1366*	-Atapupu.	8° 59.5′ S 124° 51.9′ E	**Fl.W.** period 4s fl. 0.5s, ec. 3.5s	52 **16**	10	White beacon.	
25705 *K 1366.2*	---Entrance, NW.	8° 59.3′ S 124° 51.5′ E	**Fl.G.** period 5s fl. 0.5s, ec. 4.5s	46 **14**	10	Green beacon.	**Radar reflector.**
25705.5 *K 1366.4*	---SE.	8° 59.4′ S 124° 51.6′ E	**Fl.R.** period 6s fl. 0.5s, ec. 5.5s	46 **14**	12	Red beacon.	
25708 *K 1368*	-Dili Harbor.	8° 32.9′ S 125° 34.1′ E	**Fl.W.** period 6s	62 **19**	12	Metal framework tower on white stone base, blue bands; 56.	
25708.5 *K 1369*	-Harbor.	8° 33.2′ S 125° 34.7′ E	**Fl.R.** period 4s		6	Metal framework tower, two white triangular daymarks points together.	
25709 *K 1368.2*	-Beacon.	8° 32.7′ S 125° 34.3′ E	**Fl.R.** period 4s fl. 0.5s, ec. 3.5s	39 **12**	12	Red beacon.	
25709.5 *K 1368.3*	--W.	8° 32.8′ S 125° 34.2′ E	**Fl.G.** period 5s	39 **12**	10	Green beacon.	**Radar reflector.**

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			INDONESIA (LESSER SUNDA ISLANDS)				
25709.7 *K 1369.5*	-Oil Depot.	8° 32.6′ S 125° 32.9′ E	**Fl.(4)W.** period 8s	33 **10**		White concrete structure.	
25709.8 *K 1369.6*	--NW.	8° 32.5′ S 125° 32.3′ E	**Fl.W.** period 3s fl. 0.5s, ec. 2.5s	52 **16**	10	White beacon.	
25710 *K 1347*	**Laisumbu.**	8° 19.2′ S 125° 08.2′ E	**Fl.(2)W.** period 28s fl. 1s, ec. 6s fl. 1s, ec. 20s	197 **60**	**29**	Lighthouse; 131.	
25711 *K 1347.5*	**Tg. Babi.**	8° 08.6′ S 124° 57.7′ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	85 **26**	**15**	White metal framework tower.	
25711.5 *K 1348*	Pulau Sika.	8° 07.0′ S 124° 37.0′ E	**Fl.W.** period 4s fl. 0.5s, ec. 3.5s	39 **12**	11	White beacon.	
	PULAU ALOR:						
25711.7 *K 1345*	**-Tg. Jalono.**	8° 17.6′ S 124° 24.7′ E	**Fl.W.** period 7s fl. 1.5s, ec. 5.5s	115 **35**	**16**	White fiberglass tower; 98.	
25712 *K 1344*	-**Kalabahi,** landing pier.	8° 13.1′ S 124° 31.1′ E	**Fl.(3)W.** period 15s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 9.5s	75 **23**	**15**	White metal framework tower; 66.	
25712.5 *K 1344.5*	--SW.	8° 13.7′ S 124° 29.5′ E	**Fl.W.** period 3s fl. 0.5s, ec. 2.5s	52 **16**	10	White beacon.	
25714 *K 1346*	**-Tanjung Margeta.**	8° 27.5′ S 124° 25.1′ E	**Fl.W.** period 7.5s fl. 1s, ec. 6.5s	180 **55**	**15**	White tower.	
25716 *K 1372*	**Pulau Liran.**	8° 03.2′ S 125° 44.3′ E	**Fl.(4)W.** period 40s fl. 0.5s, ec. 6.5s fl. 0.5s, ec. 6.5s fl. 0.5s, ec. 6.5s fl. 0.5s, ec. 18.5s	279 **85**	**23**	White metal framework building; 131.	Visible 228°-150°. Obsured 031°-056°.
25716.3 *K 1372.3*	**Tanjung Tutuneden.**	7° 58.5′ S 126° 28.0′ E	**Fl.(2)W.** period 10s fl. 1s, ec. 1s fl. 1s, ec. 7s	164 **50**	**20**	White metal framework tower; 131.	
25716.5 *K 1372.4*	Gunung Api.	6° 38.2′ S 126° 39.5′ E	**Fl.W.** period 6s fl. 0.5s, ec. 5.5s	49 **15**	12	White beacon.	
25716.6 *K 1372.5*	**Tanjung Tutunhatoloi.**	7° 39.6′ S 126° 48.8′ E	**Fl.W.** period 7s fl. 0.5s, ec. 6.5s	295 **90**	**22**	White metal framework structure; 98.	
25717 *K 1371*	Kun Range, front.	8° 21.8′ S 127° 03.9′ E	**Iso.W.** period 2s	36 **11**	10		
25717.1 *K 1371.1*	-Rear, 431 meters 175°56′ from front.	8° 21.9′ S 127° 03.8′ E	**Fl.(3)W.** period 9s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 5.5s	115 **35**	**16**		
25718 *K 1373*	Kisar, Wonroli.	8° 04.4′ S 127° 08.8′ E	**Fl.W.** period 3s fl. 0.5s, ec. 2.5s	39 **12**	5	White metal framework tower; 33.	

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25718.5 *K 1373.5*	**Pulau Nyata.**	7° 31.4′ S 127° 16.7′ E	**Fl.(3)W.** period 15s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 10.5s	115 **35**	**15**	White beacon.	
25719 *K 1374*	**Tg. Tutpateh.**	8° 12.9′ S 127° 36.1′ E	**Fl.(3)W.** period 10s	138 **42**	**18**	White metal framework structure.	
	RACON		**T(–)**				
25720 *K 1376*	**Meatiy Miarang.**	8° 20.0′ S 128° 29.7′ E	**Fl.(3)W.** period 29s fl. 1s, ec. 5.5s fl. 1s, ec. 5.5s fl. 1s, ec. 15s	79 **24**	**27**	White metal framework tower; 79.	
	RACON		**T(–)**				
25721 *K 1376.5*	**-Tanjung Arousu.**	8° 20.4′ S 130° 45.4′ E	**Fl.W.** period 10s fl. 1s, ec. 9s	112 **34**	**18**	White concrete tower; 98.	
25722 *K 1378*	Selaru, Pulau Batarkusu.	8° 20.3′ S 130° 49.0′ E	**Fl.W.** period 4s fl. 0.5s, ec. 3.5s	46 **14**	13	White metal framework tower; 33.	
25724 *K 1379*	Asoetoeboen.	8° 03.4′ S 11° 16.2′ E	**Fl.W.** period 3s fl. 0.5s, ec. 2.5s	56 **17**	12	White metal framework tower; 49.	
25728 *K 1380.3*	Depot Pertamina.	7° 59.8′ S 131° 17.4′ E	**Q.(4)W.** period 8s	36 **11**	10		
25732 *K 1380*	**Saumlaki.**	7° 59.0′ S 131° 17.8′ E	**Fl.(2)W.** period 15s fl. 0.5s, ec. 2s fl. 0.5s, ec. 12s	108 **33**	**16**	White beacon; 20.	
25734 *K 1380.2*	-SW.	7° 59.2′ S 131° 17.3′ E	**Fl.G.** period 5s fl. 0.5s, ec. 4.5s	46 **14**	12	STARBOARD (A) G, beacon, topmark.	
25736 *K 1382*	Ritabel, W. end of Larat.	7° 09.3′ S 131° 42.9′ E	**Fl.W.** period 3s fl. 0.5s, ec. 2.5s	46 **14**	12	White metal framework tower; 30.	Shown only when vessels are expected.
25738 *K 1382.8*	Pulau Lutur.	7° 08.2′ S 131° 42.7′ E	**Fl.G.** period 6s fl. 0.5s, ec. 5.5s	46 **14**	12	Green beacon.	
25740 *K 1383*	Watidal.	7° 07.6′ S 131° 43.0′ E	**Fl.R.** period 4s fl. 0.5s, ec. 3.5s	33 **10**	4	Red metal framework tower; 33.	
25741 *K 1384*	**Tg Warlangir.**	6° 59.3′ S 132° 00.4′ E	**Fl.W.** period 6s fl. 1s, ec. 5s	243 **74**	**22**	White metal framework tower; 131.	
25741.2 *K 1384.5*	**Kalbur Island.**	6° 39.3′ S 131° 35.4′ E	**Fl.W.** period 4s fl. 0.5s, ec. 3.5s	197 **60**	**22**	White metal framework structure; 131.	
25742 *K 1592*	**Tg. Dehekalano.**	1° 49.3′ S 126° 29.1′ E	**Fl.(3)W.** period 20s fl. 0.5s, ec. 3s fl. 0.5s, ec. 3s fl. 0.5s, ec. 12.5s	213 **65**	**20**	White metal framework structure; 131.	
	RACON		**M(– –)**				(3 & 10cm).
25744 *K 1596*	Leksula.	3° 46.9′ S 126° 31.0′ E	**Fl.W.** period 3s fl. 0.5s, ec. 2.5s	26 **8**	12	White metal framework tower; 20.	**Radar reflector.**

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25746 *K 1597*	**Pulau Fogi**.	3° 17.2′ S 126° 00.6′ E	**Fl.(2)W.** period 15s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 12.5s	502 **153**	**40**	White metal framework structure; 131.	
	BURU:						
25748 *K 1594*	**-Namlea, Teluk Kaveli.**	3° 16.8′ S 127° 05.8′ E	**Fl.(2)W.** period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 7.5s	108 **33**	**16**	White metal framework tower; 98.	
25750 *K 1599*	-Tanjung Kerbau.	3° 16.4′ S 127° 07.2′ E	**Fl.W.** period 3s fl. 0.5s, ec. 2.5s	46 **14**	10	White beacon.	
25751 *K 1599.5*	**Tanjung Bartutui.**	3° 54.2′ S 127° 12.8′ E	**Fl.(3)W.** period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	381 **116**	**25**	White metal framework structure, white building; 131.	
25752 *K 1600*	**Pulau Sunggi.**	3° 18.1′ S 127° 28.4′ E	**Fl.(2)W.** period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	308 **94**	**23**	White metal framework tower; 69.	Visible 310°-220°. Irregular during strong winds. *Reported extinguished (Oct. 1984).*
25754 *K 1600.5*	**Pulau Niene.**	2° 54.8′ S 127° 54.4′ E	**Fl.(2)W.** period 15s fl. 0.5s, ec. 2.5s fl. 0.5s, ec. 11.5s	197 **60**	**30**	White beacon.	
25754.5 *K 1601.15*	**Tanjung Waka.**	2° 28.5′ S 126° 03.0′ E	**Fl.(3)W.** period 15s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 10.5s	164 **50**	**20**	White tower.	
25755 *K 1601.1*	Tanjung Fatmok.	2° 27.2′ S 126° 04.1′ E	**Fl.(3)W.** period 10s	72 **22**	12	White beacon.	
25756 *K 1601*	Sanana.	2° 03.7′ S 125° 59.2′ E	**Fl.R.** period 5s fl. 0.5s, ec. 4.5s	59 **18**	8	Red metal framework tower 49.	
25756.5 *K 1601.3*	-In harbor.	2° 03.3′ S 125° 59.4′ E	**Fl.G.** period 3s fl. 0.5s, ec. 2.5s	46 **14**	12	Green beacon.	
25760 *K 1601.5*	Sakita.	1° 59.3′ S 125° 57.3′ E	**Fl.(4)W.** period 8s	33 **10**	10		
25764 *K 1603*	**Pulau Lawin.**	1° 31.3′ S 128° 45.0′ E	**Fl.(2)W.** period 6s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 3.5s	112 **34**	**15**	White metal framework structure; 98.	
25766 *K 1591*	**Pulau Obi, Tanjung Wok.**	1° 27.8′ S 127° 53.8′ E	**L.Fl.W.** period 12s fl. 5s, ec. 7s	56 **17**	**17**	White beacon; 56.	
25769 *K 1587.5*	Babang.	0° 37.8′ S 127° 36.4′ E	**Fl.W.** period 4s fl. 0.5s, ec. 3.5s	46 **14**	10	White beacon.	
25770 *K 1588*	**Pokal.**	0° 26.4′ S 127° 43.3′ E	**Fl.(2)W.** period 15s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 12.5s	360 **110**	**25**	White beacon.	
25771 *K 1582*	Lata Lata.	0° 15.5′ S 127° 00.7′ E	**Fl.W.** period 2s fl. 0.5s, ec. 1.5s	46 **14**	13	White metal framework structure; 33.	

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25772 *K 1620*	**Tanjung Nusanive.**	3° 47.2′ S 128° 05.7′ E	**Fl.W.** period 5s fl. 1s, ec. 4s	397 **121**	**26**	White metal framework tower; 98.	Visible 254°-195°.
25773 *K 1619*	P. Nusatelu, P. Ela.	3° 39.1′ S 127° 54.4′ E	**Fl.W.** period 4s fl. 0.5s, ec. 3.5s	197 **60**	10	White beacon; 33.	
25776 *K 1621*	Tandjung Sikula.	3° 43.3′ S 128° 05.2′ E	**Fl.R.** period 10s fl. 1s, ec. 9s	43 **13**	7	White metal framework tower; 33.	
25780 *K 1621.4*	Tandjung Wainitu.	3° 42.1′ S 128° 09.8′ E	**Fl.G.** period 5s fl. 0.5s, ec. 4.5s	56 **17**	8	Green beacon.	
25782 *K 1622*	Ambon.	3° 41.7′ S 128° 10.5′ E	**Fl.W.** period 3s fl. 0.8s, ec. 2.2s	82 **25**	12	White mast; 10.	
25783 *K 1622.5*	-N. of Batumerah.	3° 40.7′ S 128° 11.3′ E	**Fl.W.** period 3s fl. 1s, ec. 2s	39 **12**	8	White beacon; 33.	
25784 *K 1623*	Halong.	3° 39.6′ S 128° 12.6′ E	**Fl.G.** period 5s fl. 0.5s, ec. 4.5s	26 **8**	6	Green beacon; 16.	
25788 *K 1623.5*	Martafonds.	3° 39.4′ S 128° 12.0′ E	**Fl.R.** period 5s fl. 0.5s, ec. 4.5s	26 **8**	6	Red beacon; 16.	
25791 *K 1624.5*	Tg. Kailolo.	3° 31.4′ S 128° 25.5′ E	**Q.(6)+L.Fl.W.** period 15s	33 **10**	5	White beacon.	
25791.4 *K 1624.7*	Pelauw.	3° 30.2′ S 128° 26.4′ E	**Fl.(3)W.** period 10s	33 **10**	5	White beacon.	
	PULAU SERAM:						
25794 *K 1605.5*	-Teluk Hatiling.	2° 47.1′ S 129° 31.1′ E	**Fl.R.** period 3s fl. 0.6s, ec. 2.4s	46 **14**	10	Red beacon.	
25796 *K 1605*	--NW.	2° 46.7′ S 129° 30.7′ E	**Fl.G.** period 4s fl. 0.5s, ec. 3.5s	46 **14**	10	Green beacon.	
25797 *K 1607*	-Bula.	3° 06.2′ S 130° 30.1′ E	**Fl.(4)W.** period 8s		10		
25798 *K 1610.5*	-Tanjung Namalen.	3° 57.1′ S 131° 25.3′ E	**Fl.R.** period 5s fl. 0.5s, ec. 4.5s	46 **14**	12	Red beacon.	
25800 *K 1608*	-Pulau Geser, pier, head.	3° 52.7′ S 130° 54.1′ E	**F.R.**	33 **10**	2	White metal framework tower; 20.	Visible 334°30′-008° and 136°-244°. Exhibited when ships are expected.
25802 *K 1610.7*	-Karang Madorang.	3° 38.6′ S 131° 03.8′ E	**Fl.(2)W.** period 10s fl. 0.5s, ec. 1s fl. 0.5s, ec. 8s	46 **14**	12	White beacon.	
25803 *K 1611.8*	Teluk Elpaputih, Tg. Kuako.	3° 19.8′ S 128° 54.8′ E	**Fl.W.** period 4s fl. 0.5s, ec. 3.5s	55 **17**	10	White metal framework tower; 49.	
25803.5 *K 1612*	-Teluk Amahai.	3° 20.3′ S 128° 55.3′ E	**Fl.W.** period 3s fl. 0.5s, ec. 2.5s	55 **17**	10	White metal framework tower; 30.	
25803.7 *K 1612.5*	-Haruru.	3° 17.7′ S 128° 57.3′ E	**Fl.W.** period 3s fl. 0.5s, ec. 2.5s	46 **14**	12	White beacon.	

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(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			INDONESIA (LESSER SUNDA ISLANDS)				
25804 *K 1616*	Sapurua Bay, landing pier, head.	3° 34.6′ S 128° 39.6′ E	**Fl.W.** period 3s fl. 0.5s, ec. 2.5s	46 **14**	12		
25806 *K 1613*	Teluk Piru, Pulau Kasa.	3° 19.0′ S 128° 08.2′ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	46 **14**	10	White beacon.	
25808 *K 1625*	**Saanggi.**	4° 19.4′ S 129° 42.5′ E	**Fl.(3)W.** period 15s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 10.5s	400 **122**	**25**	White metal framework tower; 49.	
25810 *K 1598*	**Bingkudu Island.**	5° 20.6′ S 127° 46.7′ E	**Fl.W.** period 5s fl. 1s, ec. 4s	82 **25**	**15**	White concrete beacon tower; 66.	
	PULAU BANDA:						
25812 *K 1626*	-Pulau Naira, S. side, pier, head.	4° 31.5′ S 129° 53.8′ E	**Fl.W.** period 3s fl. 0.5s, ec. 2.5s	46 **14**	12	White metal framework structure; 33.	**Radar reflector.**
25816 *K 1626.5*	--Tg. Batu Mati.	4° 30.2′ S 129° 53.6′ E	**Fl.R.** period 10s fl. 1s, ec. 9s	42 **13**	7	Red beacon; 33.	
25820 *K 1626.3*	-Pulau Kraka.	4° 30.2′ S 129° 53.2′ E	**Fl.G.** period 5s fl. 0.5s, ec. 4.5s	36 **11**	7	Green beacon; 33.	
25824 *K 1628*	Bui.	5° 06.8′ S 131° 59.8′ E	**Fl.W.** period 3s fl. 0.5s, ec. 2.5s	49 **15**	12	White metal framework tower; 49.	
25828 *K 1628.5*	**Pulau Koer**.	5° 18.7′ S 132° 00.4′ E	**Fl.(3)W.** period 20s fl. 0.5s, ec. 3.5s fl. 0.5s, ec. 3.5s fl. 0.5s, ec. 11.5s	393 **120**	**40**	White metal framework tower; 131.	
25830 *K 1628.8*	**Kaitanimbar.**	6° 00.5′ S 132° 26.2′ E	**Fl.(3)W.** period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	197 **60**	**20**	White tower.	
25832 *K 1629*	-Tual.	5° 34.2′ S 132° 40.3′ E	**Fl.R.** period 3s fl. 0.6s, ec. 2.4s	59 **18**	4	White metal framework tower; 49.	
25833 *K 1629.3*	Selat Doe Rowa, NW. of Oeboer.	5° 34.5′ S 132° 42.7′ E	**Fl.G.** period 6s fl. 0.5s, ec. 5.5s	27 **8**	6	STARBOARD (A) G, beacon, topmark.	
25833.5 *K 1630.4*	Pulau Duroa, SE. end.	5° 32.9′ S 132° 45.5′ E	**Fl.G.** period 3s fl. 0.5s, ec. 2.5s	26 **8**	6	White beacon.	
25834 *K 1629.36*	-Ngadi.	5° 34.6′ S 132° 45.3′ E	**L.Fl.W.** period 5s fl. 2s, ec. 3s	59 **18**	7	White beacon; 49.	Fl.Y. 1.5s 7m 5M light 300 meters W and Fl.Y. 2.5s 7m 5M light 300 meters N. **Radar reflector.**
25836 *K 1629.6*	Oeboer.	5° 35.8′ S 132° 43.9′ E	**Fl.G.** period 3s fl. 0.3s, ec. 2.7s	33 **10**	4	White metal framework tower; 33.	
25837 *K 1629.8*	Mangon.	5° 36.2′ S 132° 44.0′ E	**Fl.R.** period 3s fl. 0.6s, ec. 2.4s	27 **8**	4	PORT (A) R, beacon, topmark; 20.	
25840 *K 1630*	-Kai Duloh Tual.	5° 38.2′ S 132° 44.5′ E	**Fl.W.** period 3s fl. 0.5s, ec. 2.5s	33 **10**	5	White metal framework tower; 30.	

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			INDONESIA (LESSER SUNDA ISLANDS)				
25844 *K 1630.6*	-Tegal Reef.	5° 28.5′ S 132° 49.3′ E	**Fl.W.** period 4s fl. 0.5s, ec. 3.5s	46 **14**	10	White metal framework tower.	
25848 *K 1631*	-Elat, pier, head.	5° 38.9′ S 132° 59.8′ E	**Fl.W.** period 3s fl. 0.5s, ec. 2.5s	26 **8**	10	White metal framework tower; 20.	
25850 *K 3341*	**-Tg Aika.**	4° 52.6′ S 136° 44.6′ E	**Q.(2)W.** period 10s fl. 0.4s, ec. 0.6s fl. 0.4s, ec. 8.6s	102 **31**	**17**	Beacon.	
25852 *K 3342.4*	Aika River Range, front.	4° 53.2′ S 136° 46.6′ E	**Q.W.**	23 **7**	6	Beacon; 23.	
25856 *K 3342.41*	-Rear, 056°29′ from front.	4° 52.0′ S 136° 47.0′ E	**Oc.W.** period 4.5s lt. 3s, ec. 1.5s	47 **14**	6	Beacon; 46.	
25860 *K 3342.6*	Inner Aika River Range, front.	4° 50.0′ S 138° 47.0′ E	**Q.W.**	23 **7**	6	Beacon; 20.	
25864 *K 3342.61*	-Rear, 013°30′ from front.	4° 50.0′ S 136° 47.0′ E	**Oc.W.** period 4s lt. 3s, ec. 1s	42 **13**	6	Beacon; 43.	Channel marked by lights.
25868	Aika River.	4° 50.0′ S 136° 50.0′ E	**Fl.W.** period 4s	36 **11**	6	Beacon.	

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			NEW GUINEA (IND.)				
25872 *K 1632*	Kepulauan Aru, Pulau Wamar, on Ular Point.	5° 45.3′ S 134° 11.9′ E	**L.Fl.W.** period 5s fl. 2s, ec. 3s	73 **22**	12	White metal framework tower; 43.	Visible 018°-271°.
25876 *K 1633*	-**Pulau Warilau**, N. end.	5° 20.2′ S 134° 34.2′ E	**Fl.W.** period 4s fl. 0.5s, ec. 3.5s	98 **30**	**15**	White metal framework tower; 92.	
	-RACON		**K(– • –)**				
25884 *K 1632.4*	-Dobo, pier, head.	5° 45.5′ S 134° 14.6′ E	**F.R.**	26 **8**	4	White metal framework tower; 20.	Shown when vessels are expected.
25886 *K 1632.6*	-Fuel Depot.	5° 49.3′ S 134° 15.0′ E	**Fl.W.** period 3s	33 **10**			
25886.3 *K 1632.7*	**-Pulau Kultubai.**	6° 49.9′ S 134° 47.2′ E	**Fl.(2)W.** period 12s fl. 1.5s, ec. 2s fl. 1.5s, ec. 7s	115 **35**	**20**	White beacon; 98.	
25886.5 *K 1632.8*	**-Enu Island.**	7° 05.3′ S 134° 29.0′ E	**Fl.W.** period 10s fl. 1s, ec. 9s	151 **46**	**23**	White concrete tower; 131.	
25887 *K 3336*	**Sungai Torasi.**	9° 07.9′ S 141° 01.2′ E	**Fl.W.** period 3s fl. 0.4s, ec. 2.6s	46 **14**	**15**	Framework tower.	
25888 *K 3338*	**Tg. Mimiabe.**	8° 30.3′ S 140° 22.2′ E	**Fl.(4)W.** period 20s fl. 1s, ec. 3s fl. 1s, ec. 3s fl. 1s, ec. 3s fl. 1s, ec. 7s	144 **44**	**27**	White metal framework tower; 131.	
25890 *K 3339.2*	**-Sungai Merauke.**	8° 28.7′ S 140° 23.4′ E	**Fl.W.** period 6s fl. 1s, ec. 5s	82 **25**	**20**	White beacon.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			NEW GUINEA (IND.)				
25892 *K 3339*	-Range, front.	8° 27.6′ S 140° 21.7′ E	**Fl.W.** period 4s fl. 0.5s, ec. 3.5s	46 **14**	10	Beacon, white triangular daymark point up; 33.	
25896 *K 3339.1*	--Rear, 300 meters 035° from front.	8° 27.4′ S 140° 21.8′ E	**Fl.W.** period 3s fl. 0.3s, ec. 2.7s	69 **21**	12	White metal framework tower, white triangular daymark point down; 52.	
25897.5 *K 3338.4*	Pelabuhan Merauke.	8° 30.7′ S 140° 18.7′ E	**Fl.R.** period 3s fl. 0.3s, ec. 2.7s	42 **13**	12	Red beacon.	
25898 *K 3338.5*	-Merauke.	8° 29.8′ S 140° 19.3′ E	**Fl.R.** period 4s fl. 0.5s, ec. 3.5s	39 **12**	10	Beacon, red rectangular daymark.	
25899 *K 3338.7*	-Merauke Inner.	8° 28.6′ S 140° 21.1′ E	**Fl.G.** period 5s fl. 1s, ec. 4s	44 **13**	10	Green metal framework structure.	
25900 *K 3339.6*	Yatum.	8° 26.9′ S 140° 18.9′ E	**Fl.W.** period 6s fl. 0.5s, ec. 5.5s	82 **25**	10	White metal framework structure; 82.	
25902 *K 3339.8*	**Tanjung Mawal.**	8° 07.0′ S 139° 57.1′ E	**Fl.W.** period 3s fl. 0.6s, ec. 2.4s	43 **13**	**15**	White beacon.	
25904 *K 3340*	**Habee.**	8° 14.6′ S 139° 27.0′ E	**Fl.W.** period 4s fl. 0.5s, ec. 3.5s	115 **35**	**24**	White metal framework tower; 26.	Visible 242°-110°.
	RACON		**M(– –)** period 30s		5		Azimuth coverage 295°-072°. (3cm).
25906 *K 3340.5*	Selat Muli.	8° 23.5′ S 138° 58.6′ E	**Fl.R.** period 4s fl. 0.5s, ec. 3.5s	39 **12**	10	Red metal framework tower.	
25906.1 *K 3340.51*	-NW.	8° 21.2′ S 138° 57.9′ E	**Fl.G.** period 3s fl. 0.3s, ec. 2.7s	46 **14**	10	Green beacon.	
25906.3 *K 3340.52*	**-Kimaan.**	8° 00.7′ S 138° 53.6′ E	**Fl.W.** period 6s fl. 1s, ec. 5s	75 **23**	**19**	White beacon.	
25906.7 *K 3340.55*	Tanjung Kolff.	7° 23.2′ S 138° 31.8′ E	**Fl.W.** period 3s fl. 0.5s, ec. 2.5s	43 **13**	12	White beacon.	
25907 *K 3340.7*	Sungai Digul.	6° 56.1′ S 138° 31.7′ E	**Iso.W.** period 2s	39 **12**	10	White metal framework tower.	
25907.1 *K 3340.65*	-S. estuary.	7° 10.4′ S 138° 48.7′ E	**Fl.R.** period 5s fl. 0.5s, ec. 4.5s	43 **13**	12	Red fiberglass tower; 33.	
25907.15 *K 3340.67*	**Habeeaman.**	7° 11.6′ S 138° 57.7′ E	**Fl.G.** period 5s fl. 0.5s, ec. 4.5s	46 **14**	**15**	Green beacon.	
25907.2 *K 3340.68*	-Modderhock.	7° 11.5′ S 138° 38.7′ E	**Fl.G.** period 4s fl. 0.5s, ec. 3.5s	43 **13**	12	Green fiberglass tower; 33.	
25907.25 *K 3340.94*	Atay.	5° 51.1′ S 138° 09.2′ E	**Fl.R.** period 5s fl. 1s, ec. 4s	46 **14**	10	PORT (A) R, beacon, topmark.	
25907.3 *K 3340.95*	Kampung River, entrance.	5° 51.8′ S 138° 15.4′ E	**Fl.G.** period 3s fl. 0.4s, ec. 2.6s	43 **13**	12	STARBOARD (A) G, beacon, topmark.	
25907.4 *K 3340.8*	Flamingo Bay.	5° 36.6′ S 137° 57.9′ E	**Fl.G.** period 3s fl. 0.5s, ec. 2.5s	43 **13**	12	Green beacon.	
25907.6 *K 3340.85*	-Agats.	5° 33.1′ S 138° 01.7′ E	**Iso.W.** period 2s	43 **13**	12	White beacon.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			NEW GUINEA (IND.)				
25907.62 *K 3340.87*	--Sungai Utumbuwe.	5° 32.9′ S 138° 08.2′ E	**Fl.W.** period 3s fl. 0.5s, ec. 2.5s	75 **23**	10	White beacon.	
25907.65 *K 3340.9*	-Utumbuwe River, entrance.	5° 33.7′ S 138° 03.9′ E	**Fl.G.** period 3s fl. 0.6s, ec. 2.4s	43 **13**	12	Green beacon.	
25907.8	*Amampare, buoy A.*	4° 55.7′ S 136° 40.1′ E	**Mo.(A)W.**			Conical buoy.	
	RACON		**O(– – –)**				
25908 *K 3343*	Nime.	4° 45.1′ S 136° 31.1′ E	**Fl.(2)W.** period 12.5s fl. 0.5s, ec. 2s fl. 0.5s, ec. 9.5s	52 **16**	12	White metal framework tower; 49.	**Radar reflector.**
25910 *K 3345.4*	Pulau Nusurumi.	3° 50.5′ S 134° 05.7′ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	187 **57**	12	White beacon.	
25912 *K 3345.5*	**Palau Adi.**	4° 18.7′ S 133° 38.2′ E	**Fl.(3)W.** period 15s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 9.5s	98 **30**	**16**	White metal framework tower; 66.	
25914 *K 3343.5*	Pulau Keliwala.	3° 59.3′ S 133° 30.5′ E	**Fl.W.** period 3s fl. 0.3s, ec. 2.7s	43 **13**	12	White beacon.	**Radar reflector.**
25916 *K 3345.3*	Bitsyaru.	3° 43.4′ S 133° 48.8′ E	**F.(3)W.** period 15s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 9.5s	115 **35**	14	White metal framework structure; 49.	
25917 *K 3345*	Kaimana.	3° 40.0′ S 133° 45.3′ E	**F.R.**	19 **6**	2	Red beacon; 20.	
25917.5 *K 3344.7*	Tanjung Simora.	3° 40.4′ S 133° 41.8′ E	**Fl.W.** period 3s fl. 0.6s, ec. 2.4s	89 **27**	12	White beacon.	
25918 *K 3344.5*	Serotte Island.	3° 34.4′ S 133° 38.7′ E	**Fl.(2)R.** period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	164 **50**	12	Red beacon.	
25920 *K 3346*	Pulau Panjong, E. end.	2° 59.5′ S 132° 19.4′ E	**Fl.(3)W.** period 15s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 9.5s	112 **34**	7	White metal framework tower; 43.	Visible 139°30′-094°30′.
25922 *K 3347.6*	**Pulau Ekka.**	2° 58.2′ S 132° 06.8′ E	**Fl.(2)W.** period 10s fl. 0.2s, ec. 1.4s fl. 0.2s, ec. 8.2s	164 **50**	**20**	White beacon.	
25923 *K 3347.5*	Meti Meti.	2° 56.9′ S 132° 17.8′ E	**Fl.R.** period 4s fl. 0.5s, ec. 3.5s	49 **15**	6	PORT (A) R, beacon, topmark.	
25924 *K 3347*	Fakfak.	2° 56.0′ S 132° 18.8′ E	**Fl.W.** period 3s fl. 1s, ec. 2s	39 **12**	5	White beacon.	
25925 *K 3347.7*	Batu Putih, W. end.	2° 56.4′ S 131° 58.6′ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	180 **55**	12	White beacon.	**Radar reflector.**
25926 *K 3356*	Tg. Putus.	2° 03.2′ S 132° 03.6′ E	**Fl.W.** period 3s fl. 0.6s, ec. 2.4s	46 **14**	12	White beacon.	
25928 *K 3349*	**Tanjung Sabra.**	2° 16.4′ S 132° 18.4′ E	**Fl.W.** period 5s fl. 1s, ec. 4s	118 **36**	**18**	White metal column, concrete base; 98.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			NEW GUINEA (IND.)				
25930 *K 3352*	Tg. Karakra.	2° 17.1′ S 132° 41.9′ E	**Fl.W.** period 3s fl. 0.6s, ec. 2.4s	43 **13**	12		
25932 *K 3354*	**Tanjung Tanahmerah.**	2° 26.3′ S 133° 08.4′ E	**Fl.(3)W.** period 15s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 9.5s	165 **50**	**18**	White metal framework tower; 33.	Visible 078°-253°.
25936 *K 3350*	Kokas.	2° 41.7′ S 132° 26.3′ E	**Fl.Y.** period 2s fl. 0.5s, ec. 1.5s	26 **8**	4	Framework tower; 33.	
25938 *K 3348.7*	Tanjung Wetin.	2° 41.5′ S 132° 06.9′ E	**Fl.W.** period 3s fl. 0.6s, ec. 2.4s	102 **31**	12	White beacon.	
25940 *K 3348.4*	Pulau Sabuda, NE. point.	2° 37.3′ S 131° 40.0′ E	**Fl.(2)W.** period 18s fl. 0.5s, ec. 3s fl. 0.5s, ec. 14s	328 **100**	12	White metal framework tower; 56.	Visible 090°-034°.
25944 *K 3358*	**Jef Joes.**	1° 45.1′ S 131° 08.9′ E	**Fl.W.** period 7.5s fl. 0.5s, ec. 7s	108 **33**	**16**	White metal framework tower; 66.	Visible 060°-018°.
25948 *K 3360*	Umpe Island, W. end.	1° 28.4′ S 130° 59.2′ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	36 **11**	7	White metal framework tower; 33.	Visible 311°-150°.
25948.5 *K 3357.5*	**Pulau Nampale.**	1° 47.4′ S 129° 37.3′ E	**Fl.(3)W.** period 20s fl. 0.5s, ec. 3s fl. 0.5s, ec. 3s fl. 0.5s, ec. 12.5s	151 **46**	**20**	White beacon; 131.	
25948.7 *K 1603.5*	**Pulau Boo Besar.**	1° 10.3′ S 129° 18.1′ E	**Fl.(2)W.** period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	112 **34**	**15**	Concrete tower; 98.	
25949 *K 3361*	**Pulau Kofiau.**	1° 10.5′ S 129° 58.5′ E	**Fl.W.** period 5s fl. 0.3s, ec. 4.7s	151 **46**	**20**	White beacon; 131.	
	RACON		**D(– • •)**		12		
	SELAT SELE:						
25956 *K 3373.3*	**-Pulau Buaya.**	0° 50.2′ S 131° 12.6′ E	**Fl.(4)W.** period 25s fl. 0.6s, ec. 3s fl. 0.6s, ec. 3s fl. 0.6s, ec. 3s fl. 0.6s, ec. 13.6s	282 **86**	**22**	White beacon; 66.	
	-RACON		**K(– • –)**				
25960	-*Sorong Approach* Lighted Buoy, N. side of 1 3/4 fathom shoal.	0° 52.0′ S 131° 13.7′ E	**Fl.W.** period 10s			Red and white striped buoy.	**Radar reflector.**
25964 *K 3374*	Doom Island.	0° 53.1′ S 131° 14.2′ E	**Fl.G.** period 2s fl. 0.5s, ec. 1.5s	23 **7**	5	Concrete beacon, green triangular daymark point up.	
25968 *K 3366*	-Dopior Islet.	0° 52.6′ S 131° 14.3′ E	**Fl.R.** period 2s fl. 0.5s, ec. 1.5s	33 **10**	5	PORT (A) R, tower, topmark; 16.	
25972 *K 3368*	-Sorong Range, about 1.9 kilometers SE. of Tanjoeng Noejew, common front.	0° 53.0′ S 131° 15.5′ E	**Fl.W.** period 3s fl. 0.5s, ec. 2.5s	33 **10**	6	White metal framework tower, white triangular daymark point down; 26.	
25976 *K 3368.1*	--Rear, 1.9 kilometers 102°30′ from front.	0° 53.2′ S 131° 16.5′ E	**Iso.W.** period 4s	196 **60**	8	Metal framework tower, white triangular daymark topmark point down; 16.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			NEW GUINEA (IND.)				
25980 *K 3367.9*	--Rear, 841 meters 032° from front.	0° 52.6′ S 131° 15.8′ E	**Iso.W.** period 4s	79 **24**	6	White metal framework tower, white triangular daymark point down; 16.	
25984 *K 3368.5*	-Karang Dua.	0° 53.5′ S 131° 15.6′ E	**Fl.(2)W.** period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	23 **7**	5	ISOLATED DANGER BRB, beacon, topmark.	
25988 *K 3372*	-Pulau Tsiof.	0° 53.8′ S 131° 11.1′ E	**Fl.(3)W.** period 15s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 9.5s	36 **11**	6	White metal framework tower; 33.	Visible 295°-207°.
25992 *K 3379*	-Balbili Island.	1° 05.3′ S 131° 10.9′ E	**Fl.(2)W.** period 12.5s fl. 0.5s, ec. 2s fl. 0.5s, ec. 9.5s	26 **8**	6	White metal framework tower; 16.	Visible 130°-015°.
26000 *K 3381*	-Segarou Island, on reef northward, front.	1° 10.1′ S 131° 06.9′ E	**Fl.R.** period 5s fl. 0.5s, ec. 4.5s	23 **7**	6	Red column; 13.	
26004 *K 3381.1*	--Rear, 7.4 kilometers 195°30′ from front.	1° 14.0′ S 131° 05.8′ E	**Fl. G.** period 5s fl. 0.5s, ec. 4.5s	46 **14**	6	STARBOARD (A) G, tower, topmark; 33.	
26008 *K 3382*	-Unaginim.	1° 11.3′ S 131° 07.3′ E	**Fl.G.** period 5s fl. 0.5s, ec. 4.5s	26 **8**	5	Beacon, green triangular daymark point up; 16.	
26012 *K 3384*	-Kampong Wiljam.	1° 16.9′ S 131° 00.0′ E	**Fl.R.** period 5s fl. 0.5s, ec. 4.5s	20 **6**	5	Red beacon; 16.	
26016 *K 3386*	-Membok Island, on reef, NE.	1° 24.3′ S 130° 54.8′ E	**Fl.R.** period 10s fl. 1s, ec. 9s	43 **13**	8	PORT (A) R, tower, topmark; 39.	
26017 *K 3387.5*	-Tanjung Sele.	1° 27.3′ S 130° 55.2′ E	**Fl.G.** period 5s fl. 0.5s, ec. 4.5s	43 **13**	6	STARBOARD (A) G, beacon, topmark; 33.	
26020 *K 3362*	Selat Sagewin, Pulau Batanta, S. side.	0° 54.6′ S 130° 36.6′ E	**Fl.(2)W.** period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 7.5s	378 **115**	12	White metal framework tower; 33.	Visible 261°-077°.
26021 *K 3362.5*	**Pulau Agusta.**	0° 38.8′ S 130° 34.8′ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	72 **22**	**15**	White concrete tower.	
26022 *K 3363*	**Saonek Besar.**	0° 28.1′ S 130° 47.2′ E	**Fl.W.** period 7.5s fl. 0.5s, ec. 7s	203 **62**	**15**	White beacon.	
26024 *K 3376*	Mios Su (Amsterdam).	0° 20.7′ S 132° 10.3′ E	**Fl.W.** period 3s fl. 0.3s, ec. 2.7s	56 **17**	14	White metal framework tower; 52.	Visible 089°-272°.
26028 *K 3376.5*	Saoekorem.	0° 33.1′ S 133° 08.8′ E	**Fl.(2)W.** period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	105 **32**	14	White metal framework structure; 98.	
26032 *K 3389*	Tg. Memori.	0° 51.7′ S 134° 08.1′ E	**Fl.(3)W.** period 15s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 9.5s	52 **16**	12	White metal framework tower; 56.	Visible 132°-343°.
26036 *K 3391*	Butsiuri Reef, Menukwari Road.	0° 52.5′ S 134° 05.3′ E	**Fl.R.** period 5s fl. 0.5s, ec. 4.5s	36 **11**	7	White metal beacon; 13.	
26040 *K 3390*	Manukwari Coal Depot Range, front.	0° 51.8′ S 134° 04.8′ E	**F.G.**	17 **5**	4	White triangular daymark point up; 13.	Occasional.
26044 *K 3390.4*	Manokwari, pier.	0° 51.8′ S 134° 04.8′ E	**F.R.**	33 **10**	4	Red metal mast; 23.	Occasional.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			NEW GUINEA (IND.)				
26048 *K 3390.1*	-Rear, 85 meters 006°30′ from front.	0° 51.9′ S 134° 04.5′ E	**Iso.W.** period 2s	30 **9**	14	White triangular daymark point down; 20.	Occasional.
26052 *K 3392*	**Palau Numfoor.**	0° 56.5′ S 134° 49.5′ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	147 **45**	**18**	White metal framework tower; 52.	Visible 060°-238°, partially obscured-255°.
26053 *K 3391.5*	**Pulau Bepondi.**	0° 24.4′ S 135° 15.8′ E	**Fl.W.** period 5s fl. 1s, ec. 4s	75 **23**	**20**	White beacon.	
26055 *K 3392.75*	Teluk Wabudori.	0° 40.0′ S 135° 36.3′ E	**Fl.W.** period 6s fl. 0.6s, ec. 5.4s	49 **15**	12	White beacon.	
26056 *K 3392.7*	Rani.	0° 57.8′ S 135° 30.3′ E	**Fl.W.** period 3s	56 **17**	12	White beacon; 49.	
26058 *K 3392.8*	**Pulau Miosmbi.**	1° 04.5′ S 136° 23.3′ E	**L.Fl.W.** period 8s fl. 2s, ec. 6s	52 **16**	**18**	White beacon.	
26060 *K 3393*	**Sorido** Outer Range, front.	1° 11.2′ S 136° 05.6′ E	**Iso.W.** period 2s	49 **15**	**15**	White metal framework tower, white triangular daymark point up; 33.	
26064 *K 3393.1*	-Rear, about 260 meters 322° from front.	1° 11.3′ S 136° 05.5′ E	**Iso.W.** period 2s	75 **23**	**15**	White mast, white triangular daymark point down; 49.	
26068 *K 3393.3*	-Inner Range, front.	1° 10.9′ S 136° 04.3′ E	**Iso.W.** period 8s	56 **17**	**15**	White mast, white triangular daymark point up; 33.	
26072 *K 3393.31*	--Rear, 240 meters 295° from front.	1° 11.0′ S 136° 04.2′ E	**Iso.W.** period 8s	56 **17**	**15**	White mast, white triangular daymark point down; 49.	
26076 *K 3393.5*	-Biak AVIATION LIGHT.	1° 11.5′ S 136° 08.3′ E	**L.Fl.W.** period 5s fl. 2s, ec. 3s	331 **101**	12	White metal framework tower; 16.	Visible 268°-094° except where obscured by islands.
26080 *K 3395.1*	**Tanjung Oransbari.**	1° 20.9′ S 134° 16.5′ E	**Oc.W.** period 4s lt. 3s, ec. 1s	164 **50**	**21**	White metal framework tower; 66.	
26081 *K 3395.15*	Tg. Yanimerai.	1° 44.2′ S 134° 12.2′ E	**Fl.Y.** period 4s	79 **24**	6	SPECIAL Y, beacon, "X" topmark.	
26082 *K 3395.2*	Tg. Wandoswaar.	2° 00.5′ S 134° 21.7′ E	**Fl.Y.** period 4s	49 **15**	6	SPECIAL Y, beacon, "X" topmark.	
26084 *K 3394.5*	Serui, W. pier, inner head.	1° 53.0′ S 136° 15.0′ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	52 **16**	4	Yellow metal framework tower; 49.	
26088 *K 3393.6*	Rasi Island, S. end.	1° 20.3′ S 136° 37.3′ E	**Fl.(3)W.** period 15s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 9.5s	46 **14**	12	White metal framework tower; 43.	Visible 226°-106°.
26092 *K 3396.8*	**Pulau Kumamba Liki.**	1° 34.8′ S 138° 43.0′ E	**L.Fl.W.** period 5s	144 **44**	**21**	White metal framework tower; 131.	
26096 *K 3395*	Tg. Woka, W. extremity of Jopen Island.	1° 36.0′ S 135° 24.7′ E	**Fl.W.** period 3s fl. 0.3s, ec. 2.7s	131 **40**	12	White metal beacon; 33.	
26100 *K 3395.6*	Nabire.	3° 06.3′ S 135° 32.8′ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	66 **20**	12	White metal framework tower; 33.	
26101 *K 3395.59*	Pulau Notabari.	3° 06.1′ S 135° 09.6′ E	**Fl.Y.** period 4s	79 **24**	6	SPECIAL Y, beacon, "X" topmark.	
26104 *K 3395.8*	Teluk Kimi.	3° 14.1′ S 135° 34.9′ E	**Fl.(2)W.** period 8s fl. 0.5s, ec. 2.5s fl. 0.5s, ec. 4.5s	75 **23**	12	White metal framework tower; 66.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			NEW GUINEA (IND.)				
26104.5 *K 3395.9*	**Tanjung Kamengsenu.**	2° 41.8′ S 136° 01.2′ E	**Fl.W.** period 4s fl. 1s, ec. 3s	174 **53**	**18**	White beacon.	
26105 *K 3396*	**-Naufi.**	2° 14.2′ S 136° 15.6′ E	**L.Fl.W.** period 10s fl. 3s, ec. 7s	115 **35**	**15**	White beacon.	
26105.5 *K 3396.2*	Tanjung Worisanua.	2° 12.4′ S 136° 25.3′ E	**Fl.W.** period 6s fl. 1s, ec. 5s	75 **23**	12	White beacon.	
26106 *K 3395.3*	-Karang-Karang Tydeman.	2° 08.2′ S 135° 18.7′ E	**Fl.W.** period 6s fl. 1s, ec. 5s	36 **11**	6	White beacon.	
26106.5 *K 3395.35*	Pulau Matas.	2° 12.5′ S 134° 45.8′ E	**Fl.Y.** period 4s	46 **14**	6	SPECIAL Y, beacon, "X" topmark.	
26107 *K 3395.4*	-Pulau Kubuai.	2° 32.8′ S 134° 53.0′ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	108 **33**	14	White metal framework structure; 98.	
26107.5 *K 3395.5*	**-Yop.**	2° 32.0′ S 134° 23.6′ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	46 **14**	**15**	Green beacon.	
26107.7 *K 3395.55*	-Teluk Wandamen, Miei.	2° 43.6′ S 134° 30.1′ E	**L.Fl.W.** period 10s fl. 2s, ec. 8s	42 **13**	12	White beacon.	
26108 *K 3393.7*	Tg. Rainbawa.	1° 47.7′ S 136° 54.2′ E	**Fl.W.** period 3s fl. 0.3s, ec. 2.7s	85 **26**	12	White metal framework tower, white diamond topmark; 66.	Visible 165°-055°.
26112 *K 3396.6*	Mamberamo.	1° 27.6′ S 137° 53.8′ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	102 **31**	12	White metal framework tower; 52.	
26115 *K 3396.9*	**Pulau Armo.**	1° 42.6′ S 138° 48.0′ E	**Q.(6)+L.Fl.W.** period 15s	52 **16**	**18**	S. CARDINAL YB, beacon, topmark.	**Radar reflector.**
26116 *K 3397*	Sarmi.	1° 50.5′ S 138° 44.9′ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	59 **18**	6	White metal framework tower; 52.	
26117 *K 3397.5*	Holmaffin.	1° 57.6′ S 138° 52.6′ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	46 **14**	12	White beacon.	
26118 *K 3397.6*	**Jamna.**	2° 00.3′ S 139° 14.3′ E	**Fl.W.** period 6s fl. 0.5s, ec. 5.5s	75 **23**	**18**	White beacon.	
26119 *K 3397.8*	**Tg. Kamdara.**	2° 19.1′ S 140° 06.7′ E	**Iso.W.** period 10s	141 **43**	**17**		
26119.5 *K 3397.95*	Tg. Kelapa.	2° 26.4′ S 140° 36.7′ E	**Fl.W.** period 6s fl. 0.5s, ec. 5.5s	39 **12**	14	White beacon.	
26120 *K 3398*	**Soeadja Moko.**	2° 31.7′ S 140° 44.8′ E	**Fl.(2+1)W.** period 24s fl. 1s, ec. 3s fl. 1s, ec. 9s fl. 1s, ec. 9s	705 **215**	**18**	White metal framework tower; 66.	
26123 *K 3398.8*	Hollandia Baai, NW. of Entsjau.	2° 32.5′ S 140° 43.2′ E	**Fl.R.** period 4s fl. 0.5s, ec. 3.5s	44 **13**	12	PORT (A) R, beacon, topmark.	**Radar reflector.**
26123.5 *K 3398.9*	-N. side of harbor.	2° 32.3′ S 140° 42.8′ E	**Fl.G.** period 5s fl. 0.5s, ec. 4.5s	44 **13**	12	STARBOARD (A) G, beacon, topmark.	**Radar reflector.**
26124 *K 3399*	-Noebae Han, front.	2° 32.4′ S 140° 42.4′ E	**Q.W.**	56 **17**	6	White metal framework tower, red bands, white triangular daymark point up; 49.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			NEW GUINEA (IND.)				
26128 *K 3399.1*	--Rear, 150 meters 255° from front.	2° 32.5′ S 140° 42.4′ E	**Oc.W.** period 4s lt. 3s, ec. 1s	72 **22**	6	White wooden post, white triangular topmark point down; 82.	
26129 *K 3399.8*	**Oinake.**	2° 36.7′ S 141° 00.0′ E	**Fl.W.** period 10s fl. 1s, ec. 9s	656 **200**	**20**	White structure.	
			PAPUA NEW GUINEA				
26130 *K 3400*	Cape Concordia.	2° 40.8′ S 141° 18.5′ E	**Fl.W.** period 5s fl. 0.2s, ec. 4.8s	223 **68**	10	White framework tower; 30.	
26132 *K 3400.15*	Stein Reef.	3° 07.8′ S 142° 21.8′ E	**Fl.(2)W.** period 10s	20 **6**	3	White concrete column; 13.	
26134 *K 3400.18*	Walis Island.	3° 14.6′ S 143° 18.2′ E	**Fl.(2)W.** period 6s	20 **6**	9	White column.	
26136 *K 3400.2*	Unei Island.	3° 22.7′ S 143° 24.6′ E	**Fl.(4)W.** period 16s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 9.5s	20 **6**	9	White pile structure.	
26140 *K 3400.4*	Cape Samein.	3° 26.1′ S 143° 32.7′ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	30 **9**	10	Black pile structure.	
26142 *K 3400.6*	Wewak.	3° 33.8′ S 143° 38.8′ E	**Fl.G.** period 5s fl. 0.5s, ec. 4.5s	26 **8**	4	White pile.	
26142.1 *K 3400.7*	-W. side.	3° 33.4′ S 143° 37.8′ E	**Fl.R.** period 3s fl. 0.3s, ec. 2.7s	16 **5**	4	White pile.	
26144 *K 3401*	Cape Moem.	3° 33.1′ S 143° 42.1′ E	**Fl.(3)W.** period 12s	52 **16**	10	White framework tower; 49.	
26152 *K 3401.4*	Condor Point.	4° 07.1′ S 144° 51.7′ E	**Fl.(2)W.** period 8s fl. 0.4s, ec. 1s fl. 0.4s, ec. 6.2s	50 **15**	10	White framework tower; 52.	
26156 *K 3401.6*	Cap Gourdon.	4° 23.2′ S 145° 19.4′ E	**Fl.(3)W.** period 9s fl. 0.3s, ec. 1s fl. 0.3s, ec. 1s fl. 0.3s, ec. 6.1s	50 **15**	10	White framework tower; 62.	
26160 *K 3401.8*	Cape Croisilles.	4° 50.9′ S 145° 48.3′ E	**Fl.(2)W.** period 6s fl. 0.3s, ec. 1s fl. 0.3s, ec. 4.4s	72 **22**	10	White framework tower; 72.	Visible 135°-338°.
26164 *K 3403*	Madang Entrance Range, front, on Beliau Island.	5° 12.2′ S 145° 48.4′ E	**Fl.W.** period 1.5s	24 **7**	10	Black pile, white triangular daymark point up.	
26168 *K 3403.1*	-Rear, 115 meters 300° from front.	5° 12.2′ S 145° 48.3′ E	**Oc.W.** period 4s	48 **15**	7	White framework tower, white triangular daymark point down.	
26169 *K 3403.4*	Kranket Island Range, front.	5° 12.2′ S 145° 48.9′ E	**Q.W.**	10 **3**	4	White pile.	
26169.5 *K 3403.41*	-Rear, 30 meters 073°30′ from front.	5° 12.2′ S 145° 48.9′ E	**Fl.W.** period 5s	16 **5**	4	White pile.	
26170 *K 3403.2*	-Boyes Reef.	5° 12.4′ S 145° 48.9′ E	**Fl.G.** period 3s	18 **5**	7	White pile, green triangular daymark point up.	
26172 *K 3402*	Coast Watchers.	5° 12.7′ S 145° 48.9′ E	**Fl.W.** period 15s fl. 0.2s, ec. 14.8s	92 **28**	12	White concrete tower; 89.	Tower floodlit for 30 minutes every 3 hours.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			PAPUA NEW GUINEA				
26176 *K 3404*	AVIATION LIGHT, 3.1 kilometers 276°30′ from Kalibobo Point.	5° 12.6′ S 145° 47.2′ E	**Fl.W.** period 9.5s fl. 0.3s, ec. 9.2s	60 **18**	**25**		
26184 *K 3405.4*	Kitumala Point.	6° 19.2′ S 147° 48.4′ E	**Fl.(2)W.** period 8s fl. 0.4s, ec. 1s fl. 0.4s, ec. 6.2s	85 **26**	10	White fiberglass tower; 13.	Visible 170°-318°.
26188 *K 3406*	Nussing Island, Cape Cretin.	6° 39.4′ S 147° 51.8′ E	**Fl.W.** period 6s fl. 0.6s, ec. 5.4s	70 **21**	10	White framework tower; 66.	Visible 187°-060°, except where obscured by Tami Island.
26192 *K 3408*	Cape Gerhards.	6° 44.5′ S 147° 34.5′ E	**Fl.(3)W.** period 12s	71 **22**	10	White framework tower; 75.	
26212 *K 3415*	Burnung Point.	7° 01.0′ S 147° 04.1′ E	**Fl.(2)W.** period 20s fl. 1s, ec. 3s fl. 1s, ec. 15s	151 **46**	10	White column; 13.	Visible 140°-300°.
26213.1 *K 3422*	Cape Ward Hunt.	8° 03.7′ S 148° 07.6′ E	**Fl.W.** period 4s	213 **65**	10		
26214 *K 3422.5*	Raymonde Shoal.	8° 12.9′ S 148° 17.3′ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	52 **16**	10	Black pile structure.	
26216 *K 3423*	Eve Shoal.	8° 30.9′ S 148° 25.1′ E	**Fl.(2)W.** period 8s fl. 0.4s, ec. 1s fl. 0.4s, ec. 6.2s	52 **16**	10	White beacon, gray bands.	
26220 *K 3424*	**Oro Bay** Range, front.	8° 54.0′ S 148° 28.0′ E	**Fl.W.** period 3s fl. 0.3s, ec. 2.7s	390 **119**	**18**	White metal tower.	
26224 *K 3424.1*	-Rear, 244 meters 240°42′ from front.	8° 54.0′ S 148° 28.0′ E	**Fl.W.** period 10s fl. 0.2s, ec. 9.8s	436 **133**	**18**	White metal tower.	
26228 *K 3426*	Spear Island.	8° 59.5′ S 149° 08.2′ E	**Fl.W.** period 6s	63 **19**	10	White metal tower.	
26232 *K 3428*	Hall Point.	9° 02.4′ S 149° 18.8′ E	**Fl.(2)W.** period 6s fl. 0.3s, ec. 1s fl. 0.3s, ec. 4.4s	66 **20**	9	White hut; 10.	Visible 150°-330°.
	TUFI HARBOR:						
26236 *K 3430*	-Range, front.	9° 05.1′ S 149° 19.3′ E	**Oc.W.** period 3s lt. 2s, ec. 1s	100 **30**	10	White square daymark, black stripe; 30.	Visible 260°-345°.
26240 *K 3430.1*	--Rear, 1.65 miles 308°30′ from front.	9° 04.1′ S 149° 18.0′ E	**Fl.W.** period 5s fl. 0.2s, ec. 4.8s	400 **122**	10	White square daymark, black stripe; 20.	Visible 280°-330°, partially obscured 175°-280°.
26244 *K 3429*	Veale Reef.	9° 11.8′ S 149° 28.5′ E	**Fl.W.** period 2.5s fl. 0.5s, ec. 2s	30 **9**	10	White column; 39.	
26248 *K 3429.6*	Ham Reef.	9° 11.9′ S 149° 26.6′ E	**Fl.W.** period 10s fl. 1s, ec. 9s	30 **9**	10	Black pile structure; 30.	
26252 *K 3429.4*	Greaves Reef.	9° 10.6′ S 149° 26.9′ E	**Fl.(3)W.** period 12s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 7.5s	36 **11**	10	White column; 39.	
26256 *K 3429.8*	Stewart Reef.	9° 07.7′ S 149° 23.5′ E	**Fl.R.** period 1.5s fl. 0.2s, ec. 1.3s	23 **7**	4	White pile; 23.	
26260 *K 3432*	Ipoteto Island.	9° 37.7′ S 150° 01.4′ E	**Fl.(2)W.** period 8s	75 **23**	10	White framework tower; 82.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			PAPUA NEW GUINEA				
26264 *K 3438*	Kegawam Island.	10° 21.2′ S 151° 23.1′ E	**Fl.W.** period 6s fl. 0.4s, ec. 5.6s	26 **8**	10	Beacon.	
26268 *K 3446*	Hastings Island.	10° 20.5′ S 151° 52.1′ E	**Fl.(2)W.** period 6s fl. 0.5s, ec. 1s fl. 0.5s, ec. 4s	28 **9**	10	Black and white pile, green triangular daymark point up; 13.	Visible 298°-204°24′. **Radar reflector.**
26272 *K 3449*	Lunn Island.	10° 47.2′ S 152° 00.3′ E	**Fl.W.** period 4s fl. 0.4s, ec. 3.6s	48 **15**	10	Black and white pile, red square daymark; 49.	Visible 164°30′-035°42′.
26276 *K 3450*	Pana Waipona Island.	11° 15.2′ S 152° 08.1′ E	**Fl.W.** period 10s fl. 0.1s, ec. 9.9s	79 **24**	10	Black and white pile, green triangular daymark point up; 69.	
26280 *K 3450.3*	Misima Island, Bwagaoia Harbor.	10° 41.5′ S 152° 50.9′ E	**Fl.W.** period 5s	13 **4**	10	White pile.	
26282 *K 3450.44*	--E. side.	10° 41.7′ S 152° 47.6′ E	**Fl.(3)W.** period 9s fl. 0.3s, ec. 1s fl. 0.3s, ec. 1s fl. 0.3s, ec. 6.1s	36 **11**	2		
26283 *K 3450.46*	--W. side.	10° 41.7′ S 152° 47.5′ E	**Q.R.**	33 **10**	2		
26284 *K 3450.5*	**Adele Island.**	11° 26.9′ S 154° 24.0′ E	**Fl.W.** period 8s fl. 0.5s, ec. 7.5s	141 **43**	**16**	Framework tower; 102.	
26288 *K 3440*	Shortland Reef.	10° 30.5′ S 151° 07.9′ E	**Fl.(3)W.** period 12s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 7.5s	36 **11**	10	White pile structure; 33.	
26292 *K 3444*	Bright Island, N. end.	10° 31.9′ S 151° 12.8′ E	**Fl.W.** period 2.5s fl. 0.5s, ec. 2s	52 **16**	10	White tower; 46.	Visible 016°-317°.
26296 *K 3448*	Strathord Islands, N. islet.	10° 13.3′ S 151° 52.0′ E	**Fl.(3)W.** period 12s	26 **8**	10	Beacon.	Visible 032°30′-327°30′.
26304 *K 3451.24*	-S. side.	10° 15.0′ S 150° 56.5′ E	**Fl.R.** period 2s fl. 0.2s, ec. 1.8s	23 **7**	4	Pile, red square daymark.	**Radar reflector.**
26308 *K 3451.23*	-N. side.	10° 14.7′ S 150° 56.6′ E	**Fl.G.** period 2s fl. 0.2s, ec. 1.8s	23 **7**	4	Pile, green triangular daymark point up.	**Radar reflector.**
26312 *K 3451*	Meimeiara Island.	10° 13.5′ S 150° 53.0′ E	**Fl.W.** period 2.5s fl. 0.5s, ec. 2s	114 **35**	10	White hut; 13.	
26316 *K 3456*	Brumer Island.	10° 45.3′ S 150° 22.9′ E	**Fl.(3)W.** period 15s	686 **209**	10	White square concrete tower; 23.	Visible 293°-283°. Partly obscured 283°-293°.
26320 *K 3456.5*	Ava Point.	10° 34.1′ S 149° 52.8′ E	**Fl.W.** period 12s fl. 0.2s, ec. 11.8s	616 **188**	10	White square concrete tower; 20.	
26324 *K 3455*	Weka Una Rock.	10° 36.1′ S 150° 36.5′ E	**Fl.(2)W.** period 8s fl. 0.5s, ec. 1s fl. 0.5s, ec. 6s	33 **10**	10	White column, concrete base; 20.	
26328 *K 3453*	Sariba Island, N. extremity, 2.9 kilometers 018° from Mount Bilo Bilolo summit.	10° 34.3′ S 150° 42.1′ E	**Fl.W.** period 5s	23 **7**	6	Beacon.	
26332 *K 3452*	Isulailai Point.	10° 33.5′ S 150° 41.7′ E	**Fl.(2)W.** period 6s fl. 0.3s, ec. 1s fl. 0.3s, ec. 4.4s	55 **17**	9	White framework tower; 13.	Visible 167°-031°.
26336 *K 3451.4*	Sanderson Bay.	10° 18.5′ S 150° 27.0′ E	**Q.R.**	31 **9**	3		Visible 330°-065°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			PAPUA NEW GUINEA				
26340 *K 3454*	Samarai Island, off N. end.	10° 36.3′ S 150° 39.8′ E	**Fl.W.** period 3s fl. 0.5s, ec. 2.5s	20 **6**	6	Black and white pile, green triangular daymark point up; 20.	**Radar reflector.**
26344 *K 3456.7*	Rothery Passage, W. Reef, E. end.	10° 21.2′ S 148° 41.4′ E	**Fl.(3)W.** period 15s	72 **22**	10	White framework tower; 72.	
26348 *K 3457*	Hood Point.	10° 06.2′ S 147° 43.7′ E	**Q.(2)W.** period 8s	26 **8**	10	Beacon.	
	PORT MORESBY:						
26352 *K 3458*	-Basilisk Passage, Nateara Reef.	9° 32.3′ S 147° 08.0′ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	30 **9**	10	White pile structure; 30.	**Radar reflector.**
	-RACON		**G(– – •)** period 128s		10		(3cm).
26360 *K 3459*	**-Basilisk Passage** Range, front.	9° 29.9′ S 147° 11.1′ E	**Oc.W.** period 4s lt. 2.5s, ec. 1.5s	125 **38**	**15**	Square beacon, two white rectangular daymarks, black stripes; 10.	Visible 029°-089°.
26364 *K 3459.1*	--Rear, 445 meters 054° 30′from front.	9° 29.8′ S 147° 11.3′ E	**Oc.W.** period 6s lt. 4.5s, ec. 1.5s	294 **90**	10	White square concrete tower, two white rectangular daymark, black stripes; 23.	Visible 309°-116°, intensified 309°-101°.
26368 *K 3461*	-Logolu Motu Motu Reef, S. end.	9° 28.6′ S 147° 08.5′ E	**Fl.G.** period 2.5s fl. 0.5s, ec. 2s	15 **5**	4	White column, green band.	
26372 *K 3461.2*	--N. end.	9° 28.5′ S 147° 08.6′ E	**Fl.(2)G.** period 8s	15 **5**	6	White column, green band.	
26381 *K 3460.2*	Port Moresby Restricted Area, S. side.	9° 27.6′ S 147° 07.2′ E	**Fl.R.** period 4s				
26381.2 *K 3460.205*	Port Moresby Restricted Area, N. side.	9° 27.4′ S 147° 07.2′ E	**Fl.R.** period 2s				
26381.4 *K 3460.21*	Napa Napa.	9° 27.4′ S 147° 07.1′ E	**Fl.R.** period 4s				R. Lt. on flare stack 0.2M W.
26381.6 *K 3460.211*	Esade Motu Motu.	9° 27.2′ S 147° 07.1′ E	**Q.(6)+L.Fl.W.** period 15s			S. CARDINAL YB, beacon, topmark.	
26382 *K 3460.3*	-Vahunabada Reef.	9° 27.8′ S 147° 08.4′ E	**Q.G.**		3	White pile, black bands.	
26384 *K 3464*	Idihi Island.	9° 25.8′ S 146° 53.0′ E	**Fl.(2)W.** period 5s	75 **23**	10	White round tower.	
26388 *K 3463.4*	Haidana Island, reef off W. side.	9° 27.3′ S 147° 01.9′ E	**Fl.R.** period 5s	23 **7**	4	White pile, red square daymark.	
26392 *K 3463.8*	Boera Head.	9° 23.4′ S 147° 00.9′ E	**Fl.W.** period 2.5s	108 **33**	10	White hut; 7.	
26396 *K 3464.4*	Redscar Head.	9° 15.9′ S 146° 54.0′ E	**Fl.W.** period 10s	254 **77**	10	White hut, white square daymark; 10.	
26400 *K 3465*	Yule Island.	8° 49.6′ S 146° 32.1′ E	**Fl.(3)W.** period 15s	178 **54**	8	White square concrete tower; 23.	
26404 *K 3469.7*	**Kumul.**	8° 03.8′ S 144° 33.7′ E	**Mo.(U)W.** period 15s **Q.R.**	62 **19**	**15**	Platform.	Shown from each corner. **Horn:** Mo.(U) 30s.
	RACON		**Q(– – • –)**				(3 & 10cm).
26408 *K 3469*	Bristow Island.	9° 06.0′ S 143° 17.0′ E	**Fl.(2)W.** period 8s	20 **6**	10	White tower; 23.	
26411 *K 3470*	Daru Island, NE.	9° 03.7′ S 143° 13.1′ E	**Fl.W.** period 2.5s	20 **6**	6		

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			PAPUA NEW GUINEA				
26416 *K 3436*	Bomatu Point.	8° 24.0′ S 151° 07.0′ E	**Fl.(3)W.** period 15s	102 **31**	10	White framework tower; 62.	Visible 097°-290°.
26420 *K 3437*	Kitava Island.	8° 38.7′ S 151° 20.2′ E	**Fl.W.** period 7.5s fl. 0.5s, ec. 7s	350 **107**	10	White framework tower; 49.	Visible 232°-080°, partially obscured 080°-110°.

Section 17

Burma, Bangladesh, India, Sri Lanka and Andaman Sea
Including Andaman Islands, Nicobar Islands and Maldive Islands

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			INDIA-BAY OF BENGAL				
	NICOBAR ISLANDS:						
	-Great Nicobar:						
26424 *F 1224*	--Indira Point.	6° 45.3′ N 93° 49.7′ E	**Fl.(2)W.** period 20s	115 **35**	10	White round metal tower, red diagonal stripes; 114.	
	--RACON		**G(– – •)**		10		Azimuth coverage 244°-103°. (3 & 10cm).
26426 *F 1227.1*	--Rosen Point.	6° 57.3′ N 93° 56.7′ E	**Fl.W.** period 10s	75 **23**	13	Trestle tower, square masonry tower, black bands; 69.	
26428 *F 1225*	--Chisen.	6° 59.2′ N 93° 55.6′ E	**Fl.(2)W.** period 10s fl. 0.5s, ec. 2.5s fl. 0.5s, ec. 6.5s	148 **45**	6	White square masonry tower; 20.	
26432 *F 1226*	--Campbell Bay Range, front.	7° 00.4′ N 93° 55.1′ E	**Q.W.**	36 **11**	5	White rectangular tower, red triangular daymark point up; 26.	
26436 *F 1226.1*	---Rear, 200 meters 319°30′ from front.	7° 00.6′ N 93° 55.2′ E	**Fl.W.** period 5s	75 **23**	5	White square concrete tower, red bands, white triangular daymark point up; 62.	
26436.5 *F 1224.9*	--Campbell Bay.	7° 00.9′ N 93° 56.0′ E	**Fl.(2)W.** period 10s fl. 1s, ec. 1s fl. 1s, ec. 7s	138 **42**	10	White trestle tower; 39.	
26437 *F 1224.1*	**--Kabra Island.**	7° 17.4′ N 93° 50.8′ E	**Fl.(3)W.** period 20s	203 **62**	**20**	White framework tower, black bands; 39.	
	-Little Nicobar:						
26439 *F 1223.8*	--Menchal Island.	7° 23.7′ N 93° 46.2′ E	**Fl.W.** period 10s	154 **47**	10	Framework tower; 98.	
26440 *F 1223.6*	--Pulo Milo.	7° 24.5′ N 93° 41.5′ E	**Fl.W.** period 15s fl. 1s, ec. 14s	174 **53**	8	White framework tower; 46.	
26446 *F 1223*	-Katchall Island, East Bay.	8° 00.4′ N 93° 24.5′ E	**Fl.W.** period 5s	141 **43**	10	Red and white metal framework tower; 79.	
26448 *F 1223.4*	--West Bay.	7° 55.5′ N 93° 19.9′ E	**Fl.(3)W.** period 15s	56 **17**	10	Black and white metal framework tower; 39.	
26450 *F 1222.65*	Cape Connaught.	7° 55.8′ N 93° 34.6′ E	**Fl.(2)W.** period 15s fl. 0.5s, ec. 1s fl. 0.5s, ec. 13s	72 **22**	10	Square masonry tower, black bands; 39.	
26451.1 *F 1222.58*	-Trinkat Island.	8° 02.4′ N 93° 35.7′ E	**Fl.(4)W.** period 20s	36 **11**		White round masonry tower.	
26451.2 *F 1222.8*	**-Tillanchang Island.**	8° 28.3′ N 93° 37.5′ E	**Fl.W.** period 10s	374 **114**	**25**	White framework tower, black bands.	
26451.3 *F 1222.55*	**-Bompoka Island.**	8° 13.5′ N 93° 14.8′ E	**Fl.(2)W.** period 20s fl. 1s, ec. 2s fl. 1s, ec. 16s	141 **43**	**16**	Red metal framework tower, white bands; 39.	
26451.4 *F 1222.5*	-Chowra Island.	8° 27.5′ N 93° 03.3′ E	**Fl.W.** period 15s	85 **26**	9	White metal framework tower; 39.	
	-RACON		**B(– • • •)**				

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			INDIA-BAY OF BENGAL				
26452 *F 1222.4*	-Batti Malv.	8° 50.2′ N 92° 51.5′ E	**Fl.(4)W.** period 20s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 15s	69 **21**	8	White metal framework tower; 46.	
	-Car Nicobar:						
26464 *F 1220*	**--Keating Point.**	9° 15.3′ N 92° 46.5′ E	**Fl.W.** period 10s fl. 0.4s, ec. 9.6s	121 **37**	**26**	White round metal tower, red bands; 121.	
	--RACON		**O(– – –)**		**20**		Azimuth coverage 052°-319°. (3 & 10cm).
26476 *F 1211*	Rutland Island.	11° 20.8′ N 92° 36.6′ E	**Fl.(3)W.** period 15s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 9.5s	34 **10**	10	Square concrete tower; 10.	
26480 *F 1212*	**-North Cinque Island.**	11° 19.7′ N 92° 43.3′ E	**Fl.W.** period 10s	501 **153**	**20**	White rectangular stone tower, red bands; 36.	
26481 *F 1212.5*	North Brother Island.	10° 59.3′ N 92° 40.0′ E	**Fl.(2)W.** period 20s	46 **14**	10	White metal framework tower.	
26482 *F 1212.8*	South Sentinel Island.	10° 58.9′ N 92° 13.6′ E	**Fl.W.** period 15s	121 **37**	10	White metal framework tower, red bands; 118.	
26484 *F 1214*	**Little Andaman.**	10° 30.7′ N 92° 30.3′ E	**Fl.W.** period 10s fl. 0.2s, ec. 9.8s	167 **51**	**20**	White tower, black bands; 151.	
26488 *F 1213*	Hut Bay, breakwater.	10° 35.9′ N 92° 33.3′ E	**V.Q.Y.**			Post.	
	ANDAMAN ISLANDS:						
26492 *F 1205*	**-North Point.**	11° 42.3′ N 92° 45.3′ E	**Fl.(2)W.** period 12s fl. 0.3s, ec. 2.7s fl. 0.3s, ec. 8.7s	235 **72**	**20**	White round metal tower, red diagonal stripes; 114.	
	-RACON		**K(– • –)**				(3 & 10cm).
26496 *F 1207*	-Perseverance Point.	11° 41.4′ N 92° 44.7′ E	**Fl.W.** period 10s	33 **10**	10	White tower, orange bands; 16.	
26500 *F 1208*	-Command Point.	11° 41.7′ N 92° 43.7′ E	**Fl.(2)W.** period 10s	36 **11**	5	White concrete tower; 20.	
26501 *F 1208.5*	-Blair Reef, E.	11° 41.0′ N 92° 44.2′ E	**Fl.R.** period 6s	10 **3**	6	Beacon.	
26502 *F 1209.5*	-Atlanta Point.	11° 40.6′ N 92° 44.8′ E	**Fl.W.** period 5s	108 **33**	6	White square masonry tower, red band; 33.	
26504 *F 1210*	-Mount Haughton, AVIATION LIGHT.	11° 39.0′ N 92° 44.8′ E	**F.R.**	528 **161**	3	Gray round tower, round conspicuous building; 18.	
26508 *F 1204*	-Ross Island.	11° 40.9′ N 92° 46.0′ E	**Fl.W.** period 15s	39 **12**	10	White round masonry tower, black band; 39.	
26512 *F 1203*	**-Sir Hugh Rose Island.**	11° 47.3′ N 93° 05.0′ E	**Fl.W.** period 7s fl. 1s, ec. 6s	187 **57**	**20**	White round metal tower, red bands; 72.	
26513 *F 1210.5*	-Chidiyatapu.	11° 28.7′ N 92° 42.7′ E	**Fl.(2)W.** period 10s	171 **52**	10	White concrete tower, black bands; 121.	
26514 *F 1202.9*	-Havelock Island, Stowe Point.	12° 03.0′ N 92° 57.9′ E	**Fl.W.** period 5s	26 **8**	10	White concrete tower; 26.	
26516 *F 1202.8*	-Baratang Island, S. end.	12° 05.0′ N 92° 47.5′ E	**Fl.W.** period 5s	177 **54**	8	White metal framework tower, black bands; 46.	Visible 216°-006°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			INDIA-BAY OF BENGAL				
26518 *F 1202.68*	Wilson Island.	12° 08.8′ N 92° 57.4′ E	**Fl.(2)W.** period 20s fl. 0.5s, ec. 1s fl. 0.5s, ec. 18s		10	White framework tower, red bands; 39.	
26520 *F 1202.66*	Strait Island.	12° 11.9′ N 92° 56.0′ E	**Fl.(3)W.** period 20s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 16.5s	92 **28**	8	White framework tower; 46.	
26524 *F 1202.64*	South Button Island.	12° 13.5′ N 93° 01.2′ E	**Fl.W.** period 15s fl. 0.5s, ec. 14.5s	85 **26**	8	White metal framework tower, red bands; 46.	
26528 *F 1202.62*	Middle Button Island.	12° 16.7′ N 93° 01.7′ E	**Fl.(2)W.** period 20s fl. 0.5s, ec. 1s fl. 0.5s, ec. 18s	125 **38**	8	White framework tower, black bands; 46.	
26532 *F 1202.6*	North Button Island.	12° 19.1′ N 93° 04.1′ E	**Fl.W.** period 10s fl. 0.5s, ec. 9.5s	190 **58**	8	White framework tower, black bands; 46.	
26539 *F 1202.58*	North Passage Island, Cape Portman.	12° 18.6′ N 92° 56.0′ E	**Fl.W.** period 5s	95 **29**	10		
26542 *F 1202.3*	Interview Island.	12° 53.2′ N 92° 40.1′ E	**Fl.(2)W.** period 20s fl. 0.5s, ec. 1s fl. 0.5s, ec. 18s	171 **52**	10	White square masonry tower; 39.	
26544 *F 1202.45*	Aves Island.	12° 54.8′ N 92° 56.3′ E	**Fl.(2)W.** period 7s	115 **35**	11	Red masonry tower, white bands; 49.	
26548 *F 1202.4*	Square Rock.	12° 55.5′ N 92° 58.5′ E	**Fl.W.** period 15s	42 **13**	10	Beacon.	
26552 *F 1201*	**East Island.**	13° 37.8′ N 93° 02.9′ E	**Fl.W.** period 15s	292 **89**	**24**	White round metal tower, red bands; 121.	
	RACON		**D(– • •)**				(3 & 10cm).
			BURMA-ANDAMAN SEA				
26556 *F 1202*	Port Cornwallis, Ross Island, Bo pung.	13° 18.0′ N 93° 04.5′ E	**Fl.(2)W.** period 20s fl. 1s, ec. 2s fl. 1s, ec. 16s	134 **41**	10	White square masonry tower; 23.	
26557 *F 1202.2*	-Brush Islet.	13° 17.6′ N 93° 03.0′ E	**Fl.W.** period 5s	42 **13**	5	White round concrete structure.	
26560 *F 1201.1*	Narcondam Island.	13° 27.3′ N 94° 15.7′ E	**Fl.(3)W.** period 20s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 16.5s	200 **61**	8	White metal framework tower; 46.	Visible 058°-179°.
26564 *F 1200*	**Table Island.**	14° 11.1′ N 93° 21.7′ E	**Fl.(4)W.** period 25s fl. 1s, ec. 3s fl. 1s, ec. 3s fl. 1s, ec. 3s fl. 1s, ec. 12s	195 **59**	**20**	White round tower, red bands; 91.	Visible 013°-031° and 039°-348°.
26570 *F 1158*	Pulau Palin.	9° 58.3′ N 98° 29.9′ E	**Fl.W.** period 5s	52 **16**	12	Square framework tower; 53.	
	MERGUI HARBOR:						
26572 *F 1138*	-Kalwin Point.	12° 29.5′ N 98° 35.3′ E	**Fl.W.** period 3s fl. 0.5s, ec. 2.5s	41 **12**	8	Red metal framework tower, yellow bands, platform, concrete piles.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			BURMA-ANDAMAN SEA				
26576 *F 1144*	-Seikkantha.	12° 26.7′ N 98° 35.8′ E	**Q.W.**	48 **15**	12	White metal framework tower, wooden framework tower, white ball topmark; 61.	
26580 *F 1136*	Cornwall Point.	13° 04.8′ N 98° 20.0′ E	**Fl.W.** period 5s	20 **6**	7	Black and white checkered framework tower; 13.	
26584 *F 1132*	Mibya Kyun (Reef Island), W. side of entrance to Tavoy River.	13° 36.6′ N 98° 12.2′ E	**Fl.W.** period 5s	299 **91**	12	White square masonry tower, round lantern; 31.	Visible 164°-007°.
26588 *F 1131*	Kyaukpyn Kyun.	13° 46.6′ N 97° 55.2′ E	**Fl.W.** period 7s fl. 0.7s, ec. 6.3s	175 **53**	7	Black and white checkered framework tower; 13.	Visible 188°-139°.
26592 *F 1128*	Double Island, center.	15° 52.5′ N 97° 35.1′ E	**Fl.W.** period 5s	140 **43**	13	White masonry tower; 66.	Visible 353°-173°.
26596 *F 1126*	**Green Island.**	16° 03.8′ N 97° 33.1′ E	**Fl.(2)W.** period 10s	135 **41**	**19**	White masonry tower, red bands; 65.	
	RANGOON:						
26620 *F 1088*	**-Eastern Grove Flats.**	16° 30.1′ N 96° 23.2′ E	**Oc.W.** period 6s lt. 4s, ec. 2s	93 **28**	**15**	Red pile structure, black and white lantern; 105.	Visible 307°-037°.
26640 *F 1100.9*	-Thilawa Range, front, 256 meters 193°45′ from common rear.	16° 39.1′ N 96° 15.8′ E	**Q.W.**	27 **8**	5	White metal column; 15.	
26644 *F 1101*	--Common Rear Range.	16° 39.2′ N 96° 15.9′ E	**Fl.W.** period 4s fl. 1.5s, ec. 2.5s	59 **18**	5	White framework tower; 53.	
26648 *F 1101.2*	-Front, 210 meters 290° from common rear.	16° 39.2′ N 96° 15.7′ E	**Q.W.**	26 **8**	5	White metal column; 25.	
26660 *F 1106*	-Thetkaikwin (D'Silva) Range, front.	16° 39.8′ N 96° 13.4′ E	**Q.W.**	30 **9**	5	White metal framework tower; 28.	
26664 *F 1106.1*	--Rear, 306 meters 177° from front.	16° 39.6′ N 96° 13.4′ E	**Fl.W.** period 4s fl. 1.5s, ec. 2.5s	50 **15**	5	White metal framework tower; 47.	
26680 *F 1074*	*SANDA LIGHTSHIP.*	15° 32.0′ N 95° 38.0′ E	**Fl.W.** period 6s				Q.W. riding light. **Radar reflector.**
26688 *F 1068*	Alguda Reef.	15° 42.3′ N 94° 12.0′ E	**Fl.W.** period 10s fl. 0.5s, ec. 9.5s	161 **49**	13	Black granite tower, white bands; 160.	Visible 260°-175°.
26692 *F 1070*	Thamihla Kyun (Diamond Island) Bassein River entrance.	15° 52.0′ N 94° 16.7′ E	**Fl.W.** period 4s fl. 0.5s, ec. 3.5s	80 **24**	12	White metal framework tower, red band; 40.	Visible 135°-027°.
26704 *F 1067*	Gorangyi Kyun.	16° 32.0′ N 94° 14.7′ E	**Fl.W.** period 15s	217 **66**	12	Black wooden framework tower, white bands.	Visible 010°-180°. **Radar reflector.**
			BURMA-BAY OF BENGAL				
26708 *F 1065*	Lontha (Andrew Bay).	18° 22.1′ N 94° 20.3′ E	**Fl.W.** period 8s fl. 0.5s, ec. 7.5s	136 **41**	12	Black and white checkered tower; 36.	Visible 016°-113° and 144°-160°.
26712 *F 1066*	Nantha Kyun (Foul Island), W. side.	18° 03.9′ N 94° 05.4′ E	**Q.W.**	554 **169**	7	Black and white checkered tower; 10.	
26716 *F 1064.5*	Obntapin Kyun (Unguan Island), S. summit of island.	18° 26.2′ N 93° 54.2′ E	**Fl.W.** period 12s fl. 1s, ec. 11s	145 **44**	12	Black and white checkered tower; 16.	
26720 *F 1064.3*	Ohnchaung.	18° 50.9′ N 93° 44.3′ E	**Fl.W.** period 5s	30 **9**	8	Gray metal framework tower; 24.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			BURMA-BAY OF BENGAL				
26724 *F 1064*	**Mun Aug (Beacon Island),** E. summit.	18° 55.9′ N 93° 27.1′ E	**Fl.(3)W.** period 20s	122 **37**	**20**	Red metal tower, white top; 119.	Visible 334°-273°.
26728 *F 1061*	Thanta (North Terrible Rock).	19° 26.6′ N 93° 18.2′ E	**Fl.W.** period 8s fl. 0.8s, ec. 7.2s	54 **16**	7	Black metal framework tower, white bands; 45.	
26732 *F 1062*	Paungnetkyi (Laws Island), W. side.	19° 26.6′ N 93° 36.1′ E	**Fl.(4)W.** period 5s	109 **33**	7	Red metal framework tower, white top; 39.	Visible 084°-110°.
26736 *F 1060.5*	Wetkyun (James I).	19° 31.6′ N 93° 31.9′ E	**Fl.W.** period 5s	24 **7**	8	Square metal framework tower.	
	SITTE (AKYAB) HARBOR:						
26744 *F 1059*	**-Sittwe.**	20° 06.9′ N 92° 53.8′ E	**Fl.W.** period 10s fl. 1s, ec. 9s	90 **27**	**20**	White metal framework tower; 88.	Visible 293°-096°.
26748 *F 1058*	**Oyster Island.**	20° 11.9′ N 92° 32.4′ E	**Oc.W.R.** period 15s lt. 10s, ec. 5s	130 **40**	**17**	Black metal tower, white bands; 141.	R. 310°-325°, W.-310°.
			BANGLADESH				
26752 *F 1057*	**St. Martins Island.**	20° 37.9′ N 92° 19.2′ E	**Fl.W.** period 37s	128 **39**	**20**	Framework tower, red and white rectangular daymark.	
	RACON		**M(– –)**				(3 & 10cm).
26756 *F 1056.4*	**Cox's Bazar.**	21° 25.9′ N 91° 58.4′ E	**Fl.W.** period 15s fl. 0.7s, ec. 14.3s	177 **54**	**21**	Framework tower, orange dome; 23.	
	RACON		**C(– • – •)**				(3 & 10cm).
26760 *F 1054*	**Kutubdia Island.**	21° 51.9′ N 91° 50.6′ E	**Fl.(3)W.** period 10s	128 **39**	**20**	Metal framework tower, red and white rectangular daymark.	
	RACON		**K(– • –)**		**18**		(3 & 10cm).
	CHITTAGONG, KARNAPHULI RIVER:						
26764 *F 1048*	**-Normans Point.**	22° 10.8′ N 91° 49.2′ E	**Fl.W.** period 10s fl. 0.5s, ec. 9.5s	39 **12**	**17**	Red and white framework tower.	Visible 019°-130°. Storm signals.
	-RACON		**T(–)**				
26772 *F 1050*	-AVIATION LIGHT.	22° 15.5′ N 91° 49.6′ E	**Al.Fl.W.G.** period 10s W. fl. 1s, ec. 4s G. fl. 1s, ec. 4s				
26776 *F 1050.4*	-Outer Bar Range, front.	22° 13.9′ N 91° 48.3′ E	**Q.R.**	46 **14**		Red and white beacon, circular daymark.	
26780 *F 1050.41*	--Rear, 350 meters 037°06′ from front.	22° 14.0′ N 91° 48.4′ E	**Q.R.**	66 **20**		Red and white beacon, diamond daymark.	
26784 *F 1051*	-Inner Bar Range, front.	22° 14.8′ N 91° 50.2′ E	**Q.W.**	62 **19**		Red and white beacon.	
26788 *F 1051.1*	--Rear, 390 meters 054°11′ from front.	22° 14.9′ N 91° 50.4′ E	**Q.W.**	118 **36**		Red and white beacon.	
26792 *F 1049*	-Patenga.	22° 13.6′ N 91° 48.0′ E	**Fl.R.** period 10s fl. 0.3s, ec. 9.7s	66 **20**	13	White metal framework tower, black bands; 79.	
26804 *F 1052*	-Gupta Crossing Range, front.	22° 15.8′ N 91° 50.4′ E	**Q.W.**	30 **9**		Red and white beacon, cross in circlular daymark.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			BANGLADESH				
26808 *F 1052.1*	--Rear, 150 meters 024°48′ from front.	22° 15.9′ N 91° 50.4′ E	**Q.W.**	59 **18**		Red and white beacon, white triangular daymark point up.	
26812 *F 1053*	-Active Spit Range, front.	22° 15.4′ N 91° 50.3′ E	**Q.W.**	36 **11**		Red and white beacon.	
26816 *F 1053.1*	--Rear, 140 meters 155°45′ from front.	22° 15.3′ N 91° 50.3′ E	**Q.W.**	59 **18**		Red and white beacon.	
26820 *F 1053.4*	-Gupta Crossing Range, front.	22° 15.8′ N 91° 50.4′ E	**Q.W.**	33 **10**		Red and white beacon.	
26824 *F 1053.41*	--Rear, 190 meters 114°18′ from front.	22° 15.7′ N 91° 50.5′ E	**Q.W.**	66 **20**		Red and white beacon.	
26826 *F 1053.8*	-Custom mark, front.	22° 19.6′ N 91° 49.8′ E	**F.R.**	69 **21**			
26826.1 *F 1053.81*	--Rear, 750 meters 051°42′ from front.	22° 19.7′ N 91° 50.0′ E	**F.R.**	92 **28**		Dome.	
	PURSUR RIVER:						
26828	*-Mongla Fairway Buoy.*	21° 26.9′ N 89° 34.4′ E	**L.Fl.W.** period 10s			SAFE WATER RW, pillar, topmark.	**Radar reflector.**
26838	*-Buoy B18.*	21° 46.6′ N 89° 30.0′ E	**Fl.R.** period 10s			PORT (A) R, can, topmark.	
26840 *F 1045.5*	**-Hiran Point.**	21° 47.8′ N 89° 28.4′ E	**Fl.(2)W.** period 20s	115 **35**	**16**	Gray metal framework tower, triangular daymark point up.	
			INDIA-BAY OF BENGAL				
	HUGLI RIVER:						
26842 *F 1018*	*-EASTERN CHANNEL LIGHTSHIP.*	21° 04.2′ N 88° 11.1′ E	**Fl.W.** period 15s		12	Red hull.	
	-RACON		**O(– – –)**				
26846 *F 1023*	*-INTERMEDIATE LIGHTSHIP.*	21° 10.7′ N 88° 12.7′ E	**Fl.(2)W.** period 10s			Red hull.	
26847 *F 1024.5*	*-TALENT LIGHTSHIP.*	21° 17.5′ N 88° 11.2′ E	**Fl.(2)W.** period 10s			Red hull.	
26852 *F 1024*	*-LOWER GASPER LIGHTSHIP.*	21° 22.1′ N 88° 10.0′ E	**Fl.W.** period 8s	49 **15**	8	Red hull.	Q.W. riding light.
26860 *F 1028*	**-Sagar Island.**	21° 39.5′ N 88° 02.8′ E	**Fl.W.** period 3s fl. 0.3s, ec. 2.7s	84 **26**	**17**	Red round tower, white bands; 79.	Visible 315°-180°. **AIS** (MMSI No 004194446). Signal station.
26861 *F 1029*	**-Dariapur.**	21° 47.5′ N 87° 51.8′ E	**Fl.(2)W.** period 20s fl. 1.4s, ec. 1.9s fl. 1.4s, ec. 15.3s	98 **30**	**19**	White round concrete tower, black bands; 85.	
	-RACON		**G(– – •)**				
26862 *F 1031.45*	-Sandia Column.	21° 58.9′ N 88° 02.0′ E	**Fl.W.** period 10s	56 **17**	6	Round masonry tower.	
26863 *F 1031.46*	-Inner Column.	21° 58.4′ N 88° 01.4′ E	**Fl.W.** period 15s	59 **18**	6	Round masonry tower.	
26865 *F 1032.7*	-Haldia channel, S.	22° 00.1′ N 88° 02.9′ E	**Fl.W.** period 10s			Framework tower.	
26868 *F 1034*	-Nayachara, outer column.	22° 01.3′ N 88° 08.4′ E	**Fl.W.** period 10s	45 **14**			

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			INDIA-BAY OF BENGAL				
26869 *F 1034.5*	--Inner column.	22° 01.1′ N 88° 08.0′ E	**Fl.W.** period 1.5s	60 **18**			
26892 *F 1035*	-Diamond Harbor, near customhouse.	22° 11.0′ N 88° 11.4′ E	**Fl.W.R.** period 2s				W. 327°-115°, R.-125°.
26900 *F 1006*	**False Point.**	20° 19.9′ N 86° 44.4′ E	**Fl.(2)W.** period 20s fl. 0.2s, ec. 4.8s fl. 0.2s, ec. 14.8s	125 **38**	**27**	White round masonry tower, red bands; 125.	Visible 205°-045°.
	PARADIP:						
26908 *F 1005.2*	-S. breakwater, head.	20° 15.5′ N 86° 40.8′ E	**Fl.R.** period 5s	33 **10**	7	Red metal column, white bands; 26.	
26912 *F 1005.4*	-N. breakwater, head.	20° 15.8′ N 86° 40.8′ E	**Fl.G.** period 5s	26 **8**	7	Green metal column, white bands; 26.	
26916 *F 1005.6*	-Entrance Range, front.	20° 16.1′ N 86° 40.1′ E	**Fl.W.** period 2s	98 **30**	6	Black and white bands.	Channel limits marked by lights in line.
26918 *F 1005.605*	--Middle, 740 meters 300°18′ from front.	20° 16.3′ N 86° 39.7′ E	**Fl.W.** period 5s	148 **45**	8	Black and white bands.	
26920 *F 1005.61*	--Rear, 1.026 miles 300°18′ from front.	20° 16.6′ N 86° 39.0′ E	**Iso.W.** period 10s	197 **60**	12	Black and white bands.	
26921 *F 1005.611*	-Starboard Range, front.	20° 16.1′ N 86° 40.2′ E	**Fl.G.** period 2s	66 **20**	6	Green and white bands.	Marks starboard side of the channel.
26921.5 *F 1005.612*	--Rear, 345 meters 300°18′ from front.	20° 16.2′ N 86° 40.0′ E	**Fl.G.** period 10s	98 **30**	6	Green and white bands.	
26922 *F 1005.613*	-Port Range, front.	20° 16.0′ N 86° 40.2′ E	**Fl.R.** period 2s	66 **20**	6	Red and white bands.	Marks port side of channel.
26922.5 *F 1005.614*	--Rear, 395 meters 300°18′ from front.	20° 16.1′ N 86° 40.0′ E	**Fl.R.** period 10s	98 **30**	6	Red and white bands.	
26924 *F 1005.8*	-Inner harbor, turning circle Range front.	20° 16.7′ N 86° 40.1′ E	**Fl.W.** period 2s	164 **50**	8	Gray metal framework tower; 164.	Channel limits marked by lights in line, 2 F.G. on NE. side, Fl.R. 3s and F.R. on SW. side.
26928 *F 1005.81*	--Rear, 200 meters 332°42′ from front.	20° 16.8′ N 86° 40.0′ E	**Fl.W.** period 5s	197 **60**	8	Gray metal framework tower; 197.	
26932 *F 1005.9*	-W. side of turning circle.	20° 16.2′ N 86° 40.1′ E	**Fl.G.** period 2s	49 **15**	6	White concrete tower, black stripes.	
26936 *F 1005.92*	-W. side of turning circle, inner.	20° 16.3′ N 86° 40.0′ E	**Fl.(9)R.** period 15s	49 **15**	6	Gray mast, building.	
26937 *F 1004.4*	**Paradip.**	20° 15.3′ N 86° 39.4′ E	**Fl.(3)W.** period 30s	131 **40**	**28**	White round masonry tower, black bands.	**AIS** (MMSI No 004194444).
	RACON		**K(– • –)**				
26940 *F 1003*	**Chandrabhaga.**	19° 52.0′ N 86° 06.5′ E	**Fl.W.** period 10s fl. 0.3s, ec. 9.7s	122 **37**	**26**	White round masonry tower, red bands; 98.	**AIS** (MMSI No 004194443).
26944 *F 1002*	Puri.	19° 47.3′ N 85° 48.3′ E	**Fl.(3)W.** period 20s fl. 0.1s, ec. 4.9s fl. 0.1s, ec. 4.9s fl. 0.1s, ec. 9.9s	95 **29**	10	Black tower, white bands; 82.	**AIS** (MMSI No 004194442).
26946 *F 1000*	**Pryagi.**	19° 28.0′ N 85° 10.0′ E	**Fl.(2)W.** period 10s	131 **40**	**19**	White round tower, red bands; 105.	
26948 *F 0988*	**Gopalpur.**	19° 15.4′ N 84° 54.5′ E	**Fl.W.** period 5s fl. 0.2s, ec. 4.8s	148 **45**	**26**	White round masonry tower, red bands; 105.	**AIS** (MMSI No 004194441).
	RACON		**S(• • •)**				

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			INDIA-BAY OF BENGAL				
26951 *F 0985*	**Baruva.**	18° 52.1′ N 84° 35.1′ E	**Fl.W.** period 15s	98 **30**	**20**	White tower, black bands.	**AIS** (MMSI No 004194440).
26956 *F 0982*	**Kalingapatnam.**	18° 20.4′ N 84° 07.3′ E	**Fl.(3)W.** period 15s	115 **35**	**25**	Hexagonal masonry tower; 101.	**AIS** (MMSI No 004194439).
26960 *F 0980*	**Santapilli.**	18° 04.0′ N 83° 38.2′ E	**Fl.(2)W.** period 10s fl. 0.2s, ec. 2.3s fl. 0.2s, ec. 7.3s	138 **42**	**23**	White round masonry tower, black bands; 72.	**AIS** (MMSI No 004194438).
26964 *F 0978*	Bhimunipatnam, near port office.	17° 53.4′ N 83° 27.4′ E	**Fl.W.** period 9s fl. 0.3s, ec. 8.7s	35 **11**	8	White round masonry tower; 75.	Storm signals.
	VISHAKHAPATNAM:						
26972 *F 0970*	**-Dolphins Nose.**	17° 40.6′ N 83° 17.5′ E	**Fl.W.** period 10s fl. 0.3s, ec. 9.7s	567 **173**	**32**	White square tower, black bands; 62.	**AIS** (MMSI No 004194437).
	-RACON		**O(– – –)**				
26976 *F 0971*	-AVIATION LIGHT.	17° 43.3′ N 83° 13.4′ E	**Al.W.G.** period 4s	39 **12**	W. **27** G. **23**	Tower.	Occasional.
26980 *F 0974.4*	-Sector.	17° 41.2′ N 83° 17.6′ E	**Dir.W.R.G.**	95 **29**	7		F.R. 248°42′-250°42′, F.W.-252°42′, Al.Fl.W.G.-259°42′, F.G.-267°42′, F.W.-271°42′, F.R.-273°42′.
26988 *F 0973.12*	-Fishing Harbour, front.	17° 41.7′ N 83° 18.2′ E	**Fl.R.** period 1.5s	43 **13**			
26992 *F 0973.14*	--Rear, 129 meters 234°30′ from front.	17° 41.7′ N 83° 18.1′ E	**Oc.R.** period 3s	56 **17**			
26996 *F 0973.02*	-N. breakwater, S. head.	17° 41.9′ N 83° 18.3′ E	**Oc.W.R.G.** period 3s	29 **9**	6		W. 265°30′-099°30′, R.-237°30′, G.-265°30′.
27000 *F 0973.04*	-E. breakwater, N. head.	17° 41.8′ N 83° 18.5′ E	**Fl.(2)R.** period 10s	29 **9**	3		
27004 *F 0973.06*	--S. head.	17° 41.3′ N 83° 18.4′ E	**Fl.(3)G.** period 10s	34 **10**	5		
27010 *F 0969.2*	Gangavaram Entrance Range, front.	17° 37.5′ N 83° 13.8′ E	**Q.W.**		12	White four-sided framework tower, red bands; 46.	
27010.5 *F 0969.21*	-Rear, 550 meters 267° from front.	17° 37.5′ N 83° 13.5′ E	**Q.W.**		12	White four-sided framework tower, red bands; 95.	
27012 *F 0968*	**Pudimadaka.**	17° 29.3′ N 83° 00.2′ E	**Fl.(2)W.** period 15s fl. 0.4s, ec. 3.4s fl. 0.4s, ec. 10.8s	115 **35**	**27**	White square masonry tower, red bands; 85.	
27016 *F 0966*	**Pentakota.**	17° 17.9′ N 82° 37.1′ E	**Fl.W.** period 15s fl. 1.5s, ec. 13.5s	59 **18**	**15**	White square masonry tower, black bands; 59.	**AIS** (MMSI No 004194436).
27020 *F 0964*	**Vakalapudi.**	17° 00.9′ N 82° 17.0′ E	**Fl.(3)W.** period 15s	148 **45**	**22**	White round concrete tower, red bands; 148.	**AIS** (MMSI No 004194435).
	RACON		**G(– – •)**				
	KAKINADA BAY:						
27024 *F 0960*	-Sand Spit.	16° 59.4′ N 82° 19.6′ E	**Fl.W.** period 15s	23 **7**			
27026 *F 0962.5*	-W. jetty.	16° 58.9′ N 82° 17.1′ E	**Fl.R.G.** period 5s	20 **6**	4		

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			INDIA-BAY OF BENGAL				
27027 *F 0962.4*	-Terminal, N. point.	16° 58.6′ N 82° 17.0′ E	**Fl.Y.**	7 **2**			
27028 *F 0962*	-Canal, N. training wall.	16° 57.1′ N 82° 16.6′ E	**Fl.(2)W.** period 10s	26 **8**	9	White metal framework tower, black bands; 7.	
27032 *F 0958*	**Sacramento.**	16° 35.1′ N 82° 16.6′ E	**Fl.W.** period 5s fl. 0.2s, ec. 4.8s	140 **43**	**24**	Masonry tower; 148.	Visible 225°-045°. **AIS** (MMSI No 004194434).
27036	*Sacramento Shoal Lighted Buoy.*	16° 32.0′ N 82° 20.0′ E	**Fl.W.** period 4s			Red buoy.	
27040 *F 0957*	**Narasapur.**	16° 19.0′ N 81° 43.5′ E	**Fl.(2)W.** period 15s fl. 0.4s, ec. 3.4s fl. 0.4s, ec. 10.8s	95 **29**	**27**	White square masonry tower, red bands; 85.	**AIS** (MMSI No 004194433).
	RACON		**B(– • • •)**				
27044 *F 0955*	**Machilipatnam.**	16° 14.9′ N 81° 14.0′ E	**Fl.(3)W.** period 20s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 14.5s	161 **49**	**26**	White round concrete tower, black bands; 164.	**AIS** (MMSI No 004194432).
27052 *F 0953*	**Nagayalanka.**	15° 47.1′ N 80° 59.2′ E	**Fl.W.** period 15s fl. 1.2s, ec. 13.8s	112 **34**	**24**	White square masonry tower, red stripes; 121.	**AIS** (MMSI No 004194431).
27054 *F 0952.8*	**Nizampatam.**	15° 53.0′ N 80° 38.3′ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	118 **36**	**23**	White round tower, red bands; 102.	
27055 *F 0952.9*	**Vedarevu.**	15° 47.7′ N 80° 24.7′ E	**Fl.(2)W.** period 15s fl. 0.6s, ec. 1.9s fl. 0.6s, ec. 11.9s	112 **34**	**25**	White round concrete tower, black bands; 98.	**AIS** (MMSI No 004194429).
27056 *F 0952.5*	**Ramayapatnam.**	15° 03.0′ N 80° 02.9′ E	**Fl.W.** period 10s	115 **35**	**26**	White hexagonal concrete tower, red bands; 121.	**AIS** (MMSI No 004194430).
	RACON		**K(– • –)**				(3 & 10cm).
27057 *F 0952.3*	**Iskapalle.**	14° 44.1′ N 80° 05.9′ E	**Fl.(2)W.** period 10s	112 **34**	**15**	White round concrete tower, red stripes; 98.	
27060 *F 0952*	**Krishnapatnam.**	14° 17.1′ N 80° 08.3′ E	**Fl.(3)W.** period 15s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 9.5s	112 **34**	**18**	White hexagonal concrete tower, black bands; 98.	**AIS** (MMSI No 004194428).
	RACON		**C(– • – •)**				
27064 *F 0951*	**Armagon Shoal.**	13° 53.7′ N 80° 12.3′ E	**Fl.W.** period 15s fl. 0.4s, ec. 14.6s	108 **33**	**26**	White round concrete tower, red bands; 121.	**AIS** (MMSI No 004194427).
27068 *F 0950*	**Pulicat.**	13° 25.3′ N 80° 19.6′ E	**Fl.W.** period 5s fl. 0.2s, ec. 4.8s	174 **53**	**26**	White hexagonal concrete tower, black bands; 164.	**AIS** (MMSI No 004194426).
	RACON		**B(– • • •)**				
	MADRAS HARBOR:						
27071 *F 0947*	Ennur, N. breakwater, head.	13° 15.3′ N 80° 21.2′ E	**Fl.G.** period 6s	36 **11**	8		
	RACON		**K(– • –)**				
27072 *F 0936*	**-Madras.**	13° 02.4′ N 80° 16.8′ E	**Fl.(2)W.** period 10s fl. 0.3s, ec. 2.2s fl. 0.3s, ec. 7.2s	187 **57**	**28**	White triangular tower, red bands; 151.	**AIS** (MMSI No 004194425).
	-RACON		**K(– • –)**				

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			INDIA-BAY OF BENGAL				
27076 *F 0940*	-N. arm, outer head.	13° 06.1′ N 80° 18.3′ E	**Fl.R.** period 8s	33 **10**	6	White round stone tower, red stripes; 16.	
27078 *F 0941*	-E. breakwater.	13° 06.3′ N 80° 18.2′ E	**Fl.(3)G.** period 8s				
27080 *F 0942*	-Dufferiu, outer arm, head.	13° 06.4′ N 80° 18.6′ E	**Fl.(2)R.** period 6s	43 **13**	14		
27084 *F 0944*	-W. side of entrance, breakwater, head.	13° 05.9′ N 80° 18.1′ E	**Fl.G.** period 2s	25 **8**	1	Square concrete column.	2 F.R. on radio tower 1.26 km. W., Fl.R. and 3 F.R. on T.V. tower 4.12 km. SW.
27096 *F 0943*	-E. side of entrance.	13° 05.9′ N 80° 18.2′ E	**Fl.R.** period 2s	25 **8**	1	Square concrete column.	
27100 *F 0935*	AVIATION LIGHT 17.4 kilometers 229° from Madras Light.	12° 59.1′ N 80° 10.0′ E	**Al.W.G.** period 7.5s		W. **20** G. **15**	Control tower.	Occasional.
27104 *F 0934*	AVIATION LIGHT 18.9 kilometers 226° from Madras Light.	12° 58.3′ N 80° 09.6′ E	**Fl.R.** period 1.9s	555 **169**			
27108 *F 0932*	**Mahabalipuram.**	12° 36.9′ N 80° 11.5′ E	**Fl.W.** period 10s fl. 0.4s, ec. 9.6s	137 **42**	**30**	Round masonry tower; 85.	**AIS** (MMSI No 004194424).
27110 *F 0929*	**Alam Parai Fort.**	12° 16.5′ N 80° 00.7′ E	**Fl.(3)W.** period 20s fl. 2s, ec. 3s fl. 2s, ec. 3s fl. 2s, ec. 8s	118 **36**	**20**	White masonry tower, red bands; 98.	
27112 *F 0926*	**Pondicherry.**	11° 55.0′ N 79° 49.9′ E	**Fl.(2)W.** period 15s fl. 0.5s, ec. 3.2s fl. 0.5s, ec. 10.8s	157 **48**	**26**	White hexagonal tower, black bands; 151.	**AIS** (MMSI No 004194423).
	RACON		**D(– • •)**				
27120 *F 0920*	Cuddalore.	11° 42.4′ N 79° 46.6′ E	**Fl.W.** period 5s	59 **18**	12	White round concrete tower.	
27126 *F 0919.1*	-Marine terminal.	11° 38.4′ N 79° 46.3′ E	**Fl.(3)W.** period 10s				
	-RACON		**C(– • – •)**				
27132 *F 0919*	**Porto Novo.**	11° 30.3′ N 79° 46.3′ E	**Fl.W.** period 15s fl. 0.4s, ec. 14.6s	118 **36**	**26**	White round concrete tower, red bands; 121.	**AIS** (MMSI No 004194422).
	RACON		**B(– • • •)**				
27134 *F 0918*	**Pumpukar.**	11° 08.6′ N 79° 51.4′ E	**Fl.(4)W.** period 15s	108 **33**	**20**	Tower; 98.	
27136 *F 0916*	Karikal, 201 meters from mouth of Arselar.	10° 55.0′ N 79° 51.2′ E	**Fl.(2)W.** period 10s fl. 1s, ec. 2s fl. 1s, ec. 6s	59 **18**	13	White round concrete tower; 56.	
27138 *F 0915.1*	-Chemplast pier, N. head.	10° 50.9′ N 79° 51.8′ E	**Fl.G.** period 4s		3	White round tower, green bands.	
27138.1 *F 0915*	--S. head.	10° 50.9′ N 79° 51.8′ E	**Fl.R.** period 4s		3	White round tower, red bands.	
27139 *F 0914.531*	Karaikal Port, N. breakwater.	10° 50.5′ N 79° 51.4′ E	**Fl.(2)G.** period 5s	30 **9**	5	Concrete structure; 10.	
27139.1 *F 0914.53*	-S. breakwater.	10° 50.2′ N 79° 51.4′ E	**Fl.(2)R.** period 5s	30 **9**	5	Concrete structure; 10.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			INDIA-BAY OF BENGAL				
27140 *F 0914*	**Nagappattinam.**	10° 46.0′ N 79° 50.9′ E	**Fl.(2)W.** period 20s fl. 0.5s, ec. 2s fl. 0.5s, ec. 17s	158 **48**	**26**	White round masonry tower, black bands; 163.	**AIS** (MMSI No 004194421). **Radiobeacon.**
	RACON		**G(– – •)**				
27144 *F 0910*	**Calimere Point.**	10° 17.5′ N 79° 52.1′ E	**Fl.(3)W.** period 10s fl. 0.3s, ec. 1.5s fl. 0.3s, ec. 1.5s fl. 0.3s, ec. 6.1s	44 **13**	**15**	White round masonry tower; 52.	
	RACON		**K(– • –)** period 95s		**20**		Azimuth coverage 175°-100°. (3cm).
27145 *F 0902*	**Kodikkarai.**	10° 16.9′ N 79° 49.5′ E	**Fl.W.** period 10s	148 **45**	**20**	White round masonry tower, red bands; 147.	**AIS** (MMSI No 004194420).
27148 *F 0901.9*	**Mallipatnam.**	10° 16.3′ N 79° 18.8′ E	**Fl.W.** period 5s	157 **48**	**22**	Tower; 148.	
27150 *F 0901.7*	**Ammapattinam.**	10° 00.8′ N 79° 13.7′ E	**Fl.(2)W.** period 15s fl. 0.5s, ec. 2s fl. 0.5s, ec. 12s	161 **49**	**19**	Black round concrete tower, white bands; 148.	**AIS** (MMSI No 004194419).
27151 *F 0901.5*	**Pasipattanan.**	9° 48.3′ N 79° 04.6′ E	**Fl.(3)W.** period 10s fl. 0.3s, ec. 1.5s fl. 0.3s, ec. 1.5s fl. 0.3s, ec. 6.1s	161 **49**	**19**	White round tower, red bands; 148.	
27152 *F 0901*	-Mandapam Range front.	9° 16.6′ N 79° 08.8′ E	**F.R.**	39 **12**		Beacon.	
27156 *F 0901.1*	--Rear, 350 meters 338° from front.	9° 16.8′ N 79° 08.8′ E	**F.R.**	53 **16**		Beacon.	
27160 *F 0904*	-N. appoach to Mandapam Range, front.	9° 17.0′ N 79° 09.6′ E	**Q.W.**				Occasional.
27164 *F 0904.1*	--Rear, 124 meters 206° from front.	9° 16.9′ N 79° 09.7′ E	**Q.W.**				Occasional.
27167 *F 0906*	-Rameswaram.	9° 19.1′ N 79° 19.8′ E	**Fl.(2)W.** period 20s fl. 0.8s, ec. 2s fl. 0.8s, ec. 16.4s	54 **16**	13	White square concrete tower, red diagonal stripes; 49.	
27168 *F 0900*	-Pamban Channel.	9° 17.3′ N 79° 13.1′ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	94 **29**	9	White masonry tower, black bands; 66.	**AIS** (MMSI No 004194418). Storm signal.
27172 *F 0738*	**Kilakkarai.**	9° 13.5′ N 78° 46.8′ E	**Fl.W.** period 15s	115 **35**	**19**	White hexagonal concrete tower, red bands; 98.	**AIS** (MMSI No 004194417).
27176 *F 0734*	**Pandiyan Tivu.**	8° 47.1′ N 78° 11.8′ E	**Fl.W.** period 10s fl. 0.5s, ec. 9.5s	157 **48**	**28**	White round concrete tower, black stripes; 75.	**AIS** (MMSI No 004194416). Storm signal.
	RACON		**O(– – –)**				
27180 *F 0736*	--Tuticorin Range, front.	8° 48.1′ N 78° 09.6′ E	**Q.W.**	30 **9**	9	Metal framework tower.	
27184 *F 0736.1*	---Rear, 259 meters 277°30′ from front.	8° 48.1′ N 78° 09.5′ E	**Q.W.**	44 **13**		Metal framework tower.	
27188 *F 0735.5*	-N. breakwater, head.	8° 44.9′ N 78° 13.7′ E	**L.Fl.W.** period 5s	29 **9**	10		
27189 *F 0735.6*	--Spur.	8° 45.0′ N 78° 13.6′ E	**Q.G.**				
27189.1 *F 0735.7*	-E. breakwater, head.	8° 44.9′ N 78° 13.5′ E	**Q.R.**				
27192 *F 0735*	-Tuticorin Harbor Range, front.	8° 45.4′ N 78° 13.1′ E	**Q.W.**	66 **20**	8	White framework tower, red bands.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			INDIA-BAY OF BENGAL				
27196 *F 0735.1*	--Rear, 1.47 miles 311°30′ from front.	8° 46.3′ N 78° 12.0′ E	**Oc.W.** period 10s	194 **59**	12	White metal framework tower, black bands.	
27200 *F 0730*	**Manappad Point.**	8° 22.3′ N 78° 03.8′ E	**Fl.(2)W.** period 10s fl. 0.2s, ec. 1.5s fl. 0.2s, ec. 8.1s	148 **45**	**23**	White round masonry tower, red diagonal stripes.	Visible 115°-070°. **AIS** (MMSI No 004194415).
	RACON		**G(– – •)**				
			SRI LANKA (CEYLON)				
27204 *F 0876*	Delft Island, NE. side.	9° 31.7′ N 79° 43.1′ E	**F.W.**	25 **8**	5	Metal beacon.	Fishing light.
27208 *F 0875*	Fort Hammenhiel.	9° 42.7′ N 79° 50.9′ E	**Fl.R.** period 5s	35 **11**	11		
27212 *F 0874*	Kovilan Point, NW. point of Karaitivu Island.	9° 45.7′ N 79° 51.8′ E	**Fl.(2)W.** period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 7.5s	100 **30**	11	White masonry tower; 97.	
27216 *F 0877*	Punkudutivu.	9° 34.2′ N 79° 51.3′ E	**Fl.W.** period 5s	35 **11**	11	Stone building.	
27220 *F 0878*	Jaffna, Jaffnapatam Channel.	9° 37.7′ N 80° 02.1′ E	**Fl.(3)W.** period 15s	20 **6**	13	White concrete tower.	
27228 *F 0870*	Point Pedro.	9° 49.6′ N 80° 15.0′ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	102 **31**	10	White masonry tower; 105.	Visible 090°-330°. A F.R. light of low power is shown from end of customhouse pier.
27232 *F 0866*	Mullaittivu, near mouth of Vattuvakalaru.	9° 16.3′ N 80° 49.2′ E	**Fl.(2)W.** period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 7.5s	67 **20**	10	Metal framework tower; 65.	
27236 *F 0864.2*	Pulmoddai, pier.	8° 56.7′ N 81° 00.1′ E	**Fl.R.**	20 **6**	5		F.W. shown N. and S. of pier, on shore.
	TRINCOMALEE:						
27244 *F 0852*	-Round Island, summit.	8° 30.8′ N 81° 13.6′ E	**Fl.(3)W.R.** period 15s fl. 0.5s, ec. 0.7s fl. 0.5s, ec. 0.8s fl. 0.5s, ec. 12s	103 **31**	10	White round tower; 69.	R. 090°-165°, W.-170°, R.-226°, W.-247°, R.-020°.
27248 *F 0853*	-Chapel Hill.	8° 32.9′ N 81° 14.7′ E	**Fl.W.** period 10s fl. 0.5s, ec. 9.5s	364 **111**	10	White structure, building; 26.	
27252 *F 0862*	-Back Bay, NW. corner of customhouse.	8° 34.7′ N 81° 14.1′ E	**F.R.**	27 **8**		Mast.	Only shown during SW. monsoon. F.R. lights are shown from beacon on head of jetty at No. 1 oiling berth and from the roof of the building about 500 yards south westward.
27254 *F 0858*	-Passenger Pier.	8° 34.0′ N 81° 13.9′ E	**F.R.**				Difficult to distinguish against floodlights.
27256 *F 0857*	-Pepperpot Pier.	8° 33.7′ N 81° 14.0′ E	**F.G.**				
27260 *F 0846*	Batticaloa.	7° 45.3′ N 81° 41.2′ E	**Fl.W.** period 3s	89 **27**	10	White tower; 93.	
27264 *F 0844*	Sangamankanda Point.	7° 01.7′ N 81° 52.7′ E	**Fl.W.** period 5s		10	White concrete tower, brown base.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			SRI LANKA (CEYLON)				
27268 *F 0842*	**Little Basses Reef.**	6° 24.5′ N 81° 43.8′ E	**V.Q.(2)W.** period 10s	110 **34**	**27**	White granite tower, black band, cupola, two galleries; 125.	
27272 *F 0840*	**Great Basses Reef.**	6° 10.9′ N 81° 28.8′ E	**Fl.W.** period 15s fl. 0.4s, ec. 14.6s	110 **34**	**25**	White granite tower, conical roof, two galleries 66 feet apart; 125.	
	RACON		**O(– – –)**				
27276 *F 0836*	**Dondra Head.**	5° 55.3′ N 80° 35.6′ E	**Fl.W.** period 5s fl. 0.2s, ec. 4.8s	153 **47**	**28**	White octagonal tower; 160.	Obscured by Nilewelli Point when bearing less than 253°. Reserve light range 18M.
	RACON		**C(– • – •)**		**20**		(3 & 10cm).
27280 *F 0834*	Weligama Bay, on shore in front of Rest House.	5° 58.0′ N 80° 25.5′ E	**F.R.**	30 **9**	5	Gray concrete column.	Fishing light.
27282 *F 0832*	Koggala Lake.	5° 59.6′ N 80° 20.1′ E	**2 F.R.** (vert.)		12		
27284 *F 0830*	**Point De Galle.**	6° 01.5′ N 80° 13.2′ E	**Fl.(2)W.** period 15s fl. 0.3s, ec. 2.7s fl. 0.3s, ec. 11.7s	93 **28**	**25**	White round tower; 87.	Signal station (by day). F.R. range lights shown from head of No. 1 pier.
	RACON		**G(– – •)**				(3 & 10cm).
27288 *F 0826*	**Barberyn.**	6° 27.8′ N 79° 58.1′ E	**Fl.W.** period 20s fl. 0.5s, ec. 19.5s	150 **46**	**27**	White round tower; 111.	
27292 *F 0824*	Ratmalana AVIATION LIGHT.	6° 49.3′ N 79° 53.2′ E	**Al.Fl.W.G.**	73 **22**		Control tower.	Occasional. **Aero Radiobeacon** 0.5 mile S.
27296 *F 0820*	Mount Lavinia, front.	6° 50.6′ N 79° 51.8′ E	**F.R.**	30 **9**		White concrete beacon; 20.	Fishing light.
27300 *F 0820.1*	-Rear, 55 meters 099° from front.	6° 50.6′ N 79° 51.8′ E	**F.R.**	35 **11**		Coconut tree.	Fishing light.
	COLUMBO HARBOR:						
27303 *F 0783*	-W. breakwater, head.	6° 57.9′ N 79° 49.9′ E	**Fl.G.** period 6s	66 **20**	5	Green metal column, white bands.	
27303.3 *F 0784*	-E. breakwater, head.	6° 57.6′ N 79° 50.3′ E	**Fl.R.** period 6s	66 **20**	5	Red metal column, white bands.	
27304 *F 0785*	-SW. breakwater, head.	6° 57.4′ N 79° 50.7′ E	**Oc.G.** period 5s	56 **17**	13	Concrete tower; 62.	
27308 *F 0787*	--Spur.	6° 57.2′ N 79° 50.7′ E	**Q.G.**	26 **8**	5	Metal column.	Visible 161°-015°.
27312 *F 0786*	--Elbow.	6° 57.2′ N 79° 50.7′ E	**Fl.G.** period 3s	50 **15**	5		Visible 155°-270°. Pilot signal station.
27316 *F 0788*	-NW. breakwater, S. head.	6° 57.3′ N 79° 50.8′ E	**Fl.R.** period 3s fl. 0.5s, ec. 2.5s	42 **13**	10	Round stone tower; 39.	
27318 *F 0789*	--Center.	6° 57.4′ N 79° 50.9′ E	**Dir.W.R.G.**		W. 7 R. 5 G. 5		F.G. 132°-134°42′, F.W.-137°24′, F.R.-140°06′.
27320 *F 0790*	--N. head.	6° 57.7′ N 79° 51.1′ E	**Fl.G.** period 3s fl. 0.5s, ec. 2.5s	42 **13**	10	Round stone tower; 36.	
27324 *F 0791*	-NE. breakwater, head.	6° 57.7′ N 79° 51.2′ E	**F.R.**	44 **13**	10	Concrete tower; 33.	F.R. lights on flour mill 370 meters E.
27328 *F 0795*	-N. pier.	6° 57.5′ N 79° 51.2′ E	**F.R.**	7 **2**	1	Pedestal.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			SRI LANKA (CEYLON)				
27332 *F 0804*	**-Colombo.**	6° 56.2′ N 79° 50.4′ E	**Fl.(3)W.** period 10s	85 **26**	**25**	Black and white checkered round stone tower; 49.	Visible 349°-189°.
27336 *F 0793*	-Fishery Harbor, mole, head.	6° 57.9′ N 79° 51.6′ E	**F.R.**		5	Metal column.	
27340 *F 0805*	-New customhouse.	6° 56.2′ N 79° 50.7′ E	**F.G.**	50 **15**	3	White mast.	
27344 *F 0800*	-Marine railway, guide jetty, head.	6° 56.4′ N 79° 50.9′ E	**F.W.**	17 **5**			
27364 *F 0884*	Mannar Island, W. extremity.	9° 06.5′ N 79° 43.9′ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	55 **17**	10	White concrete tower; 64.	Visible 090°-270°.
27368 *F 0886*	Talaimannar, N. pier, outer head.	9° 06.6′ N 79° 43.8′ E	**Oc.W.** period 10s lt. 7s, ec. 3s	25 **8**	5	Metal column; 20.	Shown when pier is in use.
			INDIA-WEST COAST				
27372 *F 0764.4*	Raatushi.	5° 38.9′ N 73° 17.4′ E	**Fl.(2)W.** period 20s	50 **15**	10	Gray framework tower, black rectangular daymark, 39.	
27376 *F 0764*	Wa-Faru.	5° 38.5′ N 72° 50.5′ E	**Fl.W.** period 10s	50 **15**	10	Gray framework tower, black rectangular daymark; 39.	
27380 *F 0764.2*	Bodutaru.	5° 31.8′ N 72° 48.0′ E	**Fl.(2)W.** period 10s	50 **15**	10	Gray framework tower, black rectangular daymark; 39.	
27384 *F 0764.6*	Kanifushi.	5° 21.9′ N 73° 20.2′ E	**Fl.(2)W.** period 10s	50 **15**	10	Gray framework tower, black rectangular daymark; 39.	
27388 *F 0764.8*	Veligili.	5° 03.8′ N 72° 50.5′ E	**Fl.(2)W.** period 20s	50 **15**	10	Gray framework tower, black rectangular daymark; 39.	
27392 *F 0764.85*	Karidu.	4° 57.5′ N 73° 28.4′ E	**Fl.W.** period 5s	50 **15**	12	Gray framework tower, black rectangular daymark.	
27394 *F 0762.9*	Turakuna.	7° 06.5′ N 72° 53.5′ E	**Fl.W.** period 5s	49 **15**	10		
27396 *F 0763.15*	-Warifuri, No 16.	6° 56.0′ N 73° 08.9′ E	**Fl.W.** period 6s	16 **5**	7	Gray framework tower; 16.	
27400 *F 0763.2*	-Tiladummati, No 13.	6° 35.8′ N 72° 52.5′ E	**Fl.W.** period 6s	16 **5**	7	Gray framework tower, concrete base; 16.	
27402 *F 0763.4*	Makunudu Atoll.	6° 24.6′ N 72° 42.6′ E	**Fl.W.** period 10s	49 **15**	10		
27404 *F 0763.6*	-Miladummadulu, No 12.	6° 10.5′ N 72° 59.6′ E	**Fl.W.** period 6s	16 **5**	7	Gray framework tower, concrete base; 16.	
	MALDIVE ISLANDS:						
27408 *F 0764.9*	-Male Island, No 1.	4° 35.9′ N 73° 29.9′ E	**Fl.Y.** period 6s	16 **5**	7	Gray framework tower, concrete base; 16.	
27411 *F 0765.1*	-Hulule, S. breakwater, N. head.	4° 11.5′ N 73° 31.5′ E	**Fl.G.** period 6s				R. lights on radio masts 300 meters E. Al.Fl.W.G. 6s on control tower 500 meters ESE.
27411.1 *F 0765.11*	--Middle.	4° 11.2′ N 73° 31.5′ E	**Fl.G.** period 4s		3	Green beacon.	
27411.2 *F 0765.13*	Funadhoo.	4° 11.0′ N 73° 31.1′ E	**Fl.R.** period 4s		3	Red beacon.	
27412 *F 0765*	-Male Island, each side of 4 entrances through breakwater.	4° 10.8′ N 73° 30.7′ E	**Fl.R.**				Fl.R. and Fl.G. mark either side of entrances.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			INDIA-WEST COAST				
27412.1 *F 0765.12*	Airport, S. end.	4° 10.6′ N 73° 31.6′ E	**Fl.G.** period 4s		3	Green beacon.	
27414 *F 0765.2*	-Ari Atoll, Gongehe.	4° 13.1′ N 72° 45.3′ E	**Fl.W.** period 5s	49 **15**	10		
27415 *F 0765.4*	--Mandu.	3° 35.9′ N 72° 43.0′ E	**Fl.(2)W.** period 10s	49 **15**	10		
27416 *F 0765.5*	-Felidhu.	3° 40.9′ N 73° 25.1′ E	**Fl.(2)W.** period 10s	50 **15**	10	Gray framework tower, black rectangular daymark; 39.	
27420 *F 0765.6*	-Felidu, No 2.	3° 30.7′ N 73° 17.1′ E	**Fl.W.** period 6s	16 **5**	7	Gray framework tower; 16.	
27424 *F 0765.65*	-Foteo.	3° 27.7′ N 73° 45.5′ E	**Fl.(2)W.** period 10s	50 **15**	10	Gray framework tower, black rectangular daymark; 39.	
27428 *F 0765.8*	-Furana.	3° 16.8′ N 72° 59.6′ E	**Fl.W.** period 6s	15 **5**	7	Gray framework tower; 16.	
27432 *F 0766*	-Maavaru.	3° 05.3′ N 72° 50.5′ E	**Fl.(2)W.** period 20s	50 **15**	10	Gray framework tower, black rectangular daymark; 39.	
27436 *F 0766.6*	-Raimandu.	3° 05.4′ N 73° 38.3′ E	**Fl.W.** period 10s	50 **15**	10	Gray framework tower, black rectangular daymark; 39.	
27440 *F 0766.2*	-Meedhu.	3° 00.1′ N 73° 00.5′ E	**Fl.W.** period 6s	15 **5**	7	Gray framework tower; 16.	
27444 *F 0766.65*	-Delufuri.	2° 45.8′ N 73° 25.3′ E	**Fl.(2)W.** period 10s	50 **15**	10	Gray framework tower, black rectangular daymark; 39.	
27448 *F 0766.4*	-Kudahavadhoo.	2° 40.1′ N 72° 52.3′ E	**Fl.(2)W.** period 10s	50 **15**	10	Gray framework tower, black rectangular daymark; 39.	
27452 *F 0766.8*	-Wilifuri.	2° 30.7′ N 73° 18.6′ E	**Fl.W.** period 5s	50 **15**	10	Gray framework tower, black rectangular daymark; 39.	
27456 *F 0767*	-Guradu.	2° 19.2′ N 73° 19.0′ E	**Fl.W.** period 6s	15 **5**	7	Gray framework tower; 16.	
27460 *F 0767.2*	-Waduni.	2° 01.3′ N 73° 21.4′ E	**Fl.W.** period 6s	16 **5**	7	Gray framework tower; 16.	
27464 *F 0767.05*	-Isdu.	2° 07.9′ N 73° 35.2′ E	**Fl.(2)W.** period 10s	49 **15**	10	Gray framework tower, black rectangular daymark; 39.	
27466 *F 0767.6*	-Suvadiva Atoll, Kudalafari.	0° 53.9′ N 73° 21.2′ E	**Fl.W.** period 5s	49 **15**	10		
27467 *K 0813.2*	-Addu Atoll, Bushy Islet.	0° 36.7′ S 73° 08.9′ E	**Fl.(2)W.** period 10s	16 **5**	7	Framework tower, concrete base.	
27468 *F 0758*	**Minicoy Island.**	8° 16.0′ N 73° 01.6′ E	**Fl.W.** period 15s fl. 0.7s, ec. 14.3s	153 **47**	**26**	White round masonry tower; 157.	Obscured by foliage 223°-226° within 6 miles, 238°-246° within 4 miles and 270°-273° within 2 miles. Storm signal.
	RACON		**G(– – •)** period 93s		**18**		Azimuth coverage 192°-150°. (3cm).
27470 *F 0758.1*	-E. side.	8° 17.2′ N 73° 03.9′ E	**Fl.(2)W.** period 10s fl. 1s, ec. 2s fl. 1s, ec. 6s	72 **22**	12	White masonry tower, blue bands; 72.	
27472 *F 0724*	**Muttum Point.**	8° 07.3′ N 77° 19.0′ E	**Fl.W.** period 5s fl. 0.2s, ec. 4.8s	141 **43**	**23**	White hexagonal masonry tower, black bands; 66.	Visible 285°-115°.
	RACON		**M(– –)**				
27476 *F 0720*	Kolachel, base of flagstaff.	8° 10.3′ N 77° 14.9′ E	**F.R.**	59 **18**	7	White platform.	Visible 286°-107°. Occasional.
27480 *F 0722*	-663 meters 094° from flagstaff.	8° 10.3′ N 77° 15.2′ E	**F.W.**	30 **9**	5	Wooden platform, white masonry column, black bands; 16.	Shown Sep. 14 to May 15.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			INDIA-WEST COAST				
27484 *F 0726*	**Cape Comorin.**	8° 04.8′ N 77° 32.7′ E	**Fl.(2)W.** period 20s fl. 0.7s, ec. 3.3s fl. 0.7s, ec. 15.3s	207 **63**	**29**	White square masonry tower, red bands; 98.	**AIS** (MMSI No 004192248).
	RACON		**C(– • – •)**				
27488 *F 0727*	-Kanniya Kumari.	8° 04.8′ N 77° 32.8′ E	**F.W.**	162 **49**		Concrete tower; 33.	Fishing light.
27492 *F 0718*	**Vilinjam.**	8° 23.0′ N 76° 58.8′ E	**Fl.W.** period 15s fl. 0.5s, ec. 14.5s	186 **57**	**31**	White round masonry tower, red bands; 118.	**AIS** (MMSI No 004192247).
	RACON		**O(– – –)**				
27496 *F 0717*	**Trivandrum** AVIATION LIGHT.	8° 28.7′ N 76° 55.0′ E	**Al.W.G.** period 4s	50 **15**	**20**	Tower.	F.R. lights on radio masts 4.7 miles ENE. and 3.8 miles NNW. Occasional.
27502 *F 0715*	**Anjengo.**	8° 40.4′ N 76° 45.3′ E	**Fl.(2)W.** period 20s	125 **38**	**19**	White round concrete tower, black bands; 118.	
27504 *F 0712*	**Quilan.**	8° 52.8′ N 76° 33.9′ E	**Fl.(3)W.** period 15s fl. 0.1s, ec. 3.7s fl. 0.1s, ec. 3.7s fl. 0.1s, ec. 7.3s	138 **42**	**18**	White round masonry tower, red diagonal stripes; 135.	**AIS** (MMSI No 004192246).
27512 *F 0710*	**Kovilthottam.**	8° 59.1′ N 76° 31.5′ E	**Fl.W.** period 5s	64 **20**	**15**	White square masonry tower, black bands; 62.	Signal station.
27516 *F 0706*	**Alleppey.**	9° 29.6′ N 76° 19.3′ E	**Fl.W.** period 15s fl. 0.8s, ec. 14.2s	108 **33**	**25**	White round masonry tower, red bands; 93.	F.R. shown from monsoon anchorage at Pathiankara, 17 miles S. of Aleppey, from about June 15 to Sept. 16; position varies in accordance with shifting of mud banks. **AIS** (MMSI No 004192245).
27517 *F 0706.5*	**Tottapalli.**	9° 19.2′ N 76° 22.8′ E	**Fl.(2)W.** period 10s	49 **15**	**15**	White galvanized trestle tower; 49.	
27520 *F 0705*	**Manakkodam.**	9° 44.9′ N 76° 17.2′ E	**Fl.(2)W.** period 10s fl. 0.3s, ec. 2.2s fl. 0.3s, ec. 7.2s	112 **34**	**20**	White square concrete tower; 112.	
	COCHIN:						
27528 *F 0698*	**-Cochin.**	9° 59.9′ N 76° 13.3′ E	**Fl.(4)W.** period 20s fl. 0.4s, ec. 2.9s fl. 0.4s, ec. 2.9s fl. 0.4s, ec. 2.9s fl. 0.4s, ec. 9.7s	161 **49**	**28**	White round concrete tower, red bands; 151.	**AIS** (MMSI No 004192244).
	-RACON		**K(– • –)**				
27540 *F 0700*	-Range, front, 498 meters 258°36′ from common rear.	9° 58.5′ N 76° 15.9′ E	**Q.W.**	52 **16**	11	White metal framework tower, red bands.	
27544 *F 0703*	-Ernakulam Channel Range, front, 468 meters 141°06′ from common rear.	9° 58.3′ N 76° 16.3′ E	**Q.W.**	22 **7**	11	White metal framework tower, red bands.	
27548 *F 0700.1*	--Common Rear.	9° 58.5′ N 76° 16.1′ E	**2 Iso.W.** period 4s	85 **26** 39 **12**	11	White metal framework tower, red bands.	
27552 *F 0702*	-Range, front.	9° 58.0′ N 76° 16.7′ E	**Q.W.**	30 **9**	11	White metal framework tower, red bands.	
27556 *F 0702.1*	--Rear, 360 meters 107°30′ from front.	9° 58.0′ N 76° 16.9′ E	**Iso.W.** period 4s	49 **15**	11	White metal framework tower, red bands.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			INDIA-WEST COAST				
27560 *F 0694.5*	**Periyar River.**	10° 12.2′ N 76° 09.5′ E	**Fl.(3)W.** period 20s	98 **30**	**24**	White square concrete tower, black bands; 112.	
	RACON		**D(– • •)**				
27564 *F 0693*	**Chetwai.**	10° 33.1′ N 76° 01.1′ E	**Fl.(2)W.** period 20s fl. 0.4s, ec. 2.9s fl. 0.4s, ec. 16.3s	108 **33**	**18**	White round concrete tower, red bands; 98.	
27572 *F 0752*	Kiltan Island, N. end.	11° 29.6′ N 73° 00.1′ E	**Fl.(2)W.** period 15s fl. 0.5s, ec. 2s fl. 0.5s, ec. 12s	33 **10**	11	White square brick masonry tower; 30.	Visible 344°-267°.
27574 *F 0752.5*	-NW. reef.	11° 29.5′ N 72° 59.8′ E	**Fl.G.** period 3s	10 **3**	7	White lattice pillar beacon, green bands.	
27576 *F 0754*	--S. end.	11° 28.2′ N 73° 00.6′ E	**Fl.W.** period 10s fl. 0.5s, ec. 9.5s	134 **41**	**18**	White round stone tower, red bands; 135.	
	--RACON		**O(– – –)**				
27580 *F 0750*	-Bitra.	11° 35.7′ N 72° 11.5′ E	**Fl.(2)W.** period 10s	108 **33**	9	White metal framework tower, red bands; 98.	
27588 *F 0749*	-Chetlat Island.	11° 41.7′ N 72° 43.0′ E	**Fl.(3)W.** period 30s	118 **36**	8	White framework tower, black band; 98.	**Radiobeacon.**
27592 *F 0754.2*	-Kadmat Island.	11° 15.2′ N 72° 47.4′ E	**Fl.(4)W.** period 20s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 15s	112 **34**	8	White framework tower; 98.	
	-RACON		**G(– – •)**				
27596 *F 0754.4*	-Amini Island.	11° 06.7′ N 72° 43.3′ E	**Fl.W.** period 15s fl. 0.5s, ec. 14.5s	108 **33**	11	Black metal framework tower, white bands; 98.	
27598 *F 0754.6*	Thinnakara Islet.	10° 56.6′ N 72° 19.0′ E	**Fl.W.** period 5s	39 **12**	9	Beacon.	
27600 *F 0754.7*	-Agatti Island, N. end.	10° 52.5′ N 72° 12.4′ E	**Fl.(3)W.** period 30s fl. 1s, ec. 3s fl. 1s, ec. 3s fl. 1s, ec. 21s	115 **35**	10	White framework tower; 98.	
	-RACON		**B(– • • •)**				
27604 *F 0756*	**Suheli Par,** Cheriyakara Islet.	10° 02.4′ N 72° 17.0′ E	**Fl.(2)W.** period 20s	118 **36**	**19**	White metal column, red band; 121.	Visible 207°-199°.
	RACON		**O(– – –)** period 95s		**18**		Azimuth coverage 285°-250°. (3cm).
27608 *F 0755.6*	-Valiyakara Islet.	10° 08.2′ N 72° 19.7′ E	**Fl.W.** period 15s	43 **13**	6	White wooden framework tower; 39.	Visible 000°-325°.
27612 *F 0757*	**-Kalpeni.**	10° 05.0′ N 73° 39.0′ E	**Fl.(3)W.** period 20s fl. 0.5s, ec. 3.4s fl. 0.5s, ec. 3.4s fl. 0.5s, ec. 11.7s	144 **44**	**18**	White round stone tower, black bands; 131.	Visible 195°-190°.
27616 *F 0755*	**-Androth Island.**	10° 48.7′ N 73° 42.2′ E	**Fl.(2)W.** period 10s fl. 0.5s, ec. 1s fl. 0.5s, ec. 8s	144 **44**	**16**	White square masonry tower, black bands; 108.	
	-RACON		**D(– • •)**				
27620 *F 0755.2*	--W. end.	10° 48.7′ N 73° 39.7′ E	**Fl.W.** period 15s	49 **15**	**16**	White concrete column; 33.	Visible 041°-247°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			INDIA-WEST COAST				
27624 *F 0755.5*	**-Kavarat Island.**	10° 33.6′ N 72° 38.8′ E	**Fl.W.** period 5s fl. 0.3s, ec. 4.7s	131 **40**	**18**	White concrete tower; 125.	
	-RACON		**K(– • –)**				
27632 *F 0692*	**Ponnani.**	10° 46.5′ N 75° 55.1′ E	**Fl.W.** period 15s fl. 0.5s, ec. 14.5s	108 **33**	**26**	White round concrete tower, black bands; 98.	**AIS** (MMSI No 004192243).
27636 *F 0689*	**Beypore.**	11° 09.4′ N 75° 48.3′ E	**Fl.(2)W.** period 15s	105 **32**	**24**	White octagonal masonry tower, red bands; 98.	**AIS** (MMSI No 004192242). Storm signal.
	RACON		**G(– – •)**				
	CALICUT:						
27640 *F 0686*	-Calicut.	11° 15.5′ N 75° 46.2′ E	**Fl.(2)W.** period 6s fl. 0.3s, ec. 1.4s fl. 0.3s, ec. 4s	56 **17**	10	White masonry tower; 50.	Storm signals. Night morse signals from sunset to 2400 and 0400 to sunrise.
27652 *F 0682*	**Kadalur Point.**	11° 28.1′ N 75° 38.2′ E	**Fl.W.** period 5s fl. 0.2s, ec. 4.8s	187 **57**	**23**	White round masonry tower, black bands; 115.	
27660 *F 0678*	Mahe, S. side of river entrance.	11° 42.1′ N 75° 31.8′ E	**Fl.(2)W.** period 10s	98 **30**	12	White mast, masonry base; 43.	
27664 *F 0674*	Tellicherry, fort wall.	11° 44.9′ N 75° 29.2′ E	**Fl.(3)W.** period 9s fl. 0.3s, ec. 1.5s fl. 0.3s, ec. 1.5s fl. 0.3s, ec. 5.1s	89 **27**	10	White masonry tower.	Visible 322°-120°.
27668 *F 0672*	**Cannanore.**	11° 51.7′ N 75° 21.4′ E	**Fl.W.** period 10s fl. 0.5s, ec. 9.5s	115 **35**	**18**	White round concrete tower, red bands; 75.	
27672 *F 0671*	Azhikal.	11° 56.5′ N 75° 18.2′ E	**Fl.(2)W.** period 8s	89 **27**	10		Storm signal.
27676 *F 0669.5*	**Kotte Kunnu.**	12° 00.4′ N 75° 12.1′ E	**Fl.(2)W.** period 20s	203 **62**	**22**	White masonry tower, red bands; 59.	**AIS** (MMSI No 004192241).
	RACON		**K(– • –)**				
27680 *F 0668.5*	**Kasaragod.**	12° 30.3′ N 74° 58.4′ E	**Fl.(3)W.** period 20s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 14.5s	118 **36**	**26**	White octagonal concrete tower, black bands; 98.	**AIS** (MMSI No 004192240). Storm signal.
27684 *F 0668*	Mangolore, S. part of Marine Yard.	12° 50.9′ N 74° 50.3′ E	**Fl.W.** period 3s fl. 0.3s, ec. 2.7s	33 **10**	11	White round masonry tower, black bands; 36.	Visible 018°-153°. Storm signals.
27688 *F 0666*	-New Mangalore Range, front.	12° 55.8′ N 74° 49.3′ E	**Q.W.**	56 **17**	6	White square concrete tower.	
27692 *F 0666.1*	--Rear, 630 meters 078°54′ from front.	12° 55.8′ N 74° 49.6′ E	**Oc.W.** period 10s	89 **27**	6	Red square concrete tower, white bands.	
27696 *F 0664*	-Airfield, AVIATION LIGHT.	12° 57.7′ N 74° 53.4′ E	**Al.W.G.** period 7.5s	374 **114**	**28**	Control tower.	Occasional.
27700 *F 0660*	**Suratakal Point.**	13° 00.3′ N 74° 47.4′ E	**Fl.W.** period 10s fl. 0.4s, ec. 9.6s	144 **44**	**31**	White square masonry tower, red bands; 118.	**AIS** (MMSI No 004192239).
	RACON		**C(– • – •)**				
27704 *F 0658*	**Kap.**	13° 13.5′ N 74° 44.1′ E	**Fl.(3)W.** period 20s fl. 0.2s, ec. 3.8s fl. 0.2s, ec. 3.8s fl. 0.2s, ec. 11.8s	140 **43**	**24**	White masonry tower, black bands; 89.	**AIS** (MMSI No 004192238).

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			INDIA-WEST COAST				
27708 *F 0655*	**Malpe.**	13° 20.7′ N 74° 41.0′ E	**Fl.W.** period 3s	94 **29**	**16**	White square masonry tower.	
27709 *F 0656*	-N. breakwater.	13° 20.9′ N 74° 41.5′ E	**Fl.R.** period 3s	36 **11**	3		Shown Sep. 1 to May 31.
27710 *F 0657*	-S. breakwater.	13° 21.0′ N 74° 41.6′ E	**Fl.G.** period 3s	36 **11**	3		Shown Sep. 1 to May 31.
27712 *F 0652*	**Coondapoor,** S. side of river.	13° 37.4′ N 74° 40.2′ E	**Fl.(2)W.** period 10s	115 **35**	**18**	White round concrete tower, red bands; 105.	
27716 *F 0651*	**-Tippu Sultan Gudda.**	13° 39.6′ N 74° 39.5′ E	**Fl.(2)W.** period 10s	98 **30**	**18**	Concrete tower; 98.	
27724 *F 0648*	**Bhatkal.**	13° 57.9′ N 74° 32.0′ E	**Fl.(2)W.** period 20s	184 **56**	**27**	White square masonry tower on fort; 46.	Visible 310°-129°, 132°-160°. **AIS** (MMSI No 004192237). Storm signal.
	Auxiliary light.		**F.R.**	118 **36**	**17**	Metal mast; 6.	Visible 319°-012°.
27732 *F 0644*	**Honavar,** in hospital compound.	14° 16.6′ N 74° 26.4′ E	**Fl.W.** period 15s	135 **41**	**18**	Red octagonal tower, white bands; 79.	**AIS** (MMSI No 004192236).
27744 *F 0638*	**Tadri,** N. side of entrance.	14° 30.9′ N 74° 20.5′ E	**Fl.(3)W.** period 20s	124 **38**	**18**	White hexagonal stone tower, black bands; 26.	
27748 *F 0637*	Kukra Island.	14° 42.5′ N 74° 14.4′ E	**Fl.(3)W.** period 10s fl. 0.3s, ec. 1.7s fl. 0.3s, ec. 1.7s fl. 0.3s, ec. 5.7s	217 **66**	9	White tower, black bands.	Shown Sep. 16 to May 15.
	KARWAR BAY:						
27752.1 *F 0636.2*	-Karwar Harbor, Anjadip Island, E. Head.	14° 45.2′ N 74° 07.4′ E	**Fl.R.** period 3s	33 **10**	5		
27752.2 *F 0636.5*	--Round Island, S. Breakwater.	14° 45.5′ N 74° 07.7′ E	**Fl.G.** period 3s	39 **12**	5	Green beacon.	
27752.3 *F 0636.6*	--Range, front.	14° 46.5′ N 74° 07.5′ E	**Q.W.**	59 **18**	5	Red and white tower; 33.	
27752.4 *F 0636.7*	---Rear, 420 meters 000° from front.	14° 46.8′ N 74° 07.5′ E	**Fl.W.** period 5s	105 **32**	5	Red and white tower; 72.	
27752.5 *F 0636.8*	Kwada Bay, Breakwater.	14° 45.0′ N 74° 09.9′ E	**Fl.R.** period 5s	30 **9**	7	White square masonry tower; 13.	
27752.6 *F 0636.9*	-Kwada Island.	14° 44.1′ N 74° 09.9′ E	**Fl.G.** period 5s	43 **13**	7	Red square masonry tower; 13.	
27756 *F 0634*	**-Oyster Rocks.**	14° 49.2′ N 74° 03.6′ E	**Fl.W.** period 10s fl. 0.2s, ec. 9.8s	208 **63**	**26**	White round masonry tower, red bands, red cupola; 62.	**AIS** (MMSI No 004192235).
	-RACON		**D(– • •)**				
27758	**Betul.**	15° 08.7′ N 73° 57.5′ E	**Fl.W.** period 15s	289 **88**	**20**		
	GOA:						
27760 *F 0622*	**-Marmagoa,** breakwater, N. head.	15° 25.1′ N 73° 47.5′ E	**Fl.W.R.G.** period 5s fl. 1.5s, ec. 3.5s	85 **26**	W. **20** R. **16** G. **16**	White concrete tower; 75.	W. 080°-120°, R.-197° 30′, W.-304°, G.-080°. **Radar reflector.**
27764 *F 0622.2*	-Mole, head.	15° 25.1′ N 73° 47.6′ E	**Fl.W.** period 10s fl. 1s, ec. 9s	26 **8**	10	White masonry tower; 20.	Fl.R. 3s mark mooring dolphins SE.
27764.4 *F 0623*	-Vasco Bay, W. transit, front.	15° 24.0′ N 73° 48.6′ E	**F.G.**	26 **8**		Beacon.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			INDIA-WEST COAST				
27764.41 *F 0623.1*	--Rear.	15° 24.0′ N 73° 48.6′ E	**F.G.**	33 **10**		Beacon.	
27764.5 *F 0623.2*	--E. transit, front.	15° 24.0′ N 73° 48.6′ E	**F.R.**	26 **8**		Beacon.	
27764.51 *F 0623.3*	---Rear.	15° 24.0′ N 73° 48.6′ E	**F.R.**	33 **10**		Beacon.	
27766	-Marmagao Signal Station RACON	15° 24.8′ N 73° 47.2′ E	**G(– – •)**				Tower marked by R. lights.
27768 *F 0628*	-St. George Island.	15° 21.2′ N 73° 45.8′ E	**Fl.(4)W.R.** period 20s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 13.5s	306 **93**	W. 9 R. 6	White round concrete tower, black stripes; 52.	R. 185°-225°, W.-185°.
	-Aguada Bay:						
27772 *F 0606*	**--Aguada.**	15° 29.5′ N 73° 46.4′ E	**Fl.(3)W.** period 20s fl. 0.4s, ec. 3.5s fl. 0.4s, ec. 3.5s fl. 0.4s, ec. 11.8s	279 **85**	**27**	White rectangular concrete tower; 72.	**AIS** (MMSI No 004192234).
	--RACON		**O(– – –)**				
27776 *F 0607*	---SE. of Aguada.	15° 29.4′ N 73° 46.4′ E	**Fl.R.** period 3s	86 **26**	12	White round tower; 39.	Shown Sep. 1 to May 31.
27780 *F 0610*	--Panaji entrance Range, front.	15° 29.7′ N 73° 49.0′ E	**Fl.W.** period 3s	75 **23**	6	White round masonry tower; 72.	Shown Sep. 1 to May 31.
27784 *F 0610.1*	---Rear, 1.17 miles 053°54′ from front.	15° 30.4′ N 73° 50.0′ E	**Fl.W.** period 3s	184 **56**	8	White concrete tower, white triangular daymark point up, red band; 36.	Shown Sep. 1 to May 31.
27788 *F 0613*	--Tejo Range, front.	15° 29.3′ N 73° 48.6′ E	**Q.R.**	36 **11**	5	White concrete columns, white round concrete tower, black bands; 30.	Shown Sep. 15 to May 31.
27792 *F 0613.1*	---Rear, 90 meters 191°18′ from front.	15° 29.3′ N 73° 48.6′ E	**F.R.**	46 **14**	8	White pyramidal concrete tower, white square concrete tower, black bands, white triangular daymark point up; 39.	Shown Sep. 15 to May 31.
27796 *F 0614*	---Raaj-Magus.	15° 30.0′ N 73° 48.7′ E	**Fl.G.** period 1.5s	42 **13**	3	White round tower; 39.	Shown Sep. 15 to May 15.
27800 *F 0600*	**Vengurla.**	15° 51.3′ N 73° 36.9′ E	**Fl.R.** period 5s fl. 0.3s, ec. 4.7s	269 **82**	**24**	White hexagonal masonry tower, black bands; 43.	Storm signals. **AIS** (MMSI No 004192233).
27804 *F 0598*	**Vengurla Rocks (Burnt Islands).**	15° 53.4′ N 73° 27.7′ E	**Fl.(2)W.** period 20s fl. 0.3s, ec. 4.7s fl. 0.3s, ec. 14.7s	162 **49**	**26**	White metal tower, red bands; 66.	Partially obscured by islands in the vicinity.
	RACON		**D(– • •)**				
	MALVAN BAY:						
27808 *F 0597*	-Sindhudrug Janjira.	16° 02.4′ N 73° 27.6′ E	**Fl.W.** period 5s	43 **13**	5		Shown Sep. 1 to May 31.
27820 *F 0596*	-On beach, E. side of bay, front.	16° 03.0′ N 73° 28.2′ E	**F.R.**	33 **10**	4	White mast; 13.	Visible 023°-114°. Shown Sep. 16 to Jun. 15, weather permitting.
27824 *F 0596.1*	--Rear, 220 meters 075°32′ from front.	16° 03.0′ N 73° 28.3′ E	**Fl.G.** period 3s fl. 0.3s, ec. 2.7s	59 **18**	8	White and red checkered metal framework tower; 46.	Visible 073°-079°. Shown Sep. 16 to Jun. 15, weather permitting.
27828 *F 0590*	**Devgarh Harbor.**	16° 23.3′ N 73° 22.3′ E	**Fl.(4)W.** period 23s	138 **42**	**25**	White round masonry tower, black bands; 36.	Storm signals. F.R. light close SSW. **AIS** (MMSI No 004192232).

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			INDIA-WEST COAST				
27832 *F 0592*	Achra Point.	16° 12.0′ N 73° 25.8′ E	**Fl.(2)W.** period 6s	162 **49**	8	Framework tower; 30.	Shown Sep. 1 to May 31.
27836 *F 0588*	Vijayadrug Harbor, NE. corner of fort.	16° 33.7′ N 73° 19.9′ E	**L.Fl.W.R.G.** period 9s fl. 2s, ec. 7s	52 **16**	5	White metal tower, red bands; 20.	G. 270°-045° partially obscured by trees, R.-090°, W.-270°.
27840 *F 0586*	**Rajapur, Wagapur Point.**	16° 36.3′ N 73° 19.3′ E	**Fl.W.** period 15s fl. 0.4s, ec. 14.6s	150 **46**	**29**	White square concrete tower, black bands; 66.	Storm signals. **AIS** (MMSI No 004192231).
27844 *F 0587*	Musargagi Point.	16° 37.2′ N 73° 20.0′ E	**Fl.(2)W.** period 7.5s	114 **35**	8	Framework tower; 30.	Shown Sep. 1 to May 31.
27850 *F 0583*	Pawas Point.	16° 53.6′ N 73° 16.7′ E	**Fl.(2)W.** period 15s	36 **11**	4	White metal structure, red bands.	
27856 *F 0580*	**Ratnagiri.**	16° 59.3′ N 73° 16.4′ E	**Fl.(2)W.** period 10s fl. 0.4s, ec. 1.6s fl. 0.4s, ec. 7.6s	336 **102**	**28**	White round concrete tower, black bands; 49.	Visible 256°-166°. Storm signals. **AIS** (MMSI No 004192230).
	Auxiliary light.		**F.R.**	285 **87**	9	Concrete pedestal.	Visible 303°-357°.
	RACON		**G(– – •)**				
27864 *F 0579*	Warori Bluff.	17° 11.7′ N 73° 14.3′ E	**Fl.W.** period 10s	165 **50**	8	Framework tower; 30.	Shown Sep. 1 to May 31.
27868 *F 0578*	**Jaigarh.**	17° 17.9′ N 73° 11.4′ E	**Fl.(4)W.** period 20s fl. 0.2s, ec. 2.6s fl. 0.2s, ec. 2.6s fl. 0.2s, ec. 2.6s fl. 0.2s, ec. 11.4s	133 **41**	**24**	Red metal tower, white bands; 69.	Visible 303°30′-242°30′. Storm signals.
27880 *F 0577*	Boria Bay.	17° 23.1′ N 73° 11.4′ E	**Fl.R.** period 5s	123 **37**	6	Framework tower; 30.	Shown Sep. 1 to May 31.
27884 *F 0576*	Palshet.	17° 26.6′ N 73° 11.3′ E	**Fl.(2)W.** period 6s	192 **59**	8	Framework tower; 30.	Obscured when bearing more than 141°. Shown Sep. 1 to May 31.
27886	Kathalwadi Platform.	17° 32.0′ N 73° 04.8′ E	**Fl.Y.**				**Gong:** Mo.(U) 15s.
	PORT DABHOL:						
27888 *F 0566*	**-Tolkeshwar Point.**	17° 34.0′ N 73° 08.5′ E	**Fl.(3)W.** period 15s fl. 0.4s, ec. 2.6s fl. 0.4s, ec. 2.6s fl. 0.4s, ec. 8.6s	342 **104**	**21**	White square masonry tower; 45.	**AIS** (MMSI No 004192229).
27892 *F 0570*	-Fort Anjanwel, N. point Range, front.	17° 34.3′ N 73° 09.3′ E	**Fl.W.** period 3s fl. 0.3s, ec. 2.7s	30 **9**	5	Concrete post, triangular daymark point up; 10.	Shown Sep. 1 to Jun. 30.
27896 *F 0570.1*	--Yeldur Hill, rear, 1335 meters 081° from front.	17° 34.4′ N 73° 10.0′ E	**Q.R.**	98 **30**	8	White metal tower; 13.	Shown Sep. 1 to Jun. 30.
27904 *F 0564*	Harnai (Herni) Promontory.	17° 48.6′ N 73° 05.3′ E	**Fl.R.** period 5s fl. 0.5s, ec. 4.5s	95 **29**	8	White masonry tower; 33.	Visible 280°-154°. Storm signals.
27908 *F 0562*	**Nanwell Point.**	18° 16.8′ N 72° 56.2′ E	**Fl.(3)W.** period 15s fl. 0.3s, ec. 2.2s fl. 0.3s, ec. 2.2s fl. 0.3s, ec. 9.7s	217 **66**	**18**	White octagonal masonry tower, red bands; 62.	**AIS** (MMSI No 004192228).
	Auxiliary Light.		**F.R.**	174 **53**	4		Visible 057°-075°.
27912 *F 0563*	Srivardhan Bay.	18° 03.1′ N 72° 59.7′ E	**Q.(4)W.** period 5s	152 **46**	8	Framework tower; 30.	Shown Sep. 1 to May 31.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			INDIA-WEST COAST				
27916 *F 0559*	Janjira, on Bandar Hill.	18° 18.9′ N 72° 57.6′ E	**Fl.(2)W.** period 15s	261 **80**	8	Framework tower; 30.	Shown Sep. 1 to May 31.
27924 *F 0557.6*	Chaul Kadu Reefs.	18° 35.8′ N 72° 50.9′ E	**Fl.R.** period 3s fl. 0.3s, ec. 2.7s	55 **17**	4	White round masonry tower; 56.	
27928 *F 0558*	Chaul.	18° 32.3′ N 72° 54.4′ E	**Fl.W.** period 3s fl. 1s, ec. 2s	108 **33**	13	White square masonry tower, black bands; 52.	**AIS** (MMSI No 004192227).
	RACON		**O(– – –)**				
27932 *F 0557*	Alibag, Kolaba Fort.	18° 38.1′ N 72° 51.9′ E	**F.W.G.**	32 **10**	5		Shown Sep. 1 to May 31. G. 340°-070°, W.-145°. Storm signals. Fishing light.
27936 *F 0556*	**Khanderi Island.**	18° 42.2′ N 72° 48.8′ E	**Fl.(2)W.R.** period 10s fl. 0.3s, ec. 2.6s fl. 0.3s, ec. 6.8s	154 **47**	W. **25** R. **22**	Octagonal tower, building; 98.	R. 336°-001°, W.-201°.
27940 *F 0556.5*	-Landing Place Range, front.	18° 42.3′ N 72° 48.9′ E	**F.R.**	52 **16**			Occasional.
27944 *F 0556.51*	--Rear, 168° from front.	18° 42.2′ N 72° 49.9′ E	**F.R.**	62 **19**			Occasional.
	BOMBAY:						
27952 *F 0514*	**-Prongs Reef.**	18° 52.7′ N 72° 48.0′ E	**Fl.W.** period 10s	135 **41**	**23**	Round tower, red, white and black bands; 171.	Visible 232°-171°.
	RACON		**G(– – •)**				
27956 *F 0516*	-Sunk Rock.	18° 53.4′ N 72° 50.0′ E	**Fl.(2)W.R.** period 6s fl. 0.3s, ec. 1.4s fl. 0.3s, ec. 4s	65 **20**	W. 13 R. 7	Red and yellow checkered round tower; 92.	W. 186°-209°, R.-015°, W.-031°, R.-069°.
27960 *F 0515*	-Gull Island.	18° 50.1′ N 72° 53.8′ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	85 **26**	7	Aluminum framework tower; 66.	
27968 *F 0520*	-Dolphin Rock.	18° 54.9′ N 72° 50.2′ E	**Fl.(4)W.R.** period 20s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 15s	36 **11**	W. 11 R. 5	Gray masonry tower; white cupola; 59.	R. 147°-236°, W.-270°, R.-000°.
27972 *F 0521*	-Naval Dockyard, S. breakwater, head.	18° 55.6′ N 72° 50.7′ E	**Fl.R.** period 3s	49 **15**	5	Mast, building; 43.	
27976 *F 0523*	-Breakwater pier, E. head.	18° 55.7′ N 72° 50.4′ E	**F.R.**	27 **8**	5	Metal column; 16.	
27984 *F 0528*	-Indira Dock Range, front.	18° 56.0′ N 72° 50.6′ E	**F.R.**	26 **8**	7	Framework structure, white double ball topmark, black border.	
27988 *F 0528.1*	--Rear, 120 meters 305° from front.	18° 56.1′ N 72° 50.5′ E	**2 F.R.** (vert.)	39 **12**	7	Mast, white double ball topmark, black border.	
27992 *F 0532*	-N. Channel.	18° 57.1′ N 72° 51.1′ E	**Oc.R.** period 5s lt. 3s, ec. 2s	19 **6**	8	White beacon, red bands; 26.	Visible 070°-320°.
27996 *F 0534*	-Victoria Dock.	18° 57.1′ N 72° 50.8′ E	**F.R.**		6	Framework tower.	Occasional.
28004 *F 0546*	-Tucker.	18° 56.1′ N 72° 52.5′ E	**Oc.W.R.** period 5s lt. 3s, ec. 2s	70 **21**	13	White framework tower, red masonry beacon, black and white bands.	W. 007°30′-036°30′, R.-007°30′.
28008 *F 0547*	-Elephanta Island Range, front.	18° 57.4′ N 72° 55.7′ E	**Q.W.**	39 **12**			

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			INDIA-WEST COAST				
28012 *F 0547.1*	--Rear, 150 meters 055° from front.	18° 57.6′ N 72° 56.0′ E	**Q.W.**	72 **22**			
28014 *F 0552.3*	-**Sheva Island** Range, front.	18° 56.7′ N 72° 56.3′ E	**Q.R.**	177 **54**	**20**		
28014.5 *F 0552.31*	--Rear, 1.1 miles 084° from front.	18° 56.8′ N 72° 57.5′ E	**Iso.R.** period 6s	217 **66**	**20**		
28016 *F 0548*	-Uran Range, front.	18° 56.2′ N 72° 54.2′ E	**Q.W.**	22 **7**		Black metal framework beacon.	Visible 043°-003°.
28020 *F 0548.1*	--Rear, 0.5 mile 202°42′ from front.	18° 55.7′ N 72° 54.0′ E	**Q.W.**	39 **12**	5	Black round beacon.	Visible 077°-000°.
28024 *F 0549*	-Butcher.	18° 56.9′ N 72° 54.3′ E	**Fl.(4)W.R.** period 10s	30 **9**		Beacon.	R. 055°-206°, W.-055°.
28040 *F 0551*	-Pir Pau Bulk Oil Pier.	18° 59.5′ N 72° 54.6′ E	**Fl.R.**	15 **5**			A Fl.R. 5M light is shown from center of pier when oil vessels are discharging. A Fl.R. 1M light is shown at W. end of pier.
28044 *F 0502*	Uarashi.	19° 04.5′ N 72° 48.6′ E	**Fl.R.** period 10s fl. 1s, ec. 9s	33 **10**	5	Beacon; 33.	Shown Oct. 1 to May 31. Two Fl. R. 5s 8m 4M lights on dolphins 1.9 miles SSW. Two Fl. R. 5s 8m 4M lights on dolphins 4.5 miles SSW.
28048 *F 0501*	**Santa Cruz** AVIATION LIGHT.	19° 05.5′ N 72° 52.0′ E	**Al.Fl.W.G.** period 4s	82 **25**	W. **27** G. **25**	Control tower.	
28052 *F 0500*	Vesava.	19° 08.8′ N 72° 48.2′ E	**Fl.W.** period 2s fl. 0.3s, ec. 1.7s	45 **14**	5	White mast; 49.	Visible 003°-040°. Storm signals.
28056 *F 0498*	Bassein, on rocks 366 meters from pier.	19° 19.5′ N 72° 49.2′ E	**Q.R.**	16 **5**	2	Metal post, masonry base.	
28060 *F 0499*	**Utan.**	19° 16.7′ N 72° 46.8′ E	**Fl.(2)W.** period 15s fl. 0.2s, ec. 3.5s fl. 0.2s, ec. 11.1s	175 **53**	**24**	White square masonry tower, red bands; 49.	Storm signals. **AIS** (MMSI No 004192226).
28064 *F 0496*	Donghri Point, S. side of entrance to Bassein Creek.	19° 18.6′ N 72° 47.6′ E	**F.G.**	46 **14**	6	Metal column; 7.	Visible 095°-240°. Shown Sep. 16 to Jun. 15.
28068 *F 0494*	Arnala, on mainland, near Arnala custom house.	19° 27.4′ N 72° 44.9′ E	**Fl.(3)W.R.** period 15s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 11.5s	60 **18**	8	White metal framework tower; 49.	R. 048°-091°, W.-098°, W. 100°-114°. Storm signals.
28072 *F 0493*	Kelve (Kelwa) Mahim.	19° 36.1′ N 72° 44.2′ E	**Fl.W.** period 5s fl. 0.3s, ec. 4.7s	43 **13**	3	White mast; 49.	Visible 058°-152°. Storm signals.
28076 *F 0492*	**Satpati.**	19° 43.3′ N 72° 42.2′ E	**Fl.(2)W.** period 20s	98 **30**	**20**	RCC tower; 98.	Storm signals.
28080 *F 0491.8*	Nowapur.	19° 47.4′ N 72° 41.4′ E	**F.W.**	35 **11**	6	Mast.	Storm signals.
28084 *F 0491.5*	**Tarapur.**	19° 50.8′ N 72° 39.4′ E	**Fl.(3)W.** period 30s fl. 0.4s, ec. 5.6s fl. 0.4s, ec. 5.6s fl. 0.4s, ec. 17.6s	82 **25**	**23**	White square masonry tower, black bands; 75.	Storm signals. **AIS** (MMSI No 004192225).
			F.R.	33 **10**	9		
28088 *F 0491*	Dahanv.	19° 58.6′ N 72° 43.0′ E	**Fl.W.** period 5s fl. 0.3s, ec. 4.7s	43 **13**	10	White metal framework tower; 39.	Storm signals.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			INDIA-WEST COAST				
28092 *F 0489*	**Umbargaon.**	20° 11.8′ N 72° 44.9′ E	**Fl.W.** period 15s fl. 1.3s, ec. 13.7s	115 **35**	**19**	White concrete tower, red bands; 98.	Storm signals. **AIS** (MMSI No 004192224).
	RACON		**M(– –)**				
28096 *F 0488*	Maroli.	20° 17.9′ N 72° 46.6′ E	**Fl.W.** period 1.5s fl. 0.3s, ec. 1.2s	40 **12**	5	White metal framework tower; 36.	Shown Sep. 16 to Jun. 15.
	PORT DAMAN:						
28100 *F 0484*	**-Rio Sandalcalo.**	20° 24.6′ N 72° 49.9′ E	**Fl.W.** period 10s	115 **35**	**21**	White round concrete tower, black bands; 102.	Storm signals. A F.R. light is located 0.2 mile northward on N. side of river.
28108 *F 0480*	Bulsar Khari, S. side of entrance to Auranga River.	20° 37.8′ N 72° 53.2′ E	**Fl.(4)W.** period 20s	105 **32**	14	White metal trestle; 98.	
28112 *F 0479*	**Kanai Creek.**	20° 48.7′ N 72° 49.7′ E	**Fl.(2)W.** period 20s fl. 0.5s, ec. 3s fl. 0.5s, ec. 16s	111 **34**	**17**	White round concrete tower, black bands; 98.	**AIS** (MMSI No 004192223).
28116 *F 0478*	**Warsi Borsi.**	20° 56.1′ N 72° 45.6′ E	**Fl.W.** period 7s	118 **36**	**17**	White square concrete tower, red bands; 112.	
	GULF OF KHAMBHAT:						
28120 *F 0476*	**-Hazira.**	21° 05.5′ N 72° 38.5′ E	**Fl.(3)W.** period 15s fl. 0.4s, ec. 2.1s fl. 0.4s, ec. 2.1s fl. 0.4s, ec. 9.6s	128 **39**	**24**	White round masonry tower; 82.	**AIS** (MMSI No 004192222).
	-RACON		**K(– • –)**				
28122 *F 9307*	-Sutherland Channel, Reliance SPM.	21° 09.0′ N 72° 34.4′ E	**Mo.(U)W.** period 15s			Superbuoy.	**Horn:** Mo.(U) 30s.
	-RACON		**U(• • –)**				
28124 *F 0472*	-Dandi Point, entrance to Bhagwa Creek.	21° 18.8′ N 72° 36.8′ E	**L.Fl.W.** period 10s fl. 2s, ec. 8s	82 **25**	10	Metal framework tower; 85.	Visible 355°-180°.
28128 *F 0470*	-Luhara Point, N. side of Narbada River entrance.	21° 39.6′ N 72° 32.9′ E	**Fl.W.** period 15s	92 **28**	11	White metal tower, red spiral; 79.	**AIS** (MMSI No 004192221).
	-RACON		**D(– • •)**				
28128.5 *F 0469.95*	-Luhara Production Platform, TB1.	21° 39.7′ N 72° 30.8′ E	**Fl.Y.** period 4s		10		
28129 *F 0469.9*	--TB2.	21° 39.9′ N 72° 30.8′ E	**Fl.Y.** period 4s		10		
28129.5 *F 0469.8*	--Petronet LNG, S. jetty, S. head.	21° 40.0′ N 72° 30.6′ E	**Fl.Y.** period 4s				
28129.55 *F 0469.7*	----N. head.	21° 40.2′ N 72° 30.6′ E	**Fl.Y.** period 4s				
28130 *F 0469.5*	--GCPTCL terminal control light.	21° 41.5′ N 72° 30.6′ E	**Fl.R.** period 5s	115 **35**	10	Control tower.	
28132 *F 0468*	-Devjagan, N. bank of Dhadar River entrance.	21° 55.0′ N 72° 33.0′ E	**F.W.**	30 **9**	10	Stone column; 43.	Visible 294°-181°. Shown Sep. to Jun.
	-Bhavnagar:						
28156 *F 0456*	--Ruvapari, W. side of channel.	21° 46.8′ N 72° 14.0′ E	**Fl.W.** period 12s fl. 0.5s, ec. 11.5s	65 **20**	10	Gray hut, piles.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			INDIA-WEST COAST				
28160 *F 0455*	--Bhaunagar New Port Range, front.	21° 45.5′ N 72° 13.6′ E	**F.R.**				
28164 *F 0455.1*	---Rear, 1020 meters 251°07′ from front.	21° 45.4′ N 72° 13.1′ E	**F.W.**				
28168 *F 0455.6*	--Bhaunagar New Port.	21° 45.0′ N 72° 14.0′ E	**Fl.R.** period 8s fl. 0.5s, ec. 7.5s	66 **20**	8	White metal framework tower.	
28176 *F 0452*	-Ghogha Bandar, S. side of entrance.	21° 41.5′ N 72° 16.7′ E	**Oc.R.** period 15s lt. 11s, ec. 4s	59 **18**	10	White square masonry tower, red bands; 52.	
28180 *F 0448*	**-Piram Island.**	21° 35.9′ N 72° 21.1′ E	**Fl.(2)W.** period 10s fl. 0.3s, ec. 2.2s fl. 0.3s, ec. 7.2s	150 **46**	**27**	White round masonry tower, black bands; 89.	**AIS** (MMSI No 004192220).
	-RACON		**B(– • • •)**				
28184 *F 0449*	*Perigee light vessel.*	21° 42.1′ N 72° 18.3′ E	**Fl.W.** period 7s	39 **12**	8	Red hull.	Q.W. riding light. **Bell.** **Radar reflector.**
28188 *F 0446*	-Alang.	21° 24.2′ N 72° 11.0′ E	**Fl.W.** period 3s fl. 0.4s, ec. 2.6s	128 **39**	14	White hexagonal masonry tower, black bands; 79.	
	-RACON		**C(– • – •)**				
28192 *F 0444*	**-Gopnath Point.**	21° 12.2′ N 72° 06.5′ E	**Fl.(3)W.** period 20s fl. 0.3s, ec. 3.7s fl. 0.3s, ec. 3.7s fl. 0.3s, ec. 11.7s	135 **41**	**18**	Red and white square masonry tower; 112.	**AIS** (MMSI No 004192219).
	-RACON		**G(– – •)**				
28196 *F 0442*	-Jhanjhmer.	21° 10.8′ N 72° 03.7′ E	**Fl.W.** period 10s	148 **45**	12	White concrete column, hut; 10.	
28200 *F 0438*	**Jegri Island.**	21° 02.4′ N 71° 48.1′ E	**Fl.(2)W.** period 20s fl. 0.3s, ec. 3.7s fl. 0.3s, ec. 15.7s	187 **57**	**27**	Black square masonry tower, white bands; 95.	**AIS.**
28204 *F 0436*	**Savai Bet.**	20° 54.2′ N 71° 31.6′ E	**Fl.(4)W.** period 30s fl. 0.3s, ec. 4.7s fl. 0.3s, ec. 4.7s fl. 0.3s, ec. 4.7s fl. 0.3s, ec. 14.7s	144 **44**	**21**	White square masonry tower, red bands; 46.	
28208 *F 0432*	**-Jafarabad Harbor.**	20° 51.5′ N 71° 22.9′ E	**Fl.W.** period 10s fl. 0.3s, ec. 9.7s	95 **29**	**24**	White round tower, hexagonal masonry tower, square base; 62.	Storm signals. **AIS** (MMSI No 004192218).
28212 *F 0432.2*	-Islet E. of harbor.	20° 51.4′ N 71° 23.0′ E	**F.R.**	26 **8**	14	Hut; 10.	Visible 248°-267°.
28216 *F 0432.4*	-650 meters ENE of harbor.	20° 51.7′ N 71° 23.2′ E	**F.R.**	56 **17**	5	Metal framework tower, concrete platform.	
28232 *F 0430.6*	Rajpura.	20° 47.6′ N 71° 12.3′ E	**Fl.W.** period 5s fl. 1s, ec. 4s	80 **24**	7	Stone column, hut; 16.	
28236 *F 0430*	Simar.	20° 46.5′ N 71° 09.1′ E	**Fl.W.** period 10s fl. 1s, ec. 9s	112 **34**	7	Red framework tower, white bands; 98.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			INDIA-WEST COAST				
	DIU:						
28244 *F 0426*	**-Nawabandar.**	20° 44.4′ N 71° 04.9′ E	**Fl.(4)W.** period 12s fl. 0.8s, ec. 1s fl. 0.8s, ec. 1s fl. 0.8s, ec. 1s fl. 0.8s, ec. 5.8s	89 **27**	**16**	White round tower; 49.	Storm signal.
28256 *F 0422*	-Forte do Mar.	20° 43.2′ N 70° 59.8′ E	**Fl.G.** period 4s fl. 0.5s, ec. 3.5s	56 **17**	6	White round tower; 23.	Shown Sep. 1 to May 31.
28260 *F 0424*	-Couraca.	20° 42.9′ N 70° 59.9′ E	**Fl.R.** period 4s fl. 0.5s, ec. 3.5s	20 **6**	6	White four-sided tower; 13.	Shown Sep. 1 to May 31.
28264 *F 0420*	**Cavaleiro.**	20° 42.8′ N 70° 59.8′ E	**Fl.W.** period 2s fl. 0.5s, ec. 1.5s	148 **45**	**20**	White round concrete tower, black bands; 49.	Storm signals.
28266 *F 0414.2*	Vanakbava.	20° 42.5′ N 70° 52.7′ E	**Fl.(3)W.** period 10s		12	White concrete structure; 30.	
28268 *F 0414*	**Diu Head.**	20° 41.5′ N 70° 49.7′ E	**Fl.W.** period 10s fl. 0.3s, ec. 9.7s	194 **59**	**32**	White hexagonal masonry tower, red bands; 121.	**AIS** (MMSI No 004192217).
	RACON		**D(– • •)**				
28270 *F 0407*	Sutrapada.	20° 50.2′ N 70° 28.9′ E	**Fl.W.** period 7s fl. 0.8s, ec. 6.2s	20 **6**	8	White square masonry tower; 13.	
28272 *F 0410*	**Veraval Roads.**	20° 54.7′ N 70° 21.2′ E	**Oc.W.** period 15s lt. 10s, ec. 5s	108 **33**	**24**	White masonry tower, black bands; 112.	**AIS** (MMSI No 004192216).
	RACON		**K(– • –)**				
28276 *F 0412*	-Bhirria.	20° 53.9′ N 70° 23.0′ E	**Fl.R.** period 10s fl. 0.5s, ec. 9.5s	30 **9**	4	White square masonry tower, black bands; 20.	
28280 *F 0406*	**Mangrol.**	21° 06.5′ N 70° 06.4′ E	**Fl.(2)W.** period 20s fl. 0.5s, ec. 2s fl. 0.5s, ec. 17s	118 **36**	**18**	White hexagonal concrete tower, red bands; 115.	**AIS** (MMSI No 004192215).
28282 *F 0406.1*	-W. breakwater.	21° 06.3′ N 70° 06.0′ E	**Fl.R.** period 3s fl. 0.5s, ec. 2.5s	43 **13**	6	Square concrete tower; 13.	
28284 *F 0404*	Navibandar.	21° 26.9′ N 69° 47.0′ E	**Fl.W.** period 10s fl. 1s, ec. 9s	60 **18**	6		**AIS** (MMSI No 004192214).
28288 *F 0400*	**Porbandar.**	21° 37.4′ N 69° 37.0′ E	**Fl.W.** period 5s	154 **47**	**18**	White round concrete tower, black bands; 135.	**AIS** (MMSI No 004192213).
	RACON		**D(– • •)**				Azimuth coverage 140°-300°30′.
28290 *F 0401*	-Breakwater, head.	21° 37.1′ N 69° 35.5′ E	**Fl.W.** period 5s		5		
28296 *F 0398*	**Navadra.**	21° 57.0′ N 69° 14.1′ E	**Fl.(3)W.** period 10s fl. 0.4s, ec. 1.5s fl. 0.4s, ec. 1.5s fl. 0.4s, ec. 5.8s	180 **55**	**18**	White round concrete tower, red bands; 115.	**AIS** (MMSI No 004192212).
28300 *F 0396*	**Dwarka Point.**	22° 14.3′ N 68° 57.5′ E	**Fl.(2)W.** period 20s fl. 0.3s, ec. 4.7s fl. 0.3s, ec. 14.7s	156 **48**	**30**	White square stone tower, black bands; 141.	**AIS** (MMSI No 004192211). Storm signals.
	RACON		**G(– – •)**		**18**		Azimuth coverage 273°30′-225°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			INDIA-WEST COAST				
28304 *F 0397*	**Kachchigadh.**	22° 19.8′ N 68° 56.9′ E	**Fl.(4)W.** period 15s fl. 0.4s, ec. 1.5s fl. 0.4s, ec. 1.5s fl. 0.4s, ec. 1.5s fl. 0.4s, ec. 8.9s	112 **34**	**18**	White round concrete tower, red bands; 98.	
	RACON		**K(– • –)**		10		
	GULF OF KUTCH:						
28308 *F 0390*	-Okha Port, Samiani Island.	22° 29.3′ N 69° 05.2′ E	**Fl.W.R.** period 5s fl. 1s, ec. 4s	71 **22**	11	White round stone tower; 66.	W. 057°-217°, R.-247°, W.-260°, R.-290°, W.-009°.
28312 *F 0388*	**-Humani Point.**	22° 28.6′ N 69° 04.2′ E	**Fl.(3)W.** period 25s fl. 0.3s, ec. 4.7s fl. 0.3s, ec. 4.7s fl. 0.3s, ec. 14.7s	86 **26**	**25**	White square masonry tower, red bands; 75.	
	-RACON		**O(– – –)**		**15**		Azimuth coverage 355°30′-311°30′.
28316 *F 0389*	-Samiani Island, NE. reef, outer end.	22° 29.5′ N 69° 05.5′ E	**Fl.G.** period 3s fl. 0.5s, ec. 2.5s	39 **12**	5	White masonry tower, black bands; 33.	
28320 *F 0393*	-Mithapur, about 10.2 meters SW. of Vomani Point.	22° 24.4′ N 69° 00.7′ E	**F.R.**	174 **53**	10	Building; 164.	
28324	*-Ranwara Shoals Lighted Buoy.*	22° 42.0′ N 69° 21.0′ E	**Fl.R.** period 10s			Red can buoy.	
28328 *F 0386.5*	-Chanka Reef, NW. end.	22° 32.6′ N 69° 16.2′ E	**Q.W.**	49 **15**	9	White round tower; 39.	
	-RACON		**D(– • •)**				
28332 *F 0386*	-Chanka Island 1.9 km. NNE. of island.	22° 32.8′ N 69° 24.6′ E	**Fl.W.** period 15s fl. 1s, ec. 14s	39 **12**	11	White four-sided concrete tower, black bands.	
28336 *F 0384*	-Karumbhar Island.	22° 26.3′ N 69° 35.2′ E	**Fl.(3)W.** period 15s fl. 0.8s, ec. 2.2s fl. 0.8s, ec. 2.2s fl. 0.8s, ec. 8.2s	89 **27**	12	White round stone tower; 66.	
28340 *F 0383*	-Pathfinder Inlet, No 1.	22° 27.8′ N 69° 40.3′ E	**Fl.(2)R.** period 5s	32 **10**	5	Green framework beacon, white hut, piles.	
28344 *F 0383.5*	--No 2.	22° 27.6′ N 69° 39.8′ E	**Fl.(2)G.** period 5s	32 **10**	5	Red framework beacon, white hut, piles.	
28347 *F 0382.5*	-Sikka Range, front.	22° 29.5′ N 69° 50.9′ E	**F.R.**		4		
28347.5 *F 0382.51*	--Rear, 130°30′ from front.	22° 29.3′ N 69° 51.1′ E	**F.R.**		4		
28352 *F 0380*	**-Pirothan Island.**	22° 36.2′ N 69° 57.2′ E	**Fl.W.** period 20s fl. 0.4s, ec. 19.6s	85 **26**	**24**	White round concrete tower, black bands.	**Radar reflector.**
	-RACON		**K(– • –)**				
28356 *F 0378*	-Beacon, NE. of Pirotan Island.	22° 37.2′ N 69° 58.3′ E	**Fl.R.** period 10s fl. 1s, ec. 9s	18 **5**	5	White pyramidal concrete tower, red bands; 26.	
28358.8 *F 0367.2*	-Sathsaida Range, front.	22° 57.8′ N 70° 16.0′ E	**Fl.W.** period 3s	30 **9**	8		
28358.81 *F 0367.3*	--Rear, 889 meters 050°30′ from front.	22° 58.1′ N 70° 16.4′ E	**Iso.W.** period 3s	46 **14**	8		

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			INDIA-WEST COAST				
28359 *F 0367.6*	-Kandla Creek Approach Range, front, 788 meters 215°30′ from rear.	22° 58.3′ N 70° 15.7′ E	**Q.R.**	26 **8**	6	White metal framework tower, black bands, triangular daymark point up; 16.	Forms range 035°30′ with 28359.5.
28359.3 *F 0367.62*	--Range, front, 770 meters 217°30′ from rear.	22° 58.3′ N 70° 15.7′ E	**Q.W.**	26 **8**	8		In line 037°30′ with 28359.5.
28359.5 *F 0367.61*	---Common rear.	22° 58.7′ N 70° 16.0′ E	**Iso.R.** period 1.5s	43 **13**	7	White framework tower, black bands, white triangular daymark point up; 36.	
28366 *F 0367.8*	-Mungra Reef.	22° 45.6′ N 70° 11.0′ E	**Fl.(2)W.** period 15s	23 **7**	10	White round concrete tower, red bands; 33.	
28368 *F 0368*	-Jodiya Bandar.	22° 43.5′ N 70° 16.7′ E	**Fl.W.** period 10s fl. 1s, ec. 9s	102 **31**	11	Framework tower; 98.	
28376 *F 0370*	-Navlakhi Island, NW. end.	22° 57.7′ N 70° 26.6′ E	**Fl.(3)W.** period 10s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 1.5s fl. 0.5s, ec. 5.5s	98 **30**	12	White round concrete tower, red bands; 98.	
	-RACON		**B(– • • •)**				
28378 *F 0365*	**-Bhadreswar.**	22° 54.5′ N 69° 54.8′ E	**Fl.(3)W.** period 20s	253 **77**	**16**	White masonry tower; 197.	
28380 *F 0366*	**-Tekra.**	22° 55.7′ N 70° 07.2′ E	**Fl.W.** period 7s fl. 0.3s, ec. 6.7s	55 **17**	**17**	Metal column, black masonry tower, white bands; 46.	
28396 *F 0362*	**-Navinar Point.**	22° 43.9′ N 69° 42.4′ E	**Fl.(2)W.** period 15s fl. 0.3s, ec. 3.5s fl. 0.3s, ec. 10.9s	105 **32**	**19**	White structure, black bands; 98.	Marine control tower.
	-RACON		**C(– • – •)**				
28398 *F 0361.8*	-Mundra Port, No 1, front.	22° 45.1′ N 69° 42.1′ E	**Q.G.**	62 **19**	10		
28398.5 *F 0361.81*	--No 2, rear, 306°30′ from front.	22° 45.5′ N 69° 41.6′ E	**Oc.G.**	112 **34**	10		
28404 *F 0360*	-Raval Pir.	22° 48.8′ N 69° 23.5′ E	**Fl.G.** period 3s fl. 0.5s, ec. 2.5s	52 **16**	3	White concrete column, white square concrete tower; 23.	
	MANDVI:						
28408 *F 0358*	-Breakwater, head.	22° 49.0′ N 69° 20.9′ E	**Fl.R.** period 3s fl. 0.5s, ec. 2.5s	25 **8**	5	White square concrete column, red top; 23.	
28411 *F 0357*	**-Mandvi.**	22° 49.7′ N 69° 20.9′ E	**Fl.(3)W.** period 30s fl. 1s, ec. 5s fl. 1s, ec. 5s fl. 1s, ec. 17s	207 **63**	**16**	White round concrete tower, red bands; 98.	
	-RACON		**G(– – •)**				
28416 *F 0356*	**-Chachi.**	22° 57.2′ N 69° 00.1′ E	**Fl.(3)W.** period 15s fl. 0.3s, ec. 2.2s fl. 0.3s, ec. 2.2s fl. 0.3s, ec. 9.7s	106 **32**	**24**	White masonry tower, black bands; 89.	
28420 *F 0355*	**-Jakhau.**	23° 14.4′ N 68° 36.4′ E	**Fl.W.** period 10s fl. 0.3s, ec. 9.7s	150 **46**	**18**	White round concrete tower, red bands; 135.	
28420.5 *F 0354*	**Koteshwar.**	23° 40.4′ N 68° 31.6′ E	**Fl.(2)W.** period 15s	197 **60**	**18**	White RRC tower, black bands.	

Section 18

Pakistan, Gulf of Oman and Persian Gulf

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			PAKISTAN				
28421 *D 7850*	**Kajhar Creek.**	23° 48.1′ N 68° 02.2′ E	**Fl.W.** period 12s	151 **46**	**25**		
28422 *D 7800*	**Turshian.**	24° 04.6′ N 67° 24.0′ E	**Fl.(3)W.** period 20s	151 **46**	**20**		
	PORT MUHAMMAD BIN QASIM:						
28424 *D 7760*	**-Khuddi Island.**	24° 33.6′ N 67° 13.1′ E	**Fl.(4)W.** period 30s	132 **40**	**17**	White round concrete tower, black bands.	
28427 *D 7760.09*	-Ahsan Channel Range, front.	24° 38.0′ N 67° 06.3′ E	**Q.W.**	39 **12**	11	Black metal pipe, platform.	
28428 *D 7761*	--Rear, 032°26' from front.	24° 39.4′ N 67° 07.3′ E	**Oc.W.**	102 **31**	**16**	Black metal pipe.	Visible 029°54′-034°54′.
28436 *D 7761.5*	-Bundal Island, No 4.	24° 41.3′ N 67° 08.3′ E	**Fl.Y.** period 4s	33 **10**	5	Black metal pipe, platform.	
28441 *D 7763.1*	-Phitti Creek Range, front.	24° 43.6′ N 67° 09.0′ E	**Q.W.**	26 **8**	5	Black metal pipe, platform.	
28441.1 *D 7763.11*	--Rear, 010°21' from front.	24° 44.0′ N 67° 09.1′ E	**Iso.W.** period 4s	66 **20**	6	Black metal pipe, platform.	
28442 *D 7763.5*	-Kunni Range, front.	24° 45.6′ N 67° 12.2′ E	**Q.W.**	26 **8**	5	Black metal pipe, platform.	
28442.1 *D 7763.51*	--Rear, 056°48' from front.	24° 45.9′ N 67° 12.8′ E	**Fl.W.** period 4s	66 **20**	6	Black metal pipe, platform.	
28445 *D 7763.9*	-Hasan Point, No 7.	24° 46.8′ N 67° 14.1′ E	**Iso.Y.** period 4s	33 **10**	5	Black metal pipe, green top, platform.	
28446 *D 7763.91*	-No 8A.	24° 47.1′ N 67° 14.2′ E	**F.W.**	33 **10**	1	Black metal pipe, red top, platform.	
	KARACHI HARBOR:						
28472 *D 7750*	**-Manora Point.**	24° 47.6′ N 66° 58.7′ E	**Fl.W.** period 7.5s fl. 0.3s, ec. 7.2s	156 **48**	**26**	Red round tower, white bands, black base, white cupola; 125.	Storm signals.
28480 *D 7751.1*	-Karachi.	24° 47.6′ N 66° 59.9′ E	**Oc.W.** period 7s lt. 5s, ec. 2s	66 **20**	14	Framework tower.	
28492 *D 7756*	-Pundit AVIATION LIGHT.	24° 52.9′ N 66° 56.5′ E	**Mo.(MA)R.** period 6s	46 **14**	12		
28497 *D 7754*	-Training wall.	24° 50.0′ N 66° 58.0′ E	**Fl.W.** period 10s			White beacon; 16.	
28500 *D 7745*	**Ras Muari.**	24° 49.6′ N 66° 39.9′ E	**Fl.(2)W.** period 10s fl. 0.3s, ec. 2.5s fl. 0.3s, ec. 6.9s	162 **49**	**25**	Black concrete tower, white bands; 167.	Visible 277°-138°.
28504 *D 7742*	**Ormara.**	25° 11.3′ N 64° 41.3′ E	**Fl.(2)W.** period 20s	746 **227**	**19**	Gray metal framework tower, white base; 26.	
28508 *D 7740*	**Astola Island.**	25° 07.5′ N 63° 50.6′ E	**Fl.W.** period 15s	292 **89**	**19**		
28512 *D 7736*	**Pasni.**	25° 12.4′ N 63° 29.7′ E	**Fl.(3)W.** period 30s		**17**		

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			PAKISTAN				
28516 *D 7734*	**Gwadar.**	25° 06.0′ N 62° 20.9′ E	**Fl.(2)W.** period 15s	276 **84**	**19**		
28517 *D 7734.1*	-Mini Port, jetty, head.	25° 06.9′ N 62° 20.1′ E	**Fl.R.** period 5s				
28517.5 *D 7734.2*	-Deep Water Port, E. end.	25° 06.7′ N 62° 20.7′ E	**F.R.**				
28518 *D 7734.3*	-Range, front.	25° 06.9′ N 62° 19.8′ E	**Iso.G.** period 2s	105 **32**	12		
28518.1 *D 7734.35*	--Rear, 750 meters 270° from front.	25° 06.9′ N 62° 19.4′ E	**Fl.G.** period 3s	148 **45**	12		
28520 *D 7731*	**Jiwani.**	25° 01.8′ N 61° 48.6′ E	**Fl.W.** period 10s	459 **140**	**19**		
28524 *D 7730*	Jiwani AVIATION LIGHT.	25° 04.2′ N 61° 48.2′ E	**Al.Fl.W.G.** period 5s	214 **65**		Control tower; 30.	
28526 *D 7725*	-Damagheh-ye Pas Bandar.	25° 03.8′ N 61° 25.4′ E	**Fl.(2)W.** period 15s	49 **15**	12	Framework tower.	
			GULF OF OMAN				
	IRAN:						
28533 *D 7720.2*	-Damagheh-ye Chabahar, Behashti.	25° 17.2′ N 60° 36.6′ E	**Fl.(3)W.** period 6s	125 **38**	7		
28534 *D 7723*	--Kalantari.	25° 18.9′ N 60° 36.9′ E	**Fl.(4)G.** period 7s	30 **9**	7		
28540 *D 7713*	-Jask.	25° 38.2′ N 57° 45.9′ E	**Fl.(2)W.** period 15s	105 **32**	12	Red metal framework tower.	Aeromarine light.
28540.5 *D 7714*	--Breakwater.	25° 39.1′ N 57° 45.9′ E	**Fl.(3)G.** period 10s	23 **7**	5	Beacon.	
28544 *D 7712*	**-Kuh-e Mubarak.**	25° 50.3′ N 57° 18.5′ E	**Fl.W.** period 10s	148 **45**	**18**	Metal framework tower; 66.	
	-RACON		**O(– – –)**				
28548 *D 7711*	**-Bandar-e Sirik.**	26° 30.1′ N 57° 05.4′ E	**Fl.(3)W.** period 20s	125 **38**	**28**	Red round daymark.	**Radar reflector.**
	OMAN:						
28552 *D 7335*	**-Didamar.**	26° 28.6′ N 56° 32.2′ E	**Fl.(2)W.** period 10s fl. 0.2s, ec. 1.6s fl. 0.2s, ec. 8s	196 **60**	**23**	White framework tower; 79.	Light and Racon obscured by As Salamah Island 133°-142°30′ and Fanaku Island 156°-160°45′.
	-RACON		**Q(– – • –)**		**25**		(3 & 10cm). Obscured by lighthouse 000°-012°.
	UNITED ARAB EMIRATES:						
28556 *D 7333*	-Diba, E. breakwater.	25° 36.9′ N 56° 17.8′ E	**Oc.R.** period 2.5s lt. 1.5s, ec. 1s	42 **13**	9	Post.	
28556.2 *D 7334*	--W. breakwater.	25° 36.8′ N 56° 17.7′ E	**Fl.G.** period 5s fl. 1.2s, ec. 3.8s	30 **9**	5	Post.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			GULF OF OMAN				
28556.4 *D 7334.4*	--Fishing harbor, main breakwater.	25° 37.2′ N 56° 16.6′ E	**Fl.R.** period 5s fl. 0.3s, ec. 4.7s	24 **7**	5	Framework tower; 10.	
28556.6 *D 7334.5*	---Lee breakwater.	25° 37.1′ N 56° 16.5′ E	**Fl.G.** period 5s fl. 0.3s, ec. 4.7s	23 **7**	5	Framework tower; 10.	
28558 *D 7332.3*	-Jabal Dadnah.	25° 31.4′ N 56° 21.9′ E	**Q.R.**			Red and white framework structure; 121.	
28559 *D 7332.36*	-Badiyah, breakwater, head.	25° 25.8′ N 56° 21.9′ E	**Fl.(2)R.** period 5s	16 **5**	5		
28559.1 *D 7332.367*	--Lee breakwater, head.	25° 25.8′ N 56° 21.9′ E	**Fl.(2)G.** period 5s	16 **5**	5		
28560 *D 7332*	-Lulayyah, E. breakwater.	25° 23.6′ N 56° 22.0′ E	**Fl.R.** period 5s fl. 0.5s, ec. 4.5s	16 **5**	5	Post.	
28564 *D 7331*	-Khawr Fakkan, Container Terminal, N. end.	25° 21.5′ N 56° 21.9′ E	**Q.R.**				
28565.5 *D 7329.8*	**-Merbeh.**	25° 15.6′ N 56° 22.0′ E	**Iso.R.** period 2s	121 **37**	**15**	Red and white metal trestle structure.	
28566 *D 7330*	--Fishing Harbor, breakwater.	25° 16.0′ N 56° 22.4′ E	**Fl.W.** period 5s fl. 1s, ec. 4s	16 **5**	5	Post.	
28566.2 *D 7332.45*	-Fujayrah Naval Base, breakwater, head.	25° 15.2′ N 56° 22.4′ E	**Fl.(3)G.** period 10s		8		
28566.3 *D 7332.46*	--Lee breakwater, head.	25° 15.3′ N 56° 22.3′ E	**Fl.(3)R.** period 10s		8		
28567 *D 7329.6*	-Vopak ENOC Fujayrah Terminal, S. Berth 2.	25° 12.1′ N 56° 22.2′ E	**2 F.G.** (vert.)	59 **18**	3	Pipe, dolphin; 26.	
28567.2 *D 7329.65*	--Middle.	25° 12.3′ N 56° 22.2′ E	**F.R.G.** (vert.)	59 **18**	3	Pipe, walkway, pipe support structure, piles.	
28567.4 *D 7329.7*	--N. Berth 1.	25° 12.4′ N 56° 22.2′ E	**2 F.R.** (vert.)	46 **14**	3	Pipe, dolphin; 26.	
28570 *D 7329.1*	--AVIATION LIGHT.	25° 11.4′ N 56° 20.3′ E	**2 Fl.W.** period 2s	896 **273**	**30**	Red and white tower.	
28574 *D 7329.5*	-Oil Terminal 2.	25° 11.1′ N 56° 22.6′ E	**Fl.R.** period 2.5s	39 **12**	5	White metal column, red bands; 33.	
28576 *D 7329.4*	-N. breakwater.	25° 10.5′ N 56° 22.1′ E	**Fl.G.** period 3s	46 **14**	8	Green tower, white bands; 13.	
	-RACON		**T(–)**		**16**		(3 & 10cm).
28580 *D 7329.3*	-S. breakwater.	25° 10.6′ N 56° 21.9′ E	**Fl.R.** period 3s	46 **14**	8	Red tower, white bands; 13.	
28584 *D 7328*	-Gurah, jetty, head.	25° 07.8′ N 56° 21.6′ E	**Fl.R.** period 5s	16 **5**	5		Fl.W. 5s 5m 5M marks inner breakwater.
28584.1 *D 7328.1*	--W. breakwater.	25° 07.8′ N 56° 21.5′ E	**Fl.G.** period 5s	16 **5**	5		
28586 *D 7327*	-Kalba, fishing harbor, outer breakwater, head.	25° 04.9′ N 56° 21.8′ E	**Fl.(2)R.** period 10s fl. 0.5s, ec. 1s fl. 0.5s, ec. 8s	16 **5**	5		
	OMAN:						
28587 *D 7326.5*	-Shinas.	24° 44.9′ N 56° 28.6′ E	**Fl.R.** period 5s	19 **6**	5	Metal post, red square daymark; 7.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			GULF OF OMAN				
28587.5 *D 7326.6*	--N. breakwater.	24° 44.8′ N 56° 28.4′ E	**Fl.G.** period 5s	20 **6**	3	Metal post, green triangular daymark point up; 3.	
28588	-Sohar, *Fairway Buoy.*	24° 34.9′ N 56° 38.0′ E	**L.Fl.W.** period 10s			SAFE WATER RW, pillar, topmark.	
	-RACON		**Q(– – • –)**				
28588.1 *D 7326.25*	--E. breakwater, 180°.	24° 29.6′ N 56° 37.7′ E	**Dir.W.R.G.**	49 **15**	10	Gray metal framework tower.	F.G. 178°.24′-179°.24′, Al.G.W.-179°.42′, F.W.-180°, Al.W.R.-180°.18′, F.R.-181°.18′. Range 4M by day.
28588.2 *D 7326.34*	--Entrance, E. side.	24° 30.7′ N 56° 37.9′ E	**Fl.(2)R.** period 4s	33 **10**	5	Metal post; 10.	
28588.4 *D 7326.33*	---W. side.	24° 30.6′ N 56° 37.6′ E	**Fl.(2)G.** period 4s	33 **10**	5	Metal post; 10.	Iso.G. 4s and Iso.R. 4s lights mark entrance to Harmool harbor 1.4 miles NW.
28588.6 *D 7326*	--Majis jetty.	24° 29.2′ N 56° 38.7′ E	**Iso.R.** period 4s	16 **5**	3	White metal post; 7.	
	SOHAR:						
28588.8 *D 7326.28*	-Vale Terminal, head.	24° 31.8′ N 56° 37.5′ E	**Iso.W.** period 4s	30 **9**	9	Metal post; 10.	
28588.81 *D 7326.282*	--No 3.	24° 31.6′ N 56° 37.1′ E	**Fl.(2+1)Y.** period 6s	30 **9**	3	Metal post; 3.	
28588.82 *D 7326.283*	--No 2.	24° 31.5′ N 56° 37.0′ E	**Fl.Y.** period 5s	23 **7**	3	Metal post; 3.	
28588.84 *D 7326.325*	-Berth 14.	24° 31.1′ N 56° 36.4′ E	**Mo.(N)Y.** period 8s	16 **5**	4	Gray metal post, yellow "X" topmark; 7.	
28588.85 *D 7325.95*	--East breakwater.	24° 22.9′ N 56° 44.6′ E	**Fl.R.** period 5s	20 **6**	5	Metal post; 10.	
28589 *D 7325.9*	--AVIATION LIGHT.	24° 19.1′ N 56° 42.9′ E	**Fl.W.** period 3s fl. 1s, ec. 2s	361 **110**	**25**	Mast; 197.	
			4 F.R. (vert.)				15 meters apart.
28589.5 *D 7325.8*	-Saham.	24° 09.2′ N 56° 54.6′ E	**Fl.(3)W.** period 12s	26 **8**	5	White post, green stripes; 10.	
28589.8 *D 7325.74*	-Al Khaburah, fishing harbor, entrance.	23° 58.3′ N 57° 07.5′ E	**Fl.(2)G.** period 5s	16 **5**	3	Metal post; 10.	Surrounding breakwater marked by 3 W. lights and 1 G. light.
28589.9 *D 7325.26*	-As Suwayq, fishing harbor, W. breakwater, head.	23° 51.4′ N 57° 26.6′ E	**L.Fl.G.** period 6s	23 **7**	5	Gray metal post, green triangular daymark point up.	L.Fl.R. 6s marks E. breakwater.
28590 *D 7324.4*	-Wudam, Said bin Sultan Naval Base, N. breakwater, head.	23° 49.9′ N 57° 32.1′ E	**Iso.W.** period 4s	33 **10**	7	Gray metal mast; 13.	Fl.G. and Fl.R. beacons mark entrance channel.
28590.2 *D 7324.5*	--Directional Light 204°.	23° 49.1′ N 57° 32.2′ E	**Dir.W.R.G.** period 2s	43 **13**	5	Black pile, black diamond daymark.	Iso.G. 202°54′-204°06′, Iso.W.-205°24′, Iso.R.-208°. Range 3M by day.
28590.4 *D 7325.2*	--270°.	23° 49.8′ N 57° 31.5′ E	**Dir.W.R.G.** period 2s	43 **13**	4	Black pile, white diamond daymark.	Iso.G. 267°30′-268°48′, Iso.W.-270°48′, Iso.R.-271°42′.
28591 *D 7324.835*	-Wudam, breakwater, head.	23° 48.5′ N 57° 34.3′ E	**Fl.(3)W.** period 10s	13 **4**	5	Gray metal post; 7.	
28592 *D 7324*	**-Jaza'ir Daymaniyat.**	23° 51.3′ N 58° 03.9′ E	**Fl.W.** period 10s	102 **31**	**15**	Metal framework tower; 16.	
	-RACON		**M(– –)**		**25**		(3 & 10cm).

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			GULF OF OMAN				
28596 *D 7323*	-Bayt al Barakat, jetty.	23° 43.0′ N 58° 05.5′ E	**F.R.**		3	Metal post; 16.	
	-RACON		**M(– –)**				
28597 *D 7322.8*	-Seeb Fishing Harbor, W. breakwater, head.	23° 41.6′ N 58° 11.0′ E	**L.Fl.G.** period 6s	16 **5**	5	Gray metal post, green triangular daymark point up; 10.	
28597.5 *D 7322.85*	--E. breakwater.	23° 41.5′ N 58° 10.9′ E	**L.Fl.R.** period 6s	16 **5**	5	Gray metal post, red square daymark; 10.	
28597.8 *D 7322.71*	Wave Project Marina, S. breakwater.	23° 38.3′ N 58° 16.1′ E	**Iso.W.R.G.** period 4s	26 **8**	3	Steel beacon; 10.	W. 140°-205°, R.-285°, G.-140°.
28597.81 *D 7322.76*	--NW. breakwater, head.	23° 38.4′ N 58° 15.8′ E	**Fl.(9)W.** period 15s	33 **10**	5	Steel beacon, two black triangular daymarks points up; 10.	
28597.82 *D 7322.55*	--SE. breakwater, head.	23° 37.8′ N 58° 16.7′ E	**Fl.(2)W.** period 8s	39 **12**	5	Steel beacon; 13.	
28598 *D 7322.5*	-Ghubrah, Desalination Plant.	23° 36.6′ N 58° 24.7′ E	**Q.W.**	16 **5**	3	N. CARDINAL BY, column, topmark.	
28600 *D 7322*	-Jazirat Al Fahl.	23° 40.8′ N 58° 30.0′ E	**Fl.W.** period 15s	313 **95**	7	Metal framework tower, white triangular daymark point up; 13.	
28604.4 *D 7322.25*	--Breakwater.	23° 38.3′ N 58° 30.6′ E	**Iso.G.** period 2s	29 **9**	3	Metal post; 10.	
28605 *D 7321.6*	-Port Sulton Qaboos, breakwater, head.	23° 37.6′ N 58° 34.3′ E	**Iso.G.** period 8s	30 **9**	7	Gray post, green triangular daymark point up; 10.	R. Lt. on Riyam tower 830 meters SE. R. Lts. on radio mast 0.88 mile SE.
28605.1 *D 7321.62*	-NW.	23° 37.7′ N 58° 34.3′ E	**F.G.**	7 **2**	3	Wall.	
28605.2 *D 7321.7*	--Jetty, head, NE. corner.	23° 37.6′ N 58° 34.1′ E	**Fl.R.** period 5s	7 **2**	3	Wall.	
28605.3 *D 7321.72*	---SW. corner.	23° 37.5′ N 58° 34.1′ E	**F.G.**	7 **2**	3	Wall.	
28605.5 *D 7321.74*	--Berth No 11.	23° 37.4′ N 58° 33.9′ E	**Q.R.**	7 **2**	3		Can be obscured by background shore lights.
28605.7 *D 7321.76*	--Ship lift.	23° 37.4′ N 58° 33.9′ E	**F.G.**	7 **2**	3		F.G. 2M marks ship lift close NNW.
28608 *D 7320*	**-Masqat,** N. summit.	23° 37.6′ N 58° 35.8′ E	**Fl.W.** period 12s fl. 1s, ec. 11s	312 **95**	**19**	White square tower, round lantern house; 16.	Visible 042°-320°.
	-RACON		**N(– •)**		**25**		(3 & 10cm).
28608.2 *D 7320.2*	--Fisher's Rock.	23° 37.8′ N 58° 35.7′ E	**Fl.R.** period 3s	13 **4**	5	PORT (A) R, post, topmark; 10.	
28609 *D 7319*	-Sidab, breakwater.	23° 36.0′ N 58° 35.9′ E	**F.R.**	20 **6**	3	White metal post; 10.	
28609.2 *D 7319.2*	--Ship lift.	23° 36.0′ N 58° 35.9′ E	**F.G.**	20 **6**	5	White metal post; 10.	
28610 *D 7318.4*	-Bandar Al Rowdha, E. breakwater.	23° 35.0′ N 58° 36.5′ E	**Fl.(2)R.** period 5s	30 **9**	3	Metal post; 7.	
28610.2 *D 7318.5*	--N. breakwater.	23° 35.1′ N 58° 36.5′ E	**Fl.(4)G.** period 15s	23 **7**	3	Metal post; 3.	
28611 *D 7318.32*	-As Sifah, breakwater.	23° 25.0′ N 58° 47.6′ E	**Fl.R.** period 5s	30 **9**	5	Metal post, red square daymark; 10.	
28612 *D 7318.2*	-Qurayat, S. breakwater.	23° 16.0′ N 58° 55.8′ E	**Iso.R.** period 4s	23 **7**	4	Red metal post; 10.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			GULF OF OMAN				
28612.2 *D 7318.22*	---N. breakwater.	23° 16.0′ N 58° 55.8′ E	**Iso.G.** period 4s	23 **7**	4	Green metal post; 10.	
28612.4 *D 7318.24*	--Groin.	23° 16.4′ N 58° 55.5′ E	**Q.(3)W.** period 10s	16 **5**	3	E. CARDINAL BYB, post, topmark; 10.	
28614 *D 7318.13*	-Fishery Harbor, N. breakwater.	22° 34.8′ N 59° 32.0′ E	**Fl.G.** period 5s	30 **9**	4	Green metal post; 10.	
28615 *D 7318.14*	--E. breakwater.	22° 34.7′ N 59° 31.8′ E	**Fl.R.** period 5s	30 **9**	4	Red metal post; 10.	
28616 *D 7318.171*	**Qalhat,** Fisherman's Warning Light.	22° 39.9′ N 59° 24.1′ E	**Fl.W.** period 8s	72 **22**	**25**		Visible 153°-291°. Vessels to stop fishing and clear the area, imminent tanker movement at LNG terminal. Range 6M by day. Occasional.
			Fl.G. period 8s	72 **22**	10		Visible 153°-291°. Vessels to stay clear of area, tanker movement in progress. Range 1M by day. Occasional.
			ARABIAN SEA AND GULF OF ADEN				
28616.5 *D 7315.4*	Dawhat Sawqirah, Lakbi.	18° 11.0′ N 56° 33.0′ E	**Fl.W.** period 10s fl. 1s, ec. 9s	39 **12**	8	Gray metal post; 7.	
28617 *D 7315.8*	Duqm, E. breakwater, head.	19° 41.6′ N 57° 43.7′ E	**Iso.R.** period 4s	23 **7**	6	PORT (A) R, post, topmark; 10.	
28617.1 *D 7315.81*	-N. breakwater, head.	19° 41.4′ N 57° 43.3′ E	**Iso.G.** period 4s	23 **7**	6	STARBOARD (A) G, post, topmark; 10.	
28617.3 *D 7315.85*	-Government Berths.	19° 40.8′ N 57° 42.5′ E	**Q.G.**	10 **3**	5	Steel beacon; 3.	
28617.5 *D 7315.9*	-Drydock, jetty.	19° 40.1′ N 57° 43.1′ E	**Iso.W.** period 4s	23 **7**	5	Metal post;10.	
28617.7 *D 7315.92*	-Commercial Quay, S. corner.	19° 40.0′ N 57° 43.4′ E	**Mo.(V)W.**	23 **7**	3	Metal post; 7.	
28617.9 *D 7315.96*	--N. corner.	19° 41.1′ N 57° 43.6′ E	**Q.R.**	10 **3**	5	Steel beacon; 3.	
28618 *D 7318.1*	Sur, Ra's Ayqah.	22° 34.1′ N 59° 32.4′ E	**Fl.W.** period 5s	65 **20**	10	Ornamental tower; 59.	Visible 122°-268°.
			PERSIAN GULF				
28620 *D 7710*	Khowr-e Minab approach.	27° 04.9′ N 56° 48.1′ E	**Fl.W.** period 3s	7 **2**	7	Beacon.	
28624 *D 7709*	Bandar 'Abbas, E. breakwater.	27° 07.8′ N 56° 12.4′ E	**Iso.G.** period 4s	20 **6**	5	Green tower.	
28628 *D 7709.2*	-W. breakwater.	27° 07.7′ N 56° 12.1′ E	**Fl.R.** period 5s	16 **5**	3	Red tower.	
28632 *D 7709.4*	-Entrance Range, front.	27° 09.3′ N 56° 12.2′ E	**Q.W.**		5	Red, white and blue metal framework tower; 33.	
28636 *D 7709.41*	--Rear, 500 meters 000° from front.	27° 09.6′ N 56° 12.2′ E	**Iso.W.** period 4s			Red, white and blue metal framework tower; 49.	
28640 *D 7709.7*	-Inner Harbor, E. side.	27° 08.3′ N 56° 12.3′ E	**Fl.G.** period 5s	10 **3**		Gray metal structure.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			PERSIAN GULF				
28644 *D 7709.6*	--W. side.	27° 08.3′ N 56° 12.2′ E	**Q.R.**	10 **3**		Gray metal structure.	
	SHAHID RAJA'I:						
28647 *D 7707*	-Entrance Range, front.	27° 05.7′ N 56° 02.4′ E	**Oc.W.** period 4s	79 **24**	12		
28647.1 *D 7707.1*	--Rear, 2130 meters 284° from front.	27° 06.0′ N 56° 01.2′ E	**Oc.W.** period 4s	144 **44**	12		
28647.5 *D 7707.5*	**-Hormozgan** Terminal.	27° 07.3′ N 56° 05.5′ E	**Dir.W.R.G.** period 2s	108 **33**	**15**		Iso.G. 270°18′-271°18′, Iso.W.-272°42′, Iso.R.-273°42′.
	-RACON		**C(– • – •)**				(3 & 10cm).
28648 *D 7708*	-E. breakwater, head.	27° 05.4′ N 56° 04.4′ E	**Fl.G.** period 5s			Framework tower.	
28652 *D 7708.2*	-W. breakwater, head.	27° 05.2′ N 56° 04.2′ E	**Fl.R.** period 5s			Framework tower.	
28656 *D 7708.4*	-E. inner breakwater, head.	27° 05.5′ N 56° 04.1′ E	**Fl.(2)G.** period 9s			Framework tower.	
28660 *D 7708.5*	-W. inner breakwater, head.	27° 05.3′ N 56° 03.9′ E	**Fl.(2)R.** period 9s			Framework tower.	
28669 *D 7337.5*	**Jazireh-ye Larak,** N. coast.	26° 53.2′ N 56° 21.2′ E	**Fl.(2)W.** period 10s	131 **40**	**18**		
28676 *D 7338*	Ramchah, E. breakwater.	26° 53.9′ N 56° 09.9′ E	**Fl.(3)G.** period 12s	23 **7**			
28680 *D 7338.2*	-W. breakwater.	26° 53.9′ N 56° 09.9′ E	**Fl.(3)R.** period 12s	23 **7**			
28684 *D 7339*	Jazireh-ye Hengam.	26° 37.9′ N 55° 54.1′ E	**Fl.W.** period 10s	121 **37**	12	Square metal tower, concrete base; 13.	Visible 173°-014°.
	RACON		**M(– –)**				
28685 *D 7335.5*	Keshal Rock.	26° 23.7′ N 56° 24.7′ E	**Fl.(2)W.** period 5s	10 **3**	5	ISOLATED DANGER BRB, beacon, topmark.	
28686 *D 7340.2*	Ghabnat Karban.	26° 22.0′ N 56° 21.7′ E	**Q.(6)+L.Fl.W.** period 15s	10 **3**	3	S. CARDINAL YB, beacon, topmark.	
28687 *D 7340.4*	-Jetty, NE.	26° 22.0′ N 56° 21.7′ E	**Fl.G.** period 5s	20 **6**	5	Gray metal post, building.	
28687.2 *D 7340.5*	--SW.	26° 22.0′ N 56° 21.7′ E	**L.Fl.G.** period 10s	20 **6**	5	Gray metal post; 7.	
28688 *D 7340*	Khawr Al Quway.	26° 21.9′ N 56° 21.6′ E	**Fl.(4)G.** period 10s	20 **6**	3	Gray metal post; 7.	
28690 *D 7334.8*	Bukha, N. breakwater.	26° 09.0′ N 56° 08.8′ E	**Iso.G.** period 2s	23 **7**	4	Black metal post; 7.	
28690.1 *D 7334.85*	-E. breakwater.	26° 09.0′ N 56° 08.8′ E	**Iso.R.** period 2s	20 **6**	4	Black metal post; 7.	
28691 *D 7340.65*	MGP breakwater, head.	26° 03.5′ N 56° 05.1′ E	**Fl.G.** period 4s		5	Green metal framework tower, green triangular daymark point up; 10.	
28692 *D 7341*	Al Jeeb, breakwater.	26° 02.6′ N 56° 04.9′ E	**Fl.(2)Y.** period 10s	21 **6**	5		
28696 *D 7344*	Ghalilah, breakwater.	26° 00.1′ N 56° 04.3′ E	**Fl.(3)Y.** period 15s	21 **6**	5		
28700 *D 7342*	Sha'am, breakwater.	26° 01.8′ N 56° 04.7′ E	**Fl.Y.** period 5s	21 **6**	5		

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			PERSIAN GULF				
28704 *D 7346*	Rams, N. Training Wall.	25° 53.4′ N 56° 00.4′ E	**Fl.(3)R.** period 15s	21 **6**	5		
28708 *D 7346.2*	-S. Training Wall.	25° 53.3′ N 56° 00.3′ E	**Fl.G.** period 5s	21 **6**	5		
28715 *D 7348*	Ras al Khaymah, boat harbor.	25° 46.0′ N 55° 54.9′ E	**Q.W.**		2		
28716 *D 7349*	Jazirat Al Hamra.	25° 43.4′ N 55° 47.9′ E	**Fl.W.** period 7s fl. 1s, ec. 6s	13 **4**	6		
28720 *D 7350*	Umm al Qaywayn, breakwater, head.	25° 36.6′ N 55° 34.7′ E	**Fl.Y.** period 5s fl. 0.5s, ec. 4.5s	16 **5**	6		Lighted beacons mark entrance channel.
28724 *D 7703*	**Jazireh-ye Tonb-e Bozorg.**	26° 16.2′ N 55° 17.9′ E	**Fl.W.** period 10s fl. 0.3s, ec. 9.7s	246 **75**	**18**	Metal framework tower; 82.	Obscured 077°-080° by peak on Jazireh-ye-Tonb-e Kuchek.
	RACON		**O(– – –)**				
28732 *D 7700*	Ras Dastakan.	26° 32.4′ N 55° 17.0′ E	**Fl.(3)W.** period 12s	40 **12**	7	White beacon.	
28740 *D 7704*	Jazireh-ye Tonb-e Kuchek.	26° 14.5′ N 55° 09.2′ E	**Fl.W.** period 10s	82 **25**	12	White beacon.	
28744 *D 7706*	Jazirat Abu Musa.	25° 53.1′ N 55° 02.1′ E	**Fl.W.** period 8s	427 **130**	9		
28756 *D 7699*	Lingeh, E. breakwater.	26° 32.8′ N 54° 53.3′ E	**Fl.G.** period 5s	30 **9**	8		
28760 *D 7699.2*	-W. breakwater.	26° 32.9′ N 54° 53.2′ E	**Fl.R.** period 5s	30 **9**	10		
28764 *D 7698*	Bostaneh.	26° 30.6′ N 54° 36.6′ E	**Fl.(3)W.** period 10s	82 **25**	12	White beacon, red bands.	
28768 *D 7695*	Jazireh-ye Forur.	26° 17.6′ N 54° 30.1′ E	**Fl.(2)W.** period 10s	558 **170**	12	White metal framework tower, red bands, 56.	
	RACON		**M(– –)**				(3 & 10cm).
28772 *D 7696*	Jazireh-ye Bani Forur.	26° 07.1′ N 54° 26.7′ E	**Fl.W.** period 5s	146 **44**	8		
28776 *D 7697*	Jazireh-ye Sirri.	25° 54.3′ N 54° 33.1′ E	**Fl.(3)W.** period 15s	100 **30**	10		
28784 *D 7697.2*	Jazireh-ye Sirri, E. breakwater.	25° 53.7′ N 54° 32.2′ E	**Fl.(2)G.** period 10s	19 **6**	5		
28788 *D 7697.4*	Jazireh-ye Sirri, W. breakwater.	25° 53.6′ N 54° 32.2′ E	**Fl.(2)R.** period 10s	19 **6**	5		
28790 *D 7694*	Bandar-e Charak.	26° 43.1′ N 54° 16.6′ E	**Fl.(2)R.** period 5s	16 **5**	7	Red pile, red square daymark.	
28790.1 *D 7694.1*	-E. beacon.	26° 43.2′ N 54° 17.0′ E	**Fl.(2)G.** period 5s	16 **5**	7	Green pile, green triangular daymark point up.	
28792 *D 7692*	**Jazireh-ye Kish.**	26° 30.6′ N 53° 58.8′ E	**Fl.(3)W.** period 7s	128 **39**	**15**	Red and white framework tower.	
	RACON		**O(– – –)**				
28800.5 *D 7692.15*	-Dih, W. breakwater, head.	26° 34.4′ N 54° 00.4′ E	**Fl.G.** period 5s				
28800.7 *D 7692.2*	-W. breakwater, E. head.	26° 34.1′ N 53° 59.9′ E	**Fl.G.** period 5s	16 **5**	3		
28800.8 *D 7692.3*	-Masheh, N. head.	26° 34.1′ N 54° 00.0′ E	**Fl.R.** period 5s		7		

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			PERSIAN GULF				
28801 *D 7692.3*	--E. breakwater, head.	26° 34.3′ N 54° 00.6′ E	**Fl.R.** period 5s				
28803 *D 7690.1*	Aftab, E. breakwater, head.	26° 43.1′ N 53° 55.7′ E	**Fl.G.** period 4s			Beacon.	
28803.1 *D 7690.2*	-W. breakwater, head.	26° 43.1′ N 53° 55.7′ E	**Fl.R.** period 4s			Beacon.	
28804 *D 7690*	Bandar-e Chiru.	26° 42.2′ N 53° 43.7′ E	**Fl.W.** period 5s		8	Concrete column; 7.	
28808 *D 7691*	Jazireh-ye Hendorabi.	26° 40.6′ N 53° 38.5′ E	**Fl.(3)W.** period 10s	190 **58**	10	Beacon.	
28812 *D 7689*	Ra's-e Nakhilu.	26° 51.4′ N 53° 29.4′ E	**Fl.(3)W.** period 18s	26 **8**	10	Beacon.	
28813 *D 7681.5*	Bandar-e Moqam.	26° 58.3′ N 53° 28.3′ E	**Fl.W.** period 5s	66 **20**	8		
28816 *D 7685*	**Jazireh-ye Lavan.**	26° 48.3′ N 53° 21.2′ E	**Fl.(3)W.** period 12s	177 **54**	**15**	Brown metal framework tower.	F.R. on radio tower close NW.
28820 *D 7685.4*	-Main.	26° 48.5′ N 53° 19.1′ E	**Oc.R.** period 3s **2 F.R.**	405 **123**	**20**	Radio tower; 328.	
28824 *D 7685.8*	-Boat Harbor, breakwater.	26° 48.0′ N 53° 23.0′ E	**Fl.R.** period 10s		5		
28832 *D 7686*	-Pipeline Range, front.	26° 47.7′ N 53° 20.2′ E	**F.R.**	112 **34**	12	Metal framework tower.	Visible 356°37′-006°37′.
28836 *D 7686.1*	--Rear, 850 meters 001°37′ from front.	26° 48.1′ N 53° 20.2′ E	**F.R.**	187 **57**	12	Metal framework tower.	Visible 356°37′-006°37′.
28840 *D 7686.3*	-Range, front.	26° 47.6′ N 53° 20.4′ E	**F.R.**		12		
28844 *D 7686.31*	--Rear, 680 meters 055° from front.	26° 47.8′ N 53° 20.7′ E	**F.R.**		12		Visible 051°-061°.
28848 *D 7686.5*	-Oil loading dock Range, front.	26° 47.6′ N 53° 19.7′ E	**Q.R.**			White post.	F.R. (occas) marks head and elbow of dock.
28852 *D 7686.51*	--Rear, about 230 meters 303°48′ from front.	26° 47.7′ N 53° 19.6′ E	**Q.W.**			White post.	
28856 *D 7685.6*	-Cargo ship anchorage Range, front.	26° 47.7′ N 53° 22.6′ E	**Q.R.**				
28860 *D 7685.61*	--Rear, about 222 meters 325°44′ from front.	26° 47.8′ N 53° 22.6′ E	**Q.W.**				
28864 *D 7688*	Jazireh-e Shitvar.	26° 47.7′ N 53° 24.2′ E	**Fl.(2)W.** period 10s		10	White beacon.	
28875	Al Shaheen Oilfield, Platform AS-AB.	26° 35.5′ N 52° 00.1′ E	**Mo.(U)W.** period 15s				
	RACON		**U(• • –)**				
28875.2	-Platform AS-BA.	26° 38.2′ N 51° 57.0′ E	**Mo.(U)W.** period 15s				
	-RACON		**B(– • • •)**				
28875.4	-Platform AS-CA.	26° 35.0′ N 51° 55.5′ E	**Mo.(U)W.** period 15s				
	-RACON		**C(– • – •)**				
28876 *D 7683*	**Shah Allum Shoal.**	26° 25.4′ N 52° 29.9′ E	**Fl.(2)W.** period 6s	98 **30**	**18**	ISOLATED DANGER BRB, beacon, topmark.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			PERSIAN GULF				
28878 *D 7681*	Bandare Shiu.	27° 04.8′ N 53° 08.6′ E	**Fl.(2)W.** period 6s	56 **17**	8	Red and white metal tower.	
28879 *D 7680.5*	-NW.	27° 07.7′ N 53° 00.1′ E	**Fl.(2)W.** period 10s		10		
28880 *D 7680*	**Ra's-e Nay Band.**	27° 23.2′ N 52° 34.8′ E	**Fl.W.** period 5s	95 **29**	**15**		
28881 *D 7680.3*	Bandar Nay Band.	27° 24.1′ N 52° 38.2′ E	**Fl.(2)W.** period 8s	30 **9**	8		
28881.1 *D 9162.6*	Bandar-e Pais, chemical port.	27° 32.3′ N 52° 32.7′ E	**Fl.(2)G.** period 6s	39 **12**	8	Green beacon.	
28881.2 *D 9162.65*	--Outer breakwater.	27° 32.0′ N 52° 32.6′ E	**Fl.(2)R.** period 6s	39 **12**	8	Red beacon.	
28881.3 *D 9162.7*	-Logistic Port.	27° 31.3′ N 52° 33.5′ E	**Fl.(2)G.** period 6s	39 **12**	8	Green beacon.	
28881.4 *D 9162.75*	--Outer breakwater.	27° 31.1′ N 52° 33.3′ E	**Fl.(2)R.** period 6s	39 **12**	8	Red beacon.	
28882 *D 7679.5*	Taheri.	27° 39.1′ N 52° 21.5′ E	**Fl.W.** period 10s		12		
28883 *D 7679.3*	Tombak.	27° 43.3′ N 52° 10.5′ E	**Fl.(2)W.** period 10s		12		
28883.1 *D 7679*	Kangan, outer breakwater.	27° 49.8′ N 52° 03.3′ E	**Fl.G.** period 5s	39 **12**			
28883.2 *D 7679.2*	-Inner breakwater.	27° 49.9′ N 52° 03.3′ E	**Fl.R.** period 5s	39 **12**			
28883.5 *D 7678*	Deyyer, outer breakwater.	27° 49.6′ N 51° 55.6′ E	**Fl.(3)G.** period 10s	13 **4**			
28883.6 *D 7678.2*	-Inner breakwater.	27° 49.6′ N 51° 55.6′ E	**Fl.(3)R.** period 10s	13 **4**			
28884	Platform, SW. of Ra′s ol Motaf.	27° 38.3′ N 51° 31.2′ E	**Fl.R.** period 5s		5	Platform.	
28888	Ra's ol Motaf RACON.	27° 36.3′ N 51° 26.7′ E	**T(–)**				(3 & 10cm).
28892 *D 7676*	Jabrin.	27° 51.4′ N 51° 26.6′ E	**Fl.(2)W.** period 8s		10		
28893 *D 7974.6*	Shilat.	27° 59.8′ N 51° 22.8′ E	**Fl.W.** period 5s	33 **10**	8	Tower.	
28895 *D 7674.5*	Lavar-e Saheli.	28° 15.3′ N 51° 16.0′ E	**Fl.(2)W.** period 6s	98 **30**	10		
28897 *D 7674*	Kalat.	28° 25.1′ N 51° 08.1′ E	**Fl.W.** period 5s	98 **30**	10	Beacon.	
	BUSHEHR:						
28902 *D 7670.5*	**-Ra's osh Shatt.**	29° 08.7′ N 50° 49.6′ E	**Fl.W.** period 6s	69 **21**	**18**		
28904 *D 7671*	-Outer Range, front, A.	29° 01.8′ N 50° 48.7′ E	**Iso.W.** period 2s		6	Pile beacon.	Channel to Bushehr marked by lit buoys and beacons. **Radar reflector.**
28908 *D 7671.1*	--Rear, B, 1,350 meters 043° from front.	29° 02.2′ N 50° 49.2′ E	**Iso.W.** period 4s		7	Pile beacon.	**Radar reflector.**
28916 *D 7664.4*	**Jazireh-ye Khark.**	29° 12.9′ N 50° 19.3′ E	**Fl.(2)W.** period 12s fl. 0.2s, ec. 2.8s fl. 0.2s, ec. 8.8s	295 **90**	**17**	Aluminum lattice tower; 46.	Obscured 151°-160° within 7 miles.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			PERSIAN GULF				
28924 *D 7665.2*	-Sea Island Terminal, S.	29° 13.5′ N 50° 17.2′ E	**3 F.R.** (vert.)				
28928 *D 7665.3*	-Sea Island Terminal N., 549 meters NNW. of S. light.	29° 13.7′ N 50° 17.1′ E	**3 F.R.** (vert.)				
28930 *D 7668.4*	-I.P.A.C. Boat Harbor, breakwater, elbow.	29° 13.2′ N 50° 20.0′ E	**Q.W.**		5		The dredged area in the harbor is marked by lights.
28940 *D 7666*	-Kharg Harbor, W. breakwater, head.	29° 16.0′ N 50° 19.7′ E	**Fl.(3)G.** period 10s				*Light reported unreliable (1989).*
28944 *D 7666.2*	--E. breakwater, head.	29° 16.0′ N 50° 19.7′ E	**Fl.(3)R.** period 10s				**Aero Radiobeacon** 0.6 mile SW.
28948 *D 7663*	Jazireh-ye Kharku, island, N. head.	29° 20.4′ N 50° 21.4′ E	**Fl.(3)W.** period 10s	59 **18**	10	Aluminum framework tower; 52.	Visible 041°-011°. **Radar reflector.**
28948.1 *D 7663.7*	-Airfield.	29° 20.3′ N 50° 21.3′ E	**Q.(3)W.** period 15s	66 **20**	10	White and black stripes.	
28950 *D 7662.8*	Bandar-e Rig, breakwater, head.	29° 26.3′ N 50° 37.3′ E	**Fl.(2)R.** period 6s	43 **13**	8		
28954 *D 7661.1*	Bandar-e Deylam, S. breakwater.	30° 03.5′ N 50° 08.3′ E	**Fl.(2)G.** period 8s	23 **7**	5		
28954.1 *D 7661*	-N. breakwater.	30° 03.6′ N 50° 08.3′ E	**Fl.(2)R.** period 8s	23 **7**	5		
28956 *D 7648*	*KHOWR-E MUSA LIGHTFLOAT.*	29° 37.0′ N 49° 34.0′ E	**Fl.W.** period 12s		**21**	Red light vessel.	
28957.5	*-Buoy No 9.*	29° 55.0′ N 49° 09.6′ E	**Fl.G.** period 3s			STARBOARD (A) G, pillar, topmark.	
	-RACON		**M(– –)**				(3 & 10cm).
	MARJAN/ZULUF TSS						
28958	-Oilfield North Approach RACON.	28° 32.0′ N 49° 30.2′ E	**N(– •)**		**16**		(3 & 10cm).
28959	*-Oilfield South Approach Buoy.*	28° 15.0′ N 49° 18.6′ E	**L.Fl.W.** period 10s			SAFE WATER RW, pillar, topmark.	
	-RACON		**G(– – •)**		11		
28972 *D 7613*	Khawr al Amaya Terminal.	29° 46.9′ N 48° 48.5′ E	**Fl.W.** period 5s	154 **47**	14	Radio tower, pile structure.	4 F.R. mark corners of terminal.
	AVIATION LIGHT.		**F.R.**			Radio tower	
	SHATT AL ARAB:						
28976 *D 7612*	-No 2 Beacon.	29° 48.2′ N 48° 44.5′ E	**Fl.G.** period 6s				*Destroyed (2007).*
28992 *D 7621*	-E. Approach Beacon.	29° 54.0′ N 48° 44.1′ E	**Fl.W.** period 4s	18 **5**	2	Pile structure, black framework topmark.	
28996 *D 7616*	-Outer Bar Reach Range, front Beacon B.	29° 51.1′ N 48° 45.1′ E	**Q.W.**	18 **5**	6	Beacon, white triangular daymark point up.	*Reported destroyed (1993).*
29000 *D 7616.1*	--Rear Beacon A, 1463 meters 121° from front.	29° 50.7′ N 48° 45.9′ E	**F.W.**	55 **17**	13	Beacon, black triangular daymark point up.	Intensified 118°-124°. *Reported destroyed (1993).*
	-Rooka Channel:						
29004 *D 7623*	-Inner Bar Range, front.	29° 52.8′ N 48° 41.8′ E	**Q.W.**	18 **5**	6	Pile structure, white triangular daymark, column.	Visible 119°-299°.
			Q.G.				

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			PERSIAN GULF				
29008 *D 7623.1*	--Rear, 0.8 mile 123°50′ from front.	29° 52.3′ N 48° 42.7′ E	**F.W.**	55 **17**	5	Pile structure, black framework tower, black triangular daymark.	Visible 120°-130°.
29012 *D 7615*	--Turning beacon.	29° 52.1′ N 48° 43.6′ E	**I.Q.Y.** period 8s	18 **5**	4	White column, black bands, piles.	*Reported destroyed (1993).*
29016 *D 7618*	--Beacon No 4, S. side of channel.	29° 52.8′ N 48° 43.9′ E	**Fl.W.** period 4s fl. 1s, ec. 3s	18 **5**	5	Red pile structure.	
29020 *D 7619*	-Beacon No 5.	29° 53.3′ N 48° 42.5′ E	**Fl.W.** period 6s fl. 1s, ec. 5s	18 **5**	6	Black pile structure.	
29024 *D 7622*	--W. Channel Range, front.	29° 53.5′ N 48° 41.7′ E	**Q.W.**	18 **5**	6	Beacon, white triangular daymark point up.	Visible 303°-309°.
29028 *D 7622.1*	---Rear, 549 meters 306° from front.	29° 53.9′ N 48° 41.2′ E	**Oc.W.** period 8s lt. 6s, ec. 2s	25 **8**	10		Visible 303°-309°.
29032 *D 7614*	Outer Bar Reach Range, front, Beacon C.	29° 52.9′ N 48° 42.0′ E	**Q.W.**	18 **5**	6	Pile beacon, white triangular daymark point up.	*Reported destroyed and replaced by buoy showing Q.W.*
29036 *D 7614.1*	--Beacon D, rear, about 1512 meters 304° from front.	29° 53.3′ N 48° 41.3′ E	**Oc.W.** period 8s lt. 5s, ec. 3s	55 **17**	9	Framework tower, piles, black triangular daymark point up.	
29044 *D 7620*	-Rooka Inner Beacon.	29° 54.2′ N 48° 38.3′ E	**Fl.W.** period 4s	18 **5**	11	Black framework tower, pile structure, black triangular daymark point down.	Visible 282°-287°.
29048 *D 7617*	-Outer Bar Reach Range, front Beacon E.	29° 54.6′ N 48° 38.6′ E	**Q.W.**	18 **5**	6	Pile structure, white triangular daymark point up.	
29052 *D 7617.1*	--Rear Beacon F, about 1509 meters 301° from front.	29° 55.0′ N 48° 37.8′ E	**Oc.W.** period 8s **Fl.(2)G.** period 11s	55 **17**	8	Pile structure, white round daymark.	Visible 028°-304°.
29056 *D 7624*	-Inner Bar Reach Range, front.	29° 56.9′ N 48° 34.8′ E	**Q.W.**	19 **6**	6	White round columns, pile structure, white triangular daymark.	Visible 259°-349°.
29060 *D 7624.1*	--Rear, 640 meters 303°50′ from front.	29° 57.1′ N 48° 34.4′ E	**Oc.W.** period 8s lt. 6s, ec. 2s	50 **15**	11	White framework tower, pile structure, black daymark.	Visible 294°-314°.
29064 *D 7625*	--Tide gauge and control tower.	29° 56.3′ N 48° 35.5′ E	**Q.R.**	20 **6**	2		Tide gauge.
29068 *D 7626*	-Outer Fao Reach Range, front.	29° 56.3′ N 48° 36.1′ E	**Q.W.**	15 **5**	6		Visible 062°-152°.
29072 *D 7626.1*	--Rear, 1097 meters 107° from front.	29° 56.2′ N 48° 36.8′ E	**Oc.W.** period 8s lt. 6s, ec. 2s	39 **12**	11		Visible 097°-117°.
29076 *D 7627*	-Fao Reach Range, front.	29° 57.6′ N 48° 30.7′ E	**Q.Y.**	10 **3**	4	White round beacon.	Visible 278°-286°.
29080 *D 7627.1*	--Rear, 823 meters 281°30′ from front.	29° 57.6′ N 48° 30.2′ E	**L.Fl.Y.** period 7.5s fl. 2s, ec. 5.5s	33 **10**	4	White metal framework tower.	Visible 278°-286°.
29084 *D 7630*	-Middle Fao Reach Range, front.	29° 57.3′ N 48° 31.5′ E	**Q.W.**	12 **4**	5	White metal framework tower, white triangular daymark point up.	Visible 077°-170°.
29088 *D 7630.1*	--Rear, 878 meters 123° from front.	29° 57.0′ N 48° 32.0′ E	**Oc.W.** period 8s	63 **19**	5	White framework tower, black daymark.	Visible 120°-126°.
29092 *D 7629*	-Fao Reach (Al Faw) Range, front.	29° 58.2′ N 48° 29.4′ E	**Q.W.**	30 **9**	6	White framework tower.	Visible 246°-335°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			PERSIAN GULF				
29096 *D 7629.1*	--Rear, 1653 meters 290°30′ from front.	29° 58.5′ N 48° 28.4′ E	**Oc.W.R.** period 8s lt. 6s, ec. 2s	75 **23**	7	Black framework tower, triangular daymark point up.	W. 143°-150°, R.-241°, W.-294°. Traffic and tide signals.
29100 *D 7632.9*	--Range, front, 677 meters 123° from common rear.	29° 59.6′ N 48° 27.3′ E	**Q.W.**	16 **5**	8	Pile structure, column, white triangular daymark.	Visible 288°-318°. In line 303° with common rear.
29104 *D 7633*	-Qasbat Reach, common rear.	29° 59.9′ N 48° 26.9′ E	**Oc.W.** period 8s lt. 6s, ec. 2s	54 **16**	6	White framework tower, black top, black triangular daymark point up.	Visible 138°-318°.
29108 *D 7633.1*	--Range, front, 347 meters 358° from common rear.	30° 00.0′ N 48° 26.9′ E	**Q.W.**	29 **9**	8	White metal framework, white diamond daymark.	Visible 168°-188°. In line 178° with common rear.
29112 *D 7635*	--Beacon A.	30° 00.7′ N 48° 26.5′ E	**Q.W.R.G.**	20 **6**			W. sector indicates anchorage.
29116 *D 7635.2*	--Beacon B.	30° 01.0′ N 48° 26.5′ E	**Q.W.R.G.**	20 **6**			W. sector indicates anchorage.
29120 *D 7635.6*	--Beacon C.	30° 01.2′ N 48° 26.4′ E	**Q.W.R.G.**	20 **6**			W. sector indicates anchorage.
29124 *D 7635.8*	--Beacon D.	30° 01.5′ N 48° 26.4′ E	**Q.W.R.G.**	20 **6**			W. sector indicates anchorage.
29128 *D 7637*	-Brick Kiln, W. side of channel.	30° 07.8′ N 48° 22.8′ E	**Fl.W.R.** period 6s	45 **14**	7	White metal mast, black bands.	W. 217°-224°, R.-334°30′, W.-347°30′.
29132 *D 7640*	-Range, front.	30° 13.5′ N 48° 22.5′ E	**Q.W.**	25 **8**			Visible 132°-312°.
29136 *D 7640.1*	--Rear, 732 meters 141° from front.	30° 13.2′ N 48° 22.8′ E	**Oc.W.** period 8s	80 **24**	10		Visible 132°-151°.
29140 *D 7639*	-W. Bank.	30° 14.5′ N 48° 21.4′ E	**Fl.G.** period 2s	17 **5**	5	Pile structure, white column, black bands.	
	KHAWR ‘ABD ALLAH:						
29143 *D 7604.4*	-Khawr Al Qayd, N23.	29° 45.9′ N 48° 26.9′ E	**Fl.(3)G.** period 5s	10 **3**	5	Green beacon.	
29143.1 *D 7604.5*	--N21.	29° 47.6′ N 48° 25.6′ E	**Fl.(2)G.** period 5s	10 **3**	5	Green pile beacon, platform.	
29143.2 *D 7604.6*	--N22.	29° 54.2′ N 48° 17.6′ E	**Fl.R.** period 5s	10 **3**	5	Red beacon.	
29143.3 *D 7604.7*	--N20.	29° 56.8′ N 48° 14.5′ E	**Fl.(2)R.** period 5s	10 **3**	5	Red pile beacon, platform.	
29143.4 *D 7604.8*	--N18.	29° 58.6′ N 48° 11.7′ E	**Fl.(3)R.** period 5s	10 **3**	5	Red pile beacon, platform.	
29144 *D 7605*	-Warbah Spit.	30° 00.6′ N 48° 12.1′ E	**Q.W.**	12 **4**		White triangular daymark point up.	
29146 *K 7605.5*	-Khawr Bubiyan, N16.	29° 58.0′ N 48° 03.7′ E	**Fl.(3)R.** period 5s	10 **3**	5	Red beacon.	
29146.1 *D 7605.4*	--N17.	29° 58.6′ N 48° 06.4′ E	**Q.W.**	10 **3**	5	Black beacon, yellow base.	
29146.2 *D 7605.3*	--N19.	30° 00.0′ N 48° 08.2′ E	**Fl.(3)+L.Fl.Y.**	10 **3**	5	Yellow beacon.	
29176 *D 7573*	**Al Kubr.**	29° 04.3′ N 48° 29.6′ E	**Fl.(2)W.** period 10s fl. 0.2s, ec. 2.3s fl. 0.2s, ec. 7.3s	91 **28**	**18**	White framework tower, black bands.	
	RACON		**K(– • –)**		**18**		(3 & 10cm).
29180 *D 7573.2*	-M35.	29° 04.8′ N 48° 29.0′ E	**Q.W.**			Yellow beacon, black top.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			PERSIAN GULF				
29184 *D 7588*	Jazirat Auhuh.	29° 22.6′ N 48° 26.4′ E	**Fl.(3)W.** period 10s	75 **23**	5	White metal framework tower, black bands; 66.	
29184.3 *D 7589.52*	-No 2.	29° 18.8′ N 48° 24.2′ E	**V.Q.(6)+L.Fl.W.** period 10s			Yellow and black beacon.	
29185 *D 7590*	Jazirat Faylakah,As Zawr, Boat Harbor, N. entrance, E. side.	29° 25.8′ N 48° 16.0′ E	**Fl.R.**				
29185.1 *D 7590.2*	---W. side.	29° 25.7′ N 48° 16.0′ E	**Fl.G.**				
29185.3 *D 7590.4*	--S. entrance, W. side.	29° 25.5′ N 48° 16.2′ E	**Fl.R.**				
29185.4 *D 7590.5*	---E. side.	29° 25.6′ N 48° 16.3′ E	**Fl.G.**				
29186 *D 7591*	-Ra′s Al Qihah, Ferry Harbor, N. breakwater.	29° 25.8′ N 48° 16.0′ E	**Fl.R.**				
29186.1 *D 7591.2*	---S. breakwater.	29° 25.7′ N 48° 16.0′ E	**Fl.G.**				
	KHALIJ AL KUWAIT:						
29188 *D 7595*	-Beacon.	29° 24.8′ N 47° 59.7′ E	**Q.W.R.**	20 **6**	7	Beacon.	W. 180°-290°, R. 180°.
29192 *D 7595.5*	-Fasht al Hadiba.	29° 24.9′ N 47° 58.6′ E	**Fl.(3)W.** period 10s	20 **6**	8	Beacon.	
29196 *D 7596*	-Outer Entrance Channel Range, front.	29° 22.5′ N 47° 56.3′ E	**Fl.Bu.** period 2.5s	36 **11**	5	Framework tower.	
29200 *D 7596.1*	--Rear, 808 meters 224°30′ from front.	29° 22.2′ N 47° 56.0′ E	**Dir.W.R.G.** period 2s		10		F.G. 222°-224°, F.W.-225°, F.R.-227°.
29202 *D 7598.7*	-AVIATION LIGHT.	29° 22.1′ N 47° 58.5′ E	**Q.W.**			Radio tower; 1220.	
			F.R.				
29209 *D 7599*	-Ash Shuwaykh, breakwater, head.	29° 21.5′ N 47° 56.0′ E	**Fl.Y.** period 3s	13 **4**	3		Dolphins close S marked by F.G. and F.R. lights. Berths marked by Q.G. and Q.R. lights.
29210 *D 7601*	-Ra′s Al Akaz.	29° 23.7′ N 47° 56.3′ E	**Fl.W.** period 3s	10 **3**		Black and yellow beacon.	
29211 *D 7602.9*	**-Mina ad Dawhah.**	29° 22.8′ N 47° 48.0′ E	**Fl.(3)W.** period 20s		**15**	White beacon.	
29212 *D 7594.4*	-Medina Island.	29° 23.9′ N 47° 59.5′ E	**Fl.W.** period 5s	18 **5**	8	Black steel tower, white bands; 10.	
29216 *D 7594*	-Ras Ajuza.	29° 23.5′ N 47° 59.8′ E	**Mo.(KHC)G.** period 30s	98 **30**	10		Visible 020°-340°.
29220 *D 7592*	**-Ra's al Ard.**	29° 21.1′ N 48° 06.1′ E	**Fl.W.** period 5s fl. 0.2s, ec. 4.8s	86 **26**	**16**	Black metal framework tower, white bands; 72.	
	-RACON		**Q(– – • –)**		**22**		(3 & 10cm).
29220.2 *D 7593*	-Al Bida Marina, S. breakwater.	29° 19.3′ N 48° 05.6′ E	**Fl.R.**				
29220.4 *D 7593.2*	--N. breakwater.	29° 19.5′ N 48° 05.7′ E	**Fl.G.**				
29221 *D 7593.4*	-Ra′s Al Ard, Ferry Harbor, E. breakwater.	29° 21.1′ N 48° 05.9′ E	**Fl.R.**				

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			PERSIAN GULF				
29221.4 *D 7593.6*	-Ash-Shaab Marina, E. breakwater.	29° 20.7′ N 48° 03.0′ E	**Fl.R.**				
29221.6 *D 7593.7*	---W. breakwater.	29° 20.7′ N 48° 03.0′ E	**Fl.G.**				
29222 *D 7593.8*	-Al Kuwait Marina, S. breakwater.	29° 22.8′ N 48° 00.5′ E	**Fl.R.**				
29222.2 *D 7593.9*	--N. breakwater.	29° 22.8′ N 48° 00.5′ E	**Fl.G.**				
29224 *D 7603*	-Mashjan.	29° 29.1′ N 48° 15.1′ E	**Q.(4)W.** period 30s	35 **11**	10	Black metal framework steel tower; 36.	
29226 *D 7603.3*	--Off W. end.	29° 29.0′ N 48° 14.3′ E	**Q.(9)W.** period 15s	10 **3**	5	Yellow beacon, black band.	
29228 *D 7604*	--Maskan Reef.	29° 30.0′ N 48° 14.7′ E	**Q.W.**	16 **5**	5		
29232	-Ahmadi RACON.	28° 56.2′ N 48° 53.0′ E	**M(– –)**		**16**		(3 & 10cm).
29236 *D 7571*	-Mudayrah Reef.	28° 56.2′ N 48° 46.3′ E	**Fl.R.** period 5s fl. 1s, ec. 4s	35 **11**	11	Metal tripod, white pedestal, red bands.	**Radar reflector.**
29240 *D 7572*	-Taylor Rock Beacon.	29° 01.5′ N 48° 34.6′ E	**Q.(6)W.** period 10s	35 **11**	7	Metal tripod, white pedestal, black bands.	**Radar reflector.**
29246 *D 7580*	Mina' Abdullah Range, front.	29° 00.2′ N 48° 09.7′ E	**F.W.**			Beacon.	Occasional.
29246.5 *D 7580.1*	-Rear 730 meters 247° from front.	29° 00.1′ N 48° 09.3′ E	**F.W.**			Beacon.	Occasional.
29248 *D 7580.4*	-S. jetty.	29° 01.0′ N 48° 09.7′ E	**F.R.**		1		
29248.1 *D 7580.3*	-N. jetty.	29° 01.0′ N 48° 09.7′ E	**F.G.**				
29249 *D 7582.7*	Mina Ash Shu'aybah, Petroleum Products Pier.	29° 02.5′ N 48° 10.4′ E	**Fl.R.** period 5s				**Horn:** 1 bl. ev. 20s (bl. 2s, si. 18s).
29249.1 *D 7582.6*	-N. head.	29° 02.6′ N 48° 10.3′ E	**Fl.R.** period 3s	16 **5**	4	Dolphin.	
29249.2 *D 7582.8*	-S. head.	29° 02.3′ N 48° 10.6′ E	**Fl.G.** period 3s	16 **5**	4	Dolphin.	
29252 *D 7582.4*	-N. breakwater, head.	29° 02.7′ N 48° 09.9′ E	**Fl.G.** period 3s fl. 0.3s, ec. 2.7s	29 **9**	4	Metal mast; 13.	
29252.1 *D 7582*	-S. breakwater, E. head.	29° 02.6′ N 48° 10.0′ E	**Fl.R.** period 3s	20 **6**	4		R. light 51m on control tower 60 meters W. Fl.R. 4M near Berth "2", 260 meters SW.
29252.2 *D 7582.2*	--W. head.	29° 02.6′ N 48° 10.0′ E	**F.R.**	16 **5**	4		
29252.3 *D 7582.5*	-Barge Quay.	29° 02.3′ N 48° 09.8′ E	**2 F.G.** (vert.)		3		
29264 *D 7585.6*	-Mina'al Ahmadi oil pier, S. head.	29° 03.8′ N 48° 09.8′ E	**F.W.**				3 F.R. lights on S. end of pier. 3 F.R. lights on N. end of pier 0.6 mile NW. **Diaphone:** 1 bl. ev. 60s (bl. 3s, si. 57s).
29265 *D 7586*	-K.O.C. Boat Harbor, detached breakwater, S. head.	29° 03.6′ N 48° 09.4′ E	**Fl.G.** period 5s			Green beacon.	
29266 *D 7586.2*	--N. head.	29° 03.7′ N 48° 09.4′ E	**Fl.R.** period 5s			Red beacon.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			PERSIAN GULF				
29268 *D 7586.7*	-Bitumen pier, head.	29° 04.1′ N 48° 09.4′ E	**3 Fl.G.** period 10s				Lights in shape of a triangle at N. and S. ends of pier. **Horn:** 1 bl. ev. 20s (bl. 2s, si. 18s).
29269 *D 7587*	-Al Fuhaihil Marina, E. breakwater.	29° 05.6′ N 48° 08.5′ E	**Fl.R.**				
29269.1 *D 7587.2*	W. breakwater.	29° 05.6′ N 48° 08.5′ E	**Fl.G.**				
29270 *D 7587.62*	Abu Hulayfah, N. pier, N. head.	29° 07.9′ N 48° 08.9′ E	**F.R.**				
29270.1 *D 7587.63*	-S. head.	29° 07.5′ N 48° 09.1′ E	**F.R.**				F.R. 100 meters S. **Diaphone:** 3 bl. ev. 60s. (bl. 2.5s, si. 3s, bl. 2.5s, si. 3s, bl. 2.5s, si. 46.5s). 225 meters N.
29271 *D 7585*	Mina Al Ahmadi Sea Island Terminal.	29° 07.0′ N 48° 17.5′ E	**Mo.(U)W.** period 15s				**Diaphone:** 2 bl. ev. 90s.
			Mo.(U)R. period 15s				
29271.1 *D 7585.1*	-N. end.	29° 07.1′ N 48° 17.5′ E	**Fl.W.R.**				
29271.2 *D 7585.15*	-S. end.	29° 06.9′ N 48° 17.6′ E	**Fl.W.**				
			Mo.(U)W. period 15s				
29273 *D 7587.8*	Qit'at Funaitis.	29° 13.8′ N 48° 07.0′ E	**Q.W.**	10 **3**	5	Black beacon, yellow base.	
29276 *D 7603.8*	Jazirat Faylakah, M26.	29° 29.4′ N 48° 17.9′ E	**Q.W.**			Yellow beacon, black top.	
29276.6 *D 7589.7*	-M27.	29° 27.5′ N 48° 22.5′ E	**Fl.(3)W.** period 10s	10 **3**	5	Black beacon, yellow band.	
29276.8 *D 7589.8*	-M28.	29° 31.1′ N 48° 36.1′ E	**Fl.(3)+L.Fl.Y.**	16 **5**	10	Yellow pile structure.	
29278 *D 7589*	-No M31, off SW. end.	29° 25.1′ N 48° 15.8′ E	**V.Q.(6)+L.Fl.W.** period 10s			Black beacon, yellow top.	
29280 *D 7589.4*	-M30, off SE. end.	29° 22.6′ N 48° 23.4′ E	**V.Q.(6)+L.Fl.W.** period 10s			Black beacon, yellow top.	
29284 *D 7589.6*	-No M29, off E. end.	29° 23.4′ N 48° 28.2′ E	**V.Q.(3)W.** period 5s			Black beacon, yellow band.	
29285 *D 7603.5*	Al Wakir, M22.	29° 28.4′ N 48° 16.3′ E	**Fl.(3)+L.Fl.Y.**	10 **3**	5	Yellow beacon.	
29285.2 *D 7603.6*	-M21.	29° 28.9′ N 48° 16.9′ E	**Fl.(3)+L.Fl.Y.**	10 **3**	5	Yellow beacon.	
29288 *D 7607.8*	Khawr as Sabiyan, No 2.	29° 32.8′ N 48° 14.5′ E	**Fl.(3)R.** period 5s			Red beacon.	Several lights mark Khawr as Sabiyan.
29292 *D 7579*	Qitat Urayfiyan.	28° 59.9′ N 48° 15.7′ E	**Q.(3)W.** period 10s			Black pile, yellow band.	
29296 *D 7578.2*	Ras al Qulay'ah, M40.	28° 56.0′ N 48° 21.8′ E	**Q.(3)W.** period 10s			Black pile, yellow band.	
29296.1 *D 7578.4*	-M41.	28° 54.3′ N 48° 16.2′ E	**Q.W.**			Yellow beacon, black top.	Occasional.
29300 *D 7578*	-M39.	28° 55.3′ N 48° 20.0′ E	**Fl.(2)W.** period 15s			Black pile, red band.	
29301 *D 7577.4*	Kuwait Naval Base, W. breakwater, head.	28° 51.9′ N 48° 17.2′ E	**Fl.G.** period 2s				

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			PERSIAN GULF				
29301.1 *D 7577.3*	-E. breakwater, head.	28° 52.0′ N 48° 17.4′ E	**Fl.(3)R.**		10		**Horn:** 1 bl. ev. 20s.
29301.5 *D 7577.2*	-Beacon No 7.	28° 52.1′ N 48° 17.4′ E	**Fl.G.** period 3s			Beacon, green square daymark.	
29302	-L1A.	28° 52.1′ N 48° 17.0′ E	**Fl.W.R.G.**				G. 264°-266°, W.-267°, R.-269°.
29303.2 *D 7575.655*	Dawahat Az Zawr, S1.	28° 51.1′ N 48° 17.1′ E	**Q.W.**			Black beacon, yellow base.	
29303.3 *D 7575.66*	-S2.	28° 50.8′ N 48° 17.3′ E	**V.Q.(6)+L.Fl.W.** period 10s			Yellow beacon, black base.	
29303.4 *D 7575.665*	-S3.	28° 50.6′ N 48° 18.0′ E	**V.Q.(6)+L.Fl.W.** period 10s			Yellow beacon, black base.	
29303.5 *D 7575.67*	-S4.	28° 50.2′ N 48° 18.7′ E	**V.Q.(6)+L.Fl.W.** period 10s			Yellow beacon, black base.	
29303.6 *D 7575.675*	-S5.	28° 48.2′ N 48° 20.3′ E	**Q.W.**			Black beacon, yellow base.	
29303.7 *D 7575.68*	-S7.	28° 45.7′ N 48° 20.9′ E	**Q.W.**			Black beacon, yellow base.	
29304 *D 7575.6*	Raz az Zawr.	28° 48.7′ N 48° 25.9′ E	**Q.(3)W.** period 10s		5	Black pile, yellow band.	
29308 *D 7576*	Mina Su'ud, jetty, head.	28° 41.5′ N 48° 23.4′ E	**5 Mo.(U)G.** period 15s				Lights mark pier head. **Horn:** 4 bl. ev. 60s. (bl. 3s, si. 3s, bl. 3s, si. 3s, bl. 3s, si. 3s, bl. 3s, si. 39s).
29310 *D 7575.4*	Az Zawr Beacon.	28° 44.7′ N 48° 24.2′ E	**Q.(6)+L.Fl.W.** period 15s	10 **3**	2	S. CARDINAL YB, beacon, topmark.	
29312 *D 7575*	Ra's Az Zawr.	28° 44.5′ N 48° 23.7′ E	**Oc.W.R.** period 5s		5	White tower, red stripes; 23.	W. 155°-245°, R.-265°, W.-355°.
29312.1 *D 7575.7*	-No 1.	28° 45.2′ N 48° 24.9′ E	**Q.(3)W.** period 10s	16 **5**	5	E. CARDINAL BYB, beacon, topmark.	
29312.2 *D 7575.75*	-No 2.	28° 45.6′ N 48° 25.0′ E	**V.Q.(3)W.** period 5s	16 **5**	5	E. CARDINAL BYB, beacon, topmark.	
29312.3 *D 7575.8*	-No 3.	28° 45.9′ N 48° 24.8′ E	**Q.W.**	16 **5**	5	N. CARDINAL BY, beacon, topmark.	
29312.4 *D 7575.85*	-No 4.	28° 45.9′ N 48° 24.4′ E	**V.Q.W.**	16 **5**	5	N. CARDINAL BY, beacon, topmark.	
29312.5 *D 7575.9*	-No 5.	28° 45.8′ N 48° 23.2′ E	**Q.(9)W.** period 15s	16 **5**	5	W. CARDINAL YBY, beacon, topmark.	
29312.6 *D 7575.65*	-No 136.	28° 47.7′ N 48° 23.3′ E	**Fl.(2)W.** period 5s			Black beacon, red band.	
29313 *D 7575.5*	--Offshore structure.	28° 46.0′ N 48° 26.1′ E	**Fl.(4)W.** period 15s	19 **6**	5	White metal structure; 20.	
29316 *D 7569*	Jazirat Quaru.	28° 49.1′ N 48° 46.5′ E	**Fl.W.** period 10s	45 **14**	5		
29320 *D 7569.2*	-NNW.	28° 50.2′ N 48° 45.9′ E	**Q.W.**			Yellow beacon, black top.	
29324 *D 7568*	Umm Al Maradim.	28° 40.7′ N 48° 39.1′ E	**Fl.(2)W.** period 15s	75 **23**	10		
29328 *D 7568.2*	-NW.	28° 42.9′ N 48° 37.9′ E	**Q.W.**			Yellow beacon, black top.	
29330 *D 7568.4*	Qit'at al Bunayyah.	28° 37.1′ N 48° 25.7′ E	**Q.W.**		5	Black beacon, yellow base.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			PERSIAN GULF				
29332	*Ras Al Khafji Approach Buoy No 1.*	28° 36.0′ N 49° 10.0′ E	**Iso.W.** period 10s			SAFE WATER RW, pillar, topmark.	Several lighted buoys are shown westward toward Ras al Khafji.
29336 *D 7500*	Khafji Terminal, control platform.	28° 27.1′ N 48° 35.8′ E	**Fl.R.** period 10s	52 **16**	10	Platform.	
29340 *D 7505*	-Range, front.	28° 24.7′ N 48° 31.3′ E	**F.R.**	52 **16**	4		
29344 *D 7505.1*	--Rear, 335 meters 234°42′ from front.	28° 24.6′ N 48° 31.1′ E	**F.R.**	75 **23**	7		
29344.5 *D 7505.4*	-N. side of entrance.	28° 25.1′ N 48° 31.7′ E	**Fl.G.** period 10s				
29346 *D 7457.6*	Fasht Buldani, FBN.	28° 16.8′ N 49° 05.0′ E	**Fl.W.** period 10s				**Radar reflector.**
	RACON		**Q(– – • –)**				(3 & 10cm).
29347 *D 7457.3*	-FBE.	28° 07.2′ N 49° 10.3′ E	**Fl.G.** period 10s				**Radar reflector.**
29348 *D 7457*	-FBS.	27° 54.1′ N 49° 20.0′ E	**Fl.W.** period 10s				**Radar reflector.**
29352 *D 7462*	Bandar Al Mish'ab.	28° 06.8′ N 48° 38.0′ E	**Oc.W.** period 2.3s			Silo; 156.	Oc.W. 2.3s lights shown from 5 silos.
	AVIATION LIGHT.		**F.R.**				F.R. lights shown from floodlit towers.
	RA'S AL MISHA'AB:						
29364 *D 7455*	**-Jazireh-ye Farsi.**	27° 59.5′ N 50° 10.3′ E	**Fl.W.** period 15s	92 **28**	**16**	Black metal framework tower, white band; 75.	
	-RACON		**M(– –)**		**24**		(3 & 10cm).
29368 *D 7454*	**-Al Arabiyah.**	27° 46.6′ N 50° 10.5′ E	**2 Fl.(2)W.**(vert.) period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	75 **23**	**15**	Red and white metal framework tower.	Q.R. 3m 3M marks jetty head 102 meters W.
29369 *D 7452*	-Range, front.	27° 47.0′ N 48° 52.4′ E	**Iso.W.** period 2s			Red metal pile, white bands.	
29370 *D 7452.1*	--Rear, 390 meters 270° from front.	27° 47.0′ N 48° 52.1′ E	**Iso.W.** period 4s			Red metal piles, white bands.	
29372 *D 7456*	Harqus.	27° 56.2′ N 49° 40.9′ E	**Fl.W.** period 10s	29 **9**	8	Beacon; 13.	
29376 *D 7447*	Al Qiran.	27° 43.2′ N 49° 49.6′ E	**Fl.W.** period 10s	13 **4**	8	Metal tripod.	*Reported Fl.(2)W. 10s 4m 8M (1985).*
29384 *D 7450*	Beacon TE-1.	27° 45.3′ N 49° 24.3′ E	**Fl.G.** period 10s				Channel marked by beacons.
	RACON		**K(– • –)**		**18**		(3 & 10cm).
29388 *D 7449*	-NW. Beacon.	27° 42.9′ N 49° 21.3′ E	**Fl.W.** period 7s		3	Beacon.	
29392 *D 7450.4*	-SW. Beacon.	27° 44.0′ N 49° 11.7′ E	**Fl.W.** period 7s		2		
29396 *D 7446*	Al Qurayyin.	27° 38.9′ N 49° 49.2′ E	**Fl.G.** period 10s	13 **4**	2	Metal tripod.	*Reported Fl.(2)G. 10s 4m 8M (1985).*
29400 *D 7445*	Janah.	27° 22.2′ N 49° 53.9′ E	**Fl.W.** period 10s	13 **4**	8	Metal tripod.	
29402 *D 7435*	Essa Reef.	27° 02.1′ N 49° 56.1′ E	**Fl.(2)W.** period 10s			Metal column; 26.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			PERSIAN GULF				
29404 *D 7436*	Ra's al Ghar Range, front.	26° 52.5′ N 49° 50.9′ E	**Iso.R.**	13 **4**	4		**Radar reflector.**
29408 *D 7436.1*	-Rear, 300 meters 214° from front.	26° 52.4′ N 49° 50.8′ E	**Iso.R.**	13 **4**	6		**Radar reflector.**
29410 *D 7434.7*	Ra's al Ju'aymah, entrance.	26° 51.9′ N 49° 54.6′ E	**Fl.G.** period 5s				
29416 *D 7443.1*	Jazirat Al Jurayd, radar tower.	27° 11.8′ N 49° 57.5′ E	**F.R.**			Tower.	
	RACON		**D(– • •)**				
	AL JUBAYL:						
29418 *D 7437*	-Small boat harbor.	26° 59.7′ N 49° 40.4′ E	**Fl.G.** period 3s		5		
29419 *D 7437.5*	-Fishing Harbor, breakwater, head.	27° 00.7′ N 49° 40.8′ E	**Fl.R.** period 4.5s		2	Pole.	
29420 *D 7438*	-S. breakwater, S. head.	27° 00.6′ N 49° 40.9′ E	**Fl.G.** period 2s		5	Pole; 39.	
29424 *D 7438.4*	--N. head.	27° 01.8′ N 49° 42.0′ E	**Fl.W.R.** period 2s		12	Metal framework tower.	**Horn:** Mo.(A).
29428 *D 7438.6*	-E. breakwater, S. head.	27° 02.1′ N 49° 42.5′ E	**Fl.W.G.** period 3s		4	Metal post.	G. 201°54′-080°48′, W.-201°54′.
29432 *D 7438.8*	--N. head.	27° 04.1′ N 49° 41.9′ E	**Fl.W.R.** period 4s		4	White metal tower, red bands.	W. 140°12′-225°, R.-310°, W.-338°18′, R.-019°48′, W.-092°, R.-140°12′.
29440 *D 7439*	-N. Breakwater, S. head.	27° 04.3′ N 49° 42.2′ E	**Fl.W.G.** period 2s	29 **9**	3	White metal tower, red bands.	W. 100°12′-306°42′, G.-100°12′ .
29444 *D 7439.4*	-O.S.T.T. Pier, S. head.	27° 04.3′ N 49° 43.6′ E	**Q.(6)+L.Fl.W.** period 15s	36 **11**			
29448 *D 7439.5*	--Center.	27° 04.8′ N 49° 43.3′ E	**Q.R.**	42 **13**		Gray pole.	**Horn:** Mo.(U).
29452 *D 7439.6*	--N. head.	27° 05.3′ N 49° 43.0′ E	**Fl.(2)R.** period 5s	36 **11**	1	Gray pole.	
29460 *D 7439.8*	-Causeway.	27° 04.8′ N 49° 40.1′ E	**Fl.Y.** period 3s	16 **5**	1	Gray pole.	
29464 *D 7441.6*	-King Abdul Aziz Naval Base, N. breakwater, E1.	26° 58.9′ N 49° 42.0′ E	**Fl.(2)G.** period 10s		3	STARBOARD (A) G, post, topmark.	
29468 *D 7441.4*	--Detached breakwater, N. head, E2.	26° 58.8′ N 49° 42.2′ E	**Fl.(2)R.** period 10s		3	PORT (A) R, post, topmark.	
29472 *D 7441.5*	---S. head, E3.	26° 58.3′ N 49° 42.4′ E	**Fl.(3)G.** period 10s		3	STARBOARD (A) G, post, topmark.	
29476 *D 7441*	--Range, front, RL2.	26° 57.9′ N 49° 41.6′ E	**Q.R.**		7		
29480 *D 7441.1*	---Rear, RL1, 400 meters 203° from front.	26° 57.7′ N 49° 41.5′ E	**Oc.R.** period 8s		7		
29484 *D 7442.5*	--Range, front, RL4.	26° 57.0′ N 49° 42.4′ E	**Fl.Y.** period 2s		5		
29488 *D 7442.51*	---Rear, RL3, 600 meters 203° from front.	26° 56.7′ N 49° 42.2′ E	**Oc.Y.** period 5s		5		
	JU'AYMAH APPROACH:						
29500	-Ju'aymah RACON.	27° 12.6′ N 50° 38.9′ E	**Z(– – • •)**		**16**		(3 & 10cm).

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			PERSIAN GULF				
29504 *D 7425*	Ju'aymah, No 1.	27° 02.3′ N 50° 07.9′ E	**Q.(3)W.** period 10s			Black and white beacon.	**Radar reflector.**
29508	*Hair Abu Athama Shoal Buoy.*	26° 53.0′ N 50° 58.0′ E	**Fl.(2)W.** period 10s			ISOLATED DANGER BRB, pillar, topmark.	
29511 *D 7420*	Pipe.	27° 16.7′ N 51° 03.0′ E	**Fl.R.** period 4s		5	Black metal pole, orange and white bands.	
	RA'S AT TANNURA APPROACH:						
29520	*-Ras Tannurah Buoy.*	27° 06.1′ N 50° 57.5′ E	**L.Fl.W.** period 10s			SAFE WATER RW, pillar, topmark.	**Radar reflector.**
	-RACON		**K(– • –)**		**16**		(3 &10cm).
29532 *D 7424*	-Garibah.	26° 59.5′ N 50° 13.0′ E	**Q.(6)+L.Fl.W.** period 15s	30 **9**	10	S. CARDINAL YB, beacon, topmark.	
	-RACON		**B(– • • •)** period 72s		**20**		(3cm).
29533 *D 7434.6*	-Ras al Ju'aymah, LPG Terminal Range, front.	26° 51.7′ N 50° 02.5′ E	**Fl.R.** period 10s				
29533.1 *D 7434.61*	--Rear, 300 meters 244°42′ from front.	26° 51.7′ N 50° 02.4′ E	**Fl.G.** period 10s				
29534 *D 7427*	-RTN beacon.	26° 42.0′ N 50° 10.1′ E	**Fl.W.** period 7s	29 **9**	5	Red pile structure.	**Radar reflector.**
29535 *D 7428.6*	-S. on shallow patch.	26° 40.8′ N 50° 09.6′ E	**Fl.W.** period 10s			Pile structure.	
29536 *D 7428*	-Range, front.	26° 39.4′ N 50° 09.7′ E	**Q.R.**	20 **6**		Red four-pile beacon, black stripe, white round topmark.	Visible 220°42′-348°42′.
29540 *D 7428.1*	--Rear, 310 meters 284°40′ from front.	26° 39.5′ N 50° 09.5′ E	**Q.G.**	26 **8**		Red four-pile beacon, black stripe, white round topmark.	Visible 220°42′-348°42′.
29544 *D 7428.8*	-Range, front.	26° 38.4′ N 50° 09.7′ E	**F.R.**			Black wooden framework tower, white stripe; 13.	
29548 *D 7428.81*	--Rear, 213 meters 271°45′ from front.	26° 38.4′ N 50° 09.6′ E	**F.G.**			Aluminum tank, black round topmark.	
29552 *D 7429.8*	-North pier, N. head.	26° 39.1′ N 50° 10.1′ E	**F.R.**			Tower.	
29556 *D 7429.6*	--Beacon, center of pier.	26° 38.9′ N 50° 10.0′ E	**Fl.R.** period 10s				F.R. on same structure. **Radar reflector.**
29560 *D 7429.5*	--Beacon, S. head.	26° 38.8′ N 50° 10.1′ E	**Fl.R.** period 10s				**Radar reflector.**
29564 *D 7429.3*	-South pier, N. head.	26° 38.3′ N 50° 10.2′ E	**Fl.Y.** period 10s				
29568 *D 7429.2*	--Beacon, S. head.	26° 38.2′ N 50° 10.2′ E	**Fl.Y.** period 10s				
29572 *D 7428.4*	-Sea Island, No 15, N. end.	26° 40.5′ N 50° 11.0′ E	**F.R.**	29 **9**		Dolphin.	F.R. lights on crane 1.3 miles S.
29573 *D 7428.45*	--No 1, S. end.	26° 39.6′ N 50° 11.0′ E	**F.R.**	29 **9**		Dolphin.	
29576 *D 7429*	--S. end.	26° 37.6′ N 50° 09.8′ E	**Fl.W.** period 10s fl. 1s, ec. 9s			Black metal framework tower, white band; 49.	1 Fl.R. light on tower close N.
	AD DAMMAM:						
29580 *D 7431*	-Abd al Aziz Port, Najwah Shoal.	26° 34.2′ N 50° 14.5′ E	**Fl.W.R.** period 10s	36 **11**	W. 10 R. 7	White framework tower, red bands.	W. 015°-206°, R.-015°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			PERSIAN GULF				
29584 *D 7432*	-No 1 Range, front.	26° 30.0′ N 50° 13.5′ E	**Q.W.**	46 **14**	7	White framework tower, red bands.	Visible 131°-145°.
29588 *D 7432.1*	--Rear, No 2, 370 meters 138° from front.	26° 29.9′ N 50° 13.7′ E	**Fl.W.** period 4s **Fl.(2)W.** period 5s	82 **25**	7	White framework tower, red bands.	Visible 131°-145°.
29592 *D 7432.4*	-W. mole, NE. corner.	26° 31.5′ N 50° 11.9′ E	**Fl.G.** period 5s			Green and white pillar.	
29596 *D 7432.8*	--Berth 38.	26° 29.8′ N 50° 11.4′ E	**Fl.W.** period 4s			Green and white beacon.	
29600 *D 7433*	-Center mole, NW. corner.	26° 30.9′ N 50° 11.9′ E	**Fl.(2)W.R.G.** period 9s			Green and white beacon.	W. 149°-256°, R.-042°, G.-149°.
29604 *D 7433.2*	--NE. corner.	26° 30.6′ N 50° 12.4′ E	**Fl.W.** period 4s			Green and white beacon.	
29608 *D 7433.4*	-E. mole, NW. corner.	26° 30.2′ N 50° 12.5′ E	**Fl.(4)W.R.G.** period 10s			Green and white beacon.	W. 157°-260°, R.-072°, G.-157°.
29612 *D 7433.5*	--NE. corner.	26° 30.1′ N 50° 12.7′ E	**Fl.(2)G.** period 10s			Green and white beacon.	
29616 *D 7434.4*	-Small craft harbor pier.	26° 29.0′ N 50° 12.0′ E	**Fl.(3)W.** period 10s			Green and white beacon.	
29616.4 *D 7434.25*	--No 4.	26° 29.3′ N 50° 12.7′ E	**Fl.(2)R.** period 4s			Red beacon.	
29616.6 *D 7434.3*	--No 6.	26° 29.0′ N 50° 12.7′ E	**Fl.(2)R.** period 10s			Red beacon.	
29620	*Five Fathom Patch Lighted Buoy.*	26° 31.0′ N 51° 18.0′ E	**Fl.(2)W.** period 12s			ISOLATED DANGER BRB, pillar, topmark.	
29636 *D 7398*	Fasht ad-Dibal.	26° 17.4′ N 50° 57.5′ E	**Q.W.**	12 **4**	7	Metal pedestal, concrete base.	
29640 *D 7398.4*	Fasht ad-Dibal, E. side.	26° 16.7′ N 50° 58.7′ E	**Fl.(2)W.** period 10s	13 **4**	7	Metal pedestal, concrete base.	
29642 *D 7399.5*	Jaww, SE.	25° 58.5′ N 50° 37.7′ E	**F.R.**			Red and white beacon.	
29644 *D 7413*	Fasht Al Jarim.	26° 32.6′ N 50° 32.4′ E	**Fl.Y.** period 5s		7	White beacon.	
29648 *D 7414.7*	-Khor Fasht, reef, NE. end.	26° 21.3′ N 50° 27.1′ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	12 **4**	7	Metal pedestal, concrete base.	
29649 *D 7415*	-Azizayah Channel.	26° 16.6′ N 50° 21.0′ E	**Fl.G.** period 5s			White beacon.	
29650 *D 7415.2*	--Range, front.	26° 16.3′ N 50° 20.5′ E	**Q.W.**			Red and white beacon.	
29650.5 *D 7415.21*	---Rear, 250 meters 248° from front.	26° 16.2′ N 50° 20.4′ E	**Fl.W.** period 3s	16 **5**		Red and white beacon.	
29656 *D 7417*	Saudi Arabia-Bahrain Causeway.	26° 13.2′ N 50° 13.5′ E	**F.G.**	23 **7**	5		R. lights on piles east side of spans, G. lights on piles west side of spans, visible 20° either side of a line at right angles to the bridge span. The piles are floodlit from above.
29660 *D 7417.2*	-Bridge No 3, W. side.	26° 12.1′ N 50° 17.1′ E	**Oc.G.** period 5s	16 **5**	5		Shown from either side. E. side marked by Oc.R. 5s on either side.
29664 *D 7417.3*	-Bridge No 4, W. side.	26° 10.9′ N 50° 21.0′ E	**F.G.**	23 **7**	5		Shown from either side. E. side marked by F.R. on either side.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			PERSIAN GULF				
29668 *D 7417.4*	-Bridge No 5, W. side.	26° 10.1′ N 50° 25.7′ E	**F.G.**	23 **7**	5		Shown from either side. E. side marked by F.R. on either side.
29672 *D 7417.5*	-Channel beacon, No 1.	26° 12.9′ N 50° 17.5′ E	**Fl.G.** period 4s	16 **5**	5	Beacon.	**Radar reflector.**
29676 *D 7417.6*	-Channel beacon, No 2.	26° 12.9′ N 50° 17.6′ E	**Fl.R.** period 4s	16 **5**	5	Beacon.	**Radar reflector.**
29680 *D 7417.7*	-Channel beacon, No 3.	26° 12.5′ N 50° 17.3′ E	**Fl.G.** period 8s	16 **5**	5	Beacon.	**Radar reflector.**
29684 *D 7417.8*	-Channel beacon, No 4.	26° 12.5′ N 50° 17.4′ E	**Fl.R.** period 8s	16 **5**	5	Beacon.	**Radar reflector.**
29688 *D 7417.9*	-Channel beacon, No 5.	26° 11.7′ N 50° 17.0′ E	**Fl.G.** period 8s	16 **5**	5	Beacon.	**Radar reflector.**
29692 *D 7418*	-Channel beacon, No 6.	26° 11.7′ N 50° 17.1′ E	**Fl.R.** period 8s	16 **5**	5	Beacon.	**Radar reflector.**
29696 *D 7418.2*	-Channel beacon, No 7.	26° 11.3′ N 50° 16.9′ E	**Fl.G.** period 4s	16 **5**	5	Beacon.	**Radar reflector.**
29700 *D 7418.3*	-Channel beacon, No 8.	26° 11.3′ N 50° 17.0′ E	**Fl.R.** period 4s	16 **5**	5	Beacon.	**Radar reflector.**
29703.5 *D 7419.2*	-Beacon No 21.	21° 51.8′ N 50° 08.8′ E	**Fl.G.** period 5s				
29704 *D 7399*	Katah ad Jaradeh.	26° 10.5′ N 50° 54.0′ E	**Fl.W.** period 5s	10 **3**	8	Beacon.	
	MINA SALMAN:						
29707 *D 7400.9*	-Kawkab Umm Al Sawali, water tower.	26° 13.3′ N 50° 40.9′ E	**F.R.**	148 **45**	10		
29709 *D 7400.95*	-Khalifa Port, breakwater.	26° 10.7′ N 50° 42.8′ E	**F.G.**	20 **6**	5		
29710	*-Sitrah Buoy.*	26° 10.4′ N 50° 43.3′ E	**Q.(6)+L.Fl.W.** period 15s			S. CARDINAL YB, pillar, topmark.	**AIS** (MMSI No 994081017).
	-RACON		**X(– • • –)**				(3 & 10cm).
29712 *D 7402*	S. Shoal beacon.	26° 09.5′ N 50° 41.8′ E	**Fl.(2)R.** period 4s	20 **6**		Framework beacon.	
29720 *D 7402.5*	--S. Range beacon.	26° 09.3′ N 50° 41.0′ E	**Fl.R.** period 4s fl. 0.2s, ec. 3.8s	20 **6**		Framework beacon; 23.	
29724 *D 7401*	-G.I.I.C. Range, front.	26° 11.6′ N 50° 41.0′ E	**Q.W.**	26 **8**	6	Framework tower, black triangular daymark point up, white stripes.	Visible 327°48′-337°48′.
29728 *D 7401.1*	--Rear, 190 meters 332°52′ from front.	26° 11.7′ N 50° 40.9′ E	**Q.(2)W.** period 2s	49 **15**	6	Framework tower, white triangular daymark point up, double triangular daymark points together.	Visible 327°48′-337°48′.
29732 *D 7409*	-Jetty, S. head.	26° 07.3′ N 50° 38.1′ E	**F.G.**	13 **4**	1	Post.	
29736 *D 7409.2*	-S. breakwater, head.	26° 07.2′ N 50° 38.1′ E	**2 F.R.** (vert.)				
29737 *D 7409.5*	-Bahrain Yacht Club.	26° 06.8′ N 50° 38.0′ E	**Q.W.**	33 **10**	5		Q.G., Fl.G. 2s, Q.R. and Fl.R. 2s lights mark entrance.
29738 *D 7400*	-Hayyan.	26° 03.2′ N 50° 39.0′ E	**Fl.W.** period 3s	10 **3**	7	Red beacon.	
29738.5 *D 7399.3*	-Umm Jalid.	26° 01.1′ N 50° 46.4′ E	**Fl.W.** period 5s	16 **5**		Red beacon.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			PERSIAN GULF				
29740 *D 7404*	-Range, front.	26° 11.0′ N 50° 39.4′ E	**Q.W.**	16 **5**		Metal tripod, aluminum triangular daymark point up; 13.	
29744 *D 7404.1*	--Rear, 370 meters 323°43′ from front.	26° 11.2′ N 50° 39.3′ E	**I.Q.W.** period 8s fl. 3s, ec. 5s	29 **9**		Metal tripod, triangular daymark point up, double triangular daymark points together; 26.	
29746 *D 7404.3*	-Diwan Beacon.	26° 10.8′ N 50° 39.7′ E	**Fl.G.** period 2.5s	26 **8**		Green pile.	
29748 *D 7404.5*	-Range, front.	26° 11.7′ N 50° 39.5′ E	**Q.W.**	16 **5**		Metal tripod, aluminum triangular daymark point up; 13.	
29752 *D 7404.51*	--Rear, 835 meters 356°45′ from front.	26° 12.2′ N 50° 39.5′ E	**Q.(4)W.** period 8s	30 **9**		Metal tripod, aluminum triangular daymark point down between two red triangular daymarks point up; 26.	
29754 *D 7404.8*	-Triad.	26° 11.2′ N 50° 39.4′ E	**Q.R.**	23 **7**	7	Red pile.	
29756 *D 7405*	-Range, front.	26° 11.3′ N 50° 39.7′ E	**Q.W.**	15 **5**		Dolphin, white triangular daymark point up.	
29760 *D 7405.1*	--Rear, 106°53′ from front.	26° 11.2′ N 50° 39.9′ E	**Q.(4)W.** period 8s	30 **9**		Post, white triangular daymark point down.	
29764 *D 7406*	---287°03′.	26° 12.1′ N 50° 36.6′ E	**Dir.W.R.G.**	137 **42**		Silo.	V.Q.G. 283°54′-286°42′, V.Q.W.-287°30′, V.Q.R.-290°12′.
29768 *D 7407*	Al Manamah, marina.	26° 14.3′ N 50° 36.2′ E	**Fl.W.** period 2s			Beacon.	Fl.R. 3s and Fl.G. 6s on breakwater 0.2 mile S.
29769 *D 7407.6*	Al Muharraq, boat harbor.	26° 14.2′ N 50° 36.9′ E	**Fl.G.** period 3s	13 **4**		Green and white post.	
29769.5 *D 7407.7*	--W. side of entrance.	26° 14.3′ N 50° 36.7′ E	**Fl.R.** period 10s			Red and white post, square daymark.	
29776 *D 7410*	-Ra's Zurawin.	26° 15.3′ N 50° 33.5′ E	**Fl.R.** period 2s	20 **6**	4	Metal structure, white base.	
29792 *D 7395*	**Ra's Rakan.**	26° 11.8′ N 50° 13.2′ E	**Fl.W.** period 5s fl. 1s, ec. 4s	45 **14**	**18**	Metal framework tower, piles; 45.	
29794 *D 7394.5*	Ra's Umm Hasah.	26° 06.1′ N 51° 21.5′ E	**V.Q.(3)W.** period 5s	39 **12**	10	White beacon.	
29796 *D 7393.881*	Ras Laffan, N. breakwater, head, RB1.	25° 55.6′ N 51° 39.5′ E	**Q.G.**	52 **16**	6	Beacon; 30.	
29796.03 *D 7393.892*	--Spur, SB2.	25° 55.8′ N 51° 38.4′ E	**Fl.W.** period 5s fl. 1s, ec. 4s	39 **12**	6	Beacon; 23.	
29796.05 *D 7393.885*	--Elbow, RB5.	25° 56.5′ N 51° 37.6′ E	**Fl.W.** period 2s	52 **16**	6	Beacon; 30.	Visible 090°-300°.
29796.1 *D 7393.882*	-Detched breakwater, N. head, RB2.	25° 55.3′ N 51° 39.2′ E	**Fl.R.** period 2s	49 **15**	6	Beacon; 30.	
29796.15 *D 7393.883*	--S. head, RB3.	25° 54.8′ N 51° 39.3′ E	**Fl.G.** period 3s	49 **15**	6	Beacon; 30.	
29796.17 *D 7393.891*	-S. breakwater, head, SB1.	25° 54.6′ N 51° 39.2′ E	**Fl.R.** period 3s fl. 0.4s, ec. 2.6s	43 **13**	6	Beacon; 23.	
29796.2 *D 7393.884*	--Spur, RB4.	25° 54.5′ N 51° 39.5′ E	**Fl.R.** period 2s	46 **14**	6	Beacon; 30.	
29796.25 *D 7393.886*	--Elbow, RB6.	25° 54.0′ N 51° 39.6′ E	**Fl.W.** period 2s	52 **16**	6	Beacon; 30.	
29796.3 *D 7393.887*	--RB7.	25° 53.3′ N 51° 38.5′ E	**Fl.W.** period 2s	49 **15**	6	Beacon; 30.	Visible 240°-060°.

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			PERSIAN GULF				
29796.35 *D 7393.975*	-Doha Dock, head, JB5.	25° 55.8′ N 51° 37.2′ E	**Q.G.**	39 **12**	3	Beacon; 16.	
29796.4 *D 7393.893*	-Wakra Dock, Liquid Products Berth, breakwater, head, SB3.	25° 55.0′ N 51° 38.2′ E	**Oc.G.** period 3s lt. 2s, ec. 1s	43 **13**	6	Beacon; 23.	
29796.45 *D 7393.894*	---Elbow, SB4.	25° 55.4′ N 51° 38.0′ E	**Oc.W.** period 3s lt. 2s, ec. 1s	43 **13**	6	Beacon; 23.	
29796.46 *D 7393.895*	---SB5.	25° 55.5′ N 51° 37.5′ E	**Iso.R.** period 3s	33 **10**	6	Beacon; 23.	
29796.47 *D 7393.898*	---Spur, SB8.	25° 54.9′ N 51° 37.0′ E	**Oc.G.** period 5s lt. 3s, ec. 2s	33 **10**	6	Beacon; 23.	
29796.48 *D 7393.9005*	--Container Terminal, breakwater, spur, SB9.	25° 54.6′ N 51° 37.1′ E	**Oc.R.** period 5s lt. 3s, ec. 2s	33 **10**	6	Beacon; 23.	Q.G. 3M lights mark berth 1200 meters E. Q.R. 3M lights mark Rayyan Dock 1870 meters SE.
29796.5 *D 7393.9*	--Range, front, FL2.	25° 55.0′ N 51° 36.9′ E	**V.Q.W.**		**15**		Reserve light V.Q.W.
29796.51 *D 7393.9001*	---Rear, 279° from front, RL2.	25° 55.1′ N 51° 36.5′ E	**V.Q.W.**		**15**		Reserve light V.Q.W.
29796.6 *D 7393.95*	-Al-Khor Dock, S. breakwater, SB6.	25° 55.5′ N 51° 37.1′ E	**Fl.R.** period 5s fl. 0.3s, ec. 4.7s	43 **13**	6	Beacon; 23.	Fl.R. 2s lights mark 3 Liquid Petroleum Berths close W. 2 Q.G. lights mark Cargo Berths 106 and 107 1500 meters W. 3 Q.G. lights mark Service Berths Pier 2300 meters W. Q.G. light mark Service Berth Jetty 2050 meters W.
29796.65 *D 7393.97*	--N. breakwater, SB7.	25° 55.8′ N 51° 37.2′ E	**Fl.G.** period 5s fl. 0.3s, ec. 4.7s	36 **11**	6	Beacon; 23.	Q.Y. marks LNG Berth No. 1 1950 meters W. Q.G. marks SE end of Cargo Berth 1480 meters SW. Q.R. marks NW end of Cargo Berth 1720 meters W.
29796.7 *D 7393.92*	--Range, front, FLE.	25° 55.8′ N 51° 36.0′ E	**Q.R.**	36 **11**	8	White beacon, orange triangular daymark point up.	
29796.71 *D 7393.93*	---Rear, 900 meters 278° from front, RLE.	25° 55.8′ N 51° 35.5′ E	**Q.R.**	72 **22**	8	White beacon, orange triangular daymark point down.	R. lights on flare towers 60 meters 0.6 mile NE., 72 meters 0.9 mile SW., 136 meters 4 miles SW. and 169 meters 0.3 miles NE.
29796.8 *D 7393.91*	--Range, front, FL1.	25° 55.9′ N 51° 35.8′ E	**V.Q.W.**		**15**		Reserve light V.Q.W.
29796.81 *D 7393.911*	---Rear, 875 meters 279° from front, RL1.	25° 55.9′ N 51° 35.3′ E	**V.Q.W.**		**15**		Reserve light V.Q.W.
29800 *D 7383*	Sharaiwah.	25° 02.9′ N 52° 13.3′ E	**Fl.Y.** period 10s			Beacon; 13.	
29804 *D 7384*	Al Ashat.	24° 44.6′ N 51° 35.6′ E	**Fl.W.** period 4s			Beacon; 13.	
29805 *D 7384.3*	Al Qaffay, E.	24° 34.4′ N 51° 43.9′ E	**Fl.W.** period 9s				
29805.1 *D 7384.4*	-Breakwater, E.	24° 34.6′ N 51° 43.8′ E	**Fl.R.**				
29805.2 *D 7384.5*	--W.	24° 34.6′ N 51° 43.7′ E	**Fl.G.** period 9s				
29806 *D 7384.05*	Jazirat Huwaysat, N.	24° 24.2′ N 51° 30.4′ E	**Q.W.**	39 **12**	5	Beacon.	

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			PERSIAN GULF				
29806.1 *D 7384.1*	-S.	24° 23.5′ N 51° 30.2′ E	**Q.W.**	39 **12**	5	Beacon.	
29808	*Qatar Buoy.*	25° 40.1′ N 51° 56.5′ E	**L.Fl.W.** period 10s			SAFE WATER RW, pillar, topmark.	**Radar reflector.**
	RACON		**Q(– – • –)**		**16**		(3 & 10cm).
29812 *D 7393*	**Ra's al Matbakh.**	25° 40.9′ N 51° 34.7′ E	**Fl.W.R.** period 5s fl. 0.5s, ec. 4.5s	55 **17**	W. **21** R. **18**	Tripod; 36.	R. 275°-290° over Fasht Ard an Nawt, W.-275°.
29814 *D 7384.65*	**Yasat Ali.**	24° 22.4′ N 52° 00.9′ E	**Fl.W.R.** period 10s fl. 0.2s, ec. 9.8s	98 **30**	W. **20** R. **16**	Yellow tower, multi piled base, jetty; 105.	W.185°-350°, R.-185°. Q.R. and Q.G. lights are shown on jetty at the base of Yasat Ali. **AIS** (MMSI No 994701040). Reserve light range 12/10.
	Range light.		**Fl.G.** period 10s fl. 1s, ec. 9s	98 **30**	14		Visible 225°-231°.
29816 *D 7378*	**Halul.**	25° 40.4′ N 52° 24.6′ E	**Fl.W.R.** period 12s	220 **67**	W. **19** R. 9	Black lantern, white base; 16.	W. 030°-300°, R.-030° over pipeline area.
29820 *D 7378.2*	-AVIATION LIGHT.	25° 40.1′ N 52° 24.5′ E	**Al.Fl.W.G.**				
29822 *D 9206.9*	Platform DP1.	25° 56.5′ N 52° 41.5′ E	**4 Mo.(U)W.** period 15s		10		
29836 *D 7367*	*Zaqqum Buoy.*	25° 06.6′ N 53° 25.1′ E	**L.Fl.W.** period 10s			SAFE WATER RW, pillar, topmark.	**Radar reflector.**
	RACON		**Z(– – • •)**		**16**		(3 & 10cm).
29843 *D 7375.6*	Das Island, W. end, off shore.	25° 08.5′ N 52° 48.5′ E	**Mo.(U)W.** period 15s	39 **12**	10	Well head tower.	**Horn:** Mo.(U) ev. 30s.
29848.2 *D 7375.7*	-Loading Platform No 2, N. end.	25° 08.8′ N 52° 53.3′ E	**2 F.G.** (vert.)	56 **17**			
29848.4 *D 7375.8*	--S. end.	25° 08.5′ N 52° 53.4′ E	**2 F.G.** (vert.)	56 **17**			
29849.2 *D 7376.2*	--S. end.	25° 09.4′ N 52° 53.2′ E	**2 F.G.** (vert.)	62 **19**	2		F.R. marks N. and S. end of pier. 2 F.R. (vert.) marks N. and S. end of sulphur berth 0.5 mile S.
29849.4 *D 7376.3*	--N. end.	25° 09.5′ N 52° 53.2′ E	**2 F.G.** (vert.)	52 **16**	2		
29850 *D 7376.6*	-Oil Loading Terminal, SBM.	25° 09.0′ N 52° 54.1′ E	**Fl.R.** period 5s fl. 0.5s, ec. 4.5s		4	Green, red, blue and yellow quarters, black top.	**Radar reflector.**
29868 *D 7366.6*	Qarnayn Island.	24° 56.3′ N 52° 50.9′ E	**Fl.W.** period 5s	194 **59**	8		
29872 *D 7366*	**Zirkuh Island.**	24° 53.1′ N 53° 04.2′ E	**Fl.W.** period 10s fl. 1s, ec. 9s	653 **199**	**18**	NE corner of radio mast.	Visible 025°-000°.
	RACON		**B(– • • •)**		**16**		(3 & 10cm).
29876 *D 7366.3*	-Zarqa Sea intake.	24° 53.0′ N 53° 05.4′ E	**V.Q.(3)W.** period 5s	30 **9**	9	E. CARDINAL BYB, beacon, topmark.	
29880 *D 7366.2*	-Jetty, head.	24° 52.4′ N 53° 05.6′ E	**F.Fl.G.** period 10s fl. 1s, ec. 9s	33 **10**	F. 7 Fl. 9		Visible 150°-070°.
29881 *D 7366.4*	-E. of small craft anchorage.	24° 51.2′ N 53° 07.4′ E	**Fl.(2+1)W.** period 15s		10	Platform.	Effuent water disposal platform. **Horn:** 2 bl. ev. 18s.

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			PERSIAN GULF				
	DOHA:						
29892	*-LIGHTSHIP.*	25° 16.4′ N 51° 45.1′ E	**Mo.(D)W.** period 12s	19 **6**	8	Red hull and tower.	Inner and outer channel marked by lit buoys and beacons.
	-RACON		**D(– • •)** period 48s		**16**		(3 & 10cm).
29893 *D 7389.2*	-Island S. of outer channel, NW. point.	25° 17.9′ N 51° 38.5′ E	**Q.R.**	23 **7**		Beacon.	
29893.5 *D 7389.4*	--SE. point.	25° 17.6′ N 51° 38.7′ E	**Q.R.**	23 **7**		Beacon.	
29899 *D 7390.8*	-Container Terminal.	25° 18.4′ N 51° 33.2′ E	**F.W.R.G.**	33 **10**	W. **19** R. **16** G. **16**	Red metal pole, white bands; 20.	G. 330°-332°30′, W.-337°30′, R. 340°. Shown 24 hours. Reserve by day 3/1M.
29900 *D 7390.9*	-Jetty, N. outer corner.	25° 18.3′ N 51° 33.1′ E	**Fl.(2)R.** period 6s				
29904 *D 7390.95*	--S. outer corner.	25° 17.7′ N 51° 33.4′ E	**Fl.G.** period 3s				Fl.(2)R. 5s and Fl.G. 3s mark Naval Harbor breakwater heads 1.15 miles 075°. Fl.G. 3s on beacon 0.9 mile E.
29905 *D 7391.6*	-Diplomatic Area.	25° 19.6′ N 51° 32.9′ E	**Q.(3)G.** period 5s			Beacon.	Beacon Fl.R. 3s 0.3 mile W.
29912 *D 7382*	**Halat Umm Al Khayfan.**	25° 09.1′ N 51° 57.6′ E	**Fl.(2)W.** period 20s	43 **13**	**18**	White fiberglass tower, red stripes.	
	UMM SA'ID:						
29914	*-Mishut Lighted Buoy.*	25° 16.0′ N 51° 46.8′ E	**Q.(9)W.** period 15s			W. CARDINAL YBY, pillar, topmark.	
29915	*-Wakrah Lighted Buoy.*	25° 09.3′ N 51° 41.9′ E	**V.Q.(9)W.** period 10s			W. CARDINAL YBY, pillar, topmark.	
29916	*-Hul Lighted Buoy.*	25° 02.9′ N 51° 41.9′ E	**Q.(9)W.** period 15s			W. CARDINAL YBY, pillar, topmark.	The channel east of Fajht Al Arrif Shoals marked by lighted buoys.
	-RACON		**T(–)**		10		(3 & 10cm).
29918 *D 7384.9*	-Fasht Al Arif.	24° 55.0′ N 51° 41.6′ E	**Q.Y.**		2	Beacon.	
29920	*-SE. Arif Lighted Buoy.*	24° 54.0′ N 51° 43.0′ E	**V.Q.(3)W.** period 5s			E. CARDINAL BYB, pillar, topmark.	
	-RACON		**B(– • • •)** period 48s				(3cm).
29924	*-S. Arif Lighted Buoy.*	24° 51.0′ N 51° 41.0′ E	**V.Q.(6)+L.Fl.W.** period 10s			S. CARDINAL YB, pillar, topmark.	The channel SW. of Fajht Al Arrif Shoals is marked by lighted buoys.
29928	*-Turning Lighted Buoy.*	24° 54.8′ N 51° 39.2′ E	**V.Q.W.**			N. CARDINAL BY, pillar, topmark.	
29930 *D 7387.7*	Umm Said, boat harbor, W. side.	24° 56.5′ N 51° 35.0′ E	**Fl.W.** period 3s				2 meters apart.
			F.R.				
29930.2 *D 7387.8*	-E. side.	24° 56.4′ N 51° 35.0′ E	**F.R.**				
29932 *D 7385*	-QAFCO, jetty, head.	24° 55.0′ N 51° 34.5′ E	**Oc.R.** period 5.5s	13 **4**			

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			PERSIAN GULF				
29934 *D 7385.2*	--S.	24° 54.7′ N 51° 34.4′ E	**Oc.R.** period 5.5s	13 **4**			
29944 *D 7385.4*	-LPG, jetty.	24° 54.1′ N 51° 33.4′ E	**F.R.**			Red diamond daymark, white stripes.	Mo.(U)W. marks end of pipeline 0.9 mile SSE. F.W. on dolphin 560 meters E. F.R. on dolphin 850 meters NE.
29945 *D 7385.6*	-Gas Liquids Plant.	24° 54.3′ N 51° 33.6′ E	**F.G.**			Beacon, round daymark.	
29948	*-North Berth Buoy.*	24° 53.7′ N 51° 35.0′ E	**Fl.W.** period 3s		5	Orange single point mooring buoy.	
29952 *D 7368*	*Creagh Shoal Buoy.*	24° 43.1′ N 52° 43.0′ E	**Q.(9)W.** period 15s			W. CARDINAL YBY, pillar, topmark.	
	RACON		**C(– • – •)**		**16**		(3 & 10cm).
29953 *D 7368.2*	-Jazirat Arzanah, jetty, head.	24° 46.6′ N 52° 34.0′ E	**Iso.Y.** period 3s				L.Fl.W. 5s light also marks jetty.
29953.1 *D 7368.4*	--Harbor Entrance.	24° 46.1′ N 52° 33.9′ E	**Iso.W.** period 3s				
29956 *D 7369*	*Dalma Light Buoy.*	24° 32.4′ N 52° 27.7′ E	**Q.(9)W.** period 15s			W. CARDINAL YBY, pillar, topmark.	
	RACON		**N(– •)**		**16**		(3 & 10cm).
29960	*Gasha Light Buoy.*	24° 25.8′ N 52° 34.5′ E	**Q.(9)W.** period 15s			W. CARDINAL YBY, pillar, topmark.	
29964 *D 7370*	Price Shoal.	24° 17.5′ N 52° 42.2′ E	**Fl.W.** period 5s	39 **12**	14	Red metal pile, white lantern.	
	RACON		**T(–)**		**20**		(3 & 10cm).
29968 *D 7370.4*	South Alaq.	24° 13.9′ N 52° 41.6′ E	**Fl.W.** period 5s	22 **7**	8	White metal framework tower, red bands.	
29991 *D 7371.35*	*Az Zannah, Berth 2.*	24° 12.8′ N 52° 40.4′ E	**Mo.(U)W.** period 15s			Yellow SBM.	**Horn:** Mo.(U) ev. 30s.
29994 *D 7371.4*	*-SBM.*	24° 12.1′ N 52° 41.3′ E	**Mo.(U)W.** period 15s		3		**Horn:** Mo.(U) ev. 30s.
30004 *D 7371.7*	Az Zannah, jetty.	24° 11.4′ N 52° 37.8′ E	**2 V.Q.R.** (vert.)		3		2 meters apart.
30006 *D 7372*	Ar Ruways, Liquid Products, Jetty, NW. head.	24° 10.6′ N 52° 42.6′ E	**2 F.G.** (vert.)				2 F.G. (vert.) marks SE. end.
30006.4 *D 7372.2*	-Coastal Tanker, jetty, head.	24° 09.7′ N 52° 42.7′ E	**2 F.R.** (vert.)				
30006.8 *D 7372.4*	-LNG, jetty, NW. head.	24° 10.0′ N 52° 43.3′ E	**2 F.G.** (vert.)				2 F.G. (vert.) marks SE. end.
30008	*Mubarraz Approach Lighted Buoy.*	24° 56.9′ N 53° 18.4′ E	**Fl.R.** period 5s			Red buoy.	Channel to oil terminal marked by lighted buoys.
30013 *D 7365.2*	-Fishing Harbor, N. breakwater, head.	25° 13.2′ N 54° 14.4′ E	**Fl.G.** period 5s fl. 1s, ec. 4s	23 **7**	5	Metal post; 7.	
30013.5 *D 7365.3*	--S. breakwater, head.	25° 13.2′ N 54° 14.4′ E	**Fl.R.** period 5s fl. 1s, ec. 4s	23 **7**	5	Metal post; 7.	
30015 *D 7364.8*	Crescent Island.	25° 18.7′ N 54° 39.6′ E	**Fl.W.** period 10s	36 **11**	11	Metal post.	Island marked by 6 FL Y 3M lights.
30020 *D 7363*	Abu Dhabi, Mina Zayid, W. breakwater, head.	24° 32.4′ N 54° 23.0′ E	**Iso.Y.** period 6s			Black column, white bands.	
30021 *D 7363.08*	--Silo.	24° 32.2′ N 54° 23.0′ E	**Iso.W.** period 6s	230 **70**	**17**		

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			PERSIAN GULF				
30024 *D 7363.2*	-Sadiyat, E. breakwater, head.	24° 32.4′ N 54° 23.6′ E	**Fl.Y.** period 4s				
30028 *D 7363.3*	--SW. breakwater, head.	24° 31.9′ N 54° 23.4′ E	**Oc.W.** period 7s lt. 4.5s, ec. 2.5s				Fl.W. 4s marks SE. corner. Fl.Y. 4s on each of 4 overhead power cable pylons 1.2 miles SE.
30032 *D 7363.5*	-NW. breakwater, elbow.	24° 31.4′ N 54° 21.8′ E	**Q.W.**	23 **7**			
30036 *D 7363.6*	--SW. corner.	24° 31.0′ N 54° 21.6′ E	**Oc.R.** period 16s	23 **7**			
30037 *D 7363.7*	-Corniche Island, Offshore breakwater,N. head.	24° 31.2′ N 54° 21.5′ E	**Oc.G.** period 16s	20 **6**			Channel to Dhow Harbor marked by lighted beacons.
30038 *D 7363.75*	--S. end, Marina breakwater, head.	24° 28.7′ N 54° 19.9′ E	**Q.W.**				
30040 *D 7364*	-Khor Bateen, W. breakwater, head.	24° 28.6′ N 54° 18.0′ E	**Fl.W.** period 3s			Beacon.	
30044 *D 7364.2*	--E. breakwater, head.	24° 28.1′ N 54° 18.2′ E	**Fl.W.** period 3s			Beacon.	
30045 *D 7363.74*	-Batin, Khawr Al. Bridge.	24° 25.5′ N 54° 22.0′ E	**F.R.**				
30046 *D 7363.745*	--Khawr Al. Bridge.	24° 25.4′ N 54° 21.9′ E	**F.G.**				
30052 *D 7360.4*	W. training wall, head.	25° 01.2′ N 55° 02.3′ E	**Fl.G.** period 5s fl. 0.5s, ec. 4.5s	46 **14**	8	Tower.	
30056 *D 7360.5*	E. training wall, head.	25° 01.2′ N 55° 02.6′ E	**Fl.R.** period 5s fl. 0.5s, ec. 4.5s	46 **14**	8	Tower.	
30060 *D 7360.8*	Hassah Marina, breakwater.	24° 59.8′ N 55° 01.9′ E	**Al.W.R.** period 2s	33 **10**	8	White tower, red band.	
30062 *D 7361*	Jabal Ali Hotel Marina.	24° 59.5′ N 55° 01.6′ E	**Al.W.R.** period 2s		8		
30064 *D 7360*	**Mina Jebal Ali,** AVIATION LIGHT.	25° 01.1′ N 55° 04.4′ E	**Oc.R.** period 3s	102 **31**	**20**	Flare stack.	
30068 *D 7360.2*	-AVIATION LIGHT.	25° 01.2′ N 55° 04.5′ E	**Oc.R.** period 3s	190 **58**	**20**	Flare stack.	
30070 *D 7360.22*	-AVIATION LIGHT.	25° 01.2′ N 55° 04.5′ E	**Oc.R.** period 3s	190 **58**	**20**	Flare stack.	
30071 *D 7360.6*	-Aluminum Plant, breakwater, elbow.	25° 01.9′ N 55° 04.9′ E	**Fl.(2)G.** period 10s fl. 1s, ec. 1s fl. 1s, ec. 7s	20 **6**	5	Green column, white bands.	
30071.1 *D 7360.65*	--Breakwater, head.	25° 01.9′ N 55° 05.0′ E	**Fl.Y.** period 5s fl. 1s, ec. 4s	20 **6**	7	SPECIAL Y, column, "X" topmark.	
30071.7 *D 7358.21*	-Dubai Marina.	25° 04.4′ N 55° 07.4′ E	**Fl.(5)G.** period 20s	23 **7**	5	White metal post; 7.	Iso.G. 7m 2M and Iso.R. 7m 2M mark breakwaters.
30072 *D 7358*	Mina Sahayah Fishing Harbor.	25° 05.5′ N 55° 08.5′ E	**Fl.(3)W.** period 10s		2		
30074 *D 7357.75*	Chicago Beach, main breakwater.	25° 08.7′ N 55° 11.3′ E	**Oc.G.**		5		Fl.R. marks lee breakwater. W. and R. lights mark hotels.
30076 *D 7357.4*	Maz Gam Fishing Harbor, breakwater.	25° 09.3′ N 55° 11.8′ E	**Fl.(3)G.** period 20s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 15s			STARBOARD (A) G, beacon, topmark.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			PERSIAN GULF				
30080 *D 7357.3*	Umm Suqaym Fishing Harbor, breakwater.	25° 10.6′ N 55° 12.9′ E	**Fl.G.** period 5s		4		
30081 *D 7357.2*	Al Rais.	25° 12.3′ N 55° 14.2′ E	**Q.G.**			STARBOARD (A) G, beacon, topmark.	
30081.5 *D 7356.8*	Detached breakwater, N. head.	25° 13.7′ N 55° 15.2′ E	**Fl.(5)G.** period 20s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 11s			STARBOARD (A) G, beacon, topmark.	Q.G. marks S. head.
30082 *D 7356.7*	T-head breakwater, N. head.	25° 13.8′ N 55° 15.4′ E	**Fl.(6)G.** period 20s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 1s fl. 1s, ec. 9s			STARBOARD (A) G, beacon, topmark.	Q.G. marks S. head.
30082.5 *D 7356.6*	Beach Club, breakwater.	25° 14.0′ N 55° 15.5′ E	**Q.G.**			STARBOARD (A) G, beacon, topmark.	
30084 *D 7357*	Jumerah Fishing Harbor, breakwater.	25° 12.8′ N 55° 14.6′ E	**Fl.G.** period 10s			STARBOARD (A) G, beacon, topmark.	Fl.G. 10s marks spur.
30088 *D 7353*	Ajman, N. training wall, head.	25° 25.8′ N 55° 26.6′ E	**Fl.R.** period 5s	13 **4**	3	Red framework tower.	
30092 *D 7353.2*	-S. training wall, head.	25° 25.8′ N 55° 26.5′ E	**Fl.W.** period 2s	13 **4**	5	Green framework tower.	
30094 *D 7353.5*	Al Hayrah, N. breakwater, head.	25° 23.5′ N 55° 24.7′ E	**Fl.G.** period 5s fl. 1.5s, ec. 3.5s	16 **5**		Framework tower; 7.	
30094.5 *D 7353.6*	-S. breakwater, head.	25° 23.4′ N 55° 24.7′ E	**Fl.R.** period 5s fl. 1.5s, ec. 3.5s	16 **5**		Framework tower; 7.	
	DUBAYY:						
30098	*-Approach buoy.*	25° 18.5′ N 55° 10.0′ E	**L.Fl.W.** period 10s			SAFE WATER RW, pillar, topmark.	
	-RACON		**T(–)**		11		(3 & 10cm).
30100 *D 7355.6*	-Mina Rashid, Dubai Maritime City, E. wall.	25° 16.5′ N 55° 16.0′ E	**Q.W.**	16 **5**	5	Orange rectangular daymark, green triangular daymark point up; 16.	
30108 *D 7355.7*	-Main breakwater, head.	25° 16.9′ N 55° 16.0′ E	**Fl.G.** period 5s	43 **13**	5	White round structure, black bands.	4 F.Y. 8m 3M lights mark breakwater.
30110 *D 7355.8*	-E. breakwater, head.	25° 16.8′ N 55° 16.2′ E	**V.Q.R.**	26 **8**	3	Metal post.	4 F.Y. 8m 3M mark E. breakwater.
30115 *D 7355.77*	-Dubai Dry Docks, W. breakwater, head.	25° 16.2′ N 55° 15.0′ E	**Fl.G.** period 5s		3	Green beacon.	8 F.Y. marks W. breakwater.
30117 *D 7356.512*	--Finger Quay, outer dolphin.	25° 15.3′ N 55° 16.1′ E	**F.R.**	20 **6**	3	Dolphin.	F.R. mark dolphins off head. Numerous F.R. and F.G. lights mark dry docks and associated dolphins.
30120 *D 7355.2*	-Khaver Dubayy, outer channel, W. side.	25° 16.9′ N 55° 17.5′ E	**Fl.W.** period 3s	16 **5**	10		
30121 *D 7355.3*	--Entrance, W. side.	25° 16.5′ N 55° 17.6′ E	**F.G.**	10 **3**	3	Dolphin; 10.	Numerous lights exist along the banks of the creek.
30121.5 *D 7355.32*	---E. side.	25° 16.5′ N 55° 17.7′ E	**Fl.R.** period 5s	10 **3**	3	Dolphin; 10.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			PERSIAN GULF				
30124 *D 7355.4*	---Inner harbor.	25° 15.9′ N 55° 17.6′ E	**F.W.R.** (vert.)				Occasional.
	ASH SHARIQAH:						
30132 *D 7354*	-Main breakwater, head.	25° 22.2′ N 55° 22.1′ E	**Fl.W.** period 3s	49 **15**	7	Black and white metal framework tower; 39.	
30132.5 *D 7354.2*	-Lee breakwater, head.	25° 22.0′ N 55° 22.2′ E	**Fl.R.** period 3s	49 **15**	7	Red and white metal framework tower; 39.	F.R. on chimneys S. F.R. and F.W. on radio towers SE.
30133 *D 7354.4*	-W. breakwater, head.	25° 22.7′ N 55° 23.3′ E	**Q.G.**				
30133.5 *D 7354.5*	-E. breakwater, head.	25° 22.6′ N 55° 23.4′ E	**Q.R.**				
30134 *D 7354.7*	-W. interior breakwater, head.	25° 22.4′ N 55° 23.3′ E	**Fl.G.** period 5s fl. 0.5s, ec. 4.5s				
30134.5 *D 7354.8*	-E. interior breakwater, head.	25° 22.5′ N 55° 23.4′ E	**Q.(2)R.** period 5s fl. 0.3s, ec. 0.7s fl. 0.3s, ec. 3.7s				
30137 *D 7354.9*	Al Hamiryah Fishing Harbor, W. breakwater.	25° 18.0′ N 55° 19.8′ E	**Fl.W.** period 5s	10 **3**	2		
30138 *D 7354.92*	-E. breakwater.	25° 18.0′ N 55° 19.8′ E	**Fl.R.** period 3s	10 **3**	1		
30140 *D 7351*	Amoco Sharjah SBM.	25° 34.6′ N 55° 24.2′ E	**Mo.(U)W.** period 37s		6	Superbuoy.	
	RACON		**Z(– – • •)** period 48s		**18**		(3cm).
30141 *D 7351.4*	Hamriyah, N. breakweater, head.	25° 28.5′ N 55° 28.9′ E	**Iso.R.** period 2s	56 **17**	5	Framework tower; 39.	
30141.2 *D 7351.5*	-S. breakwater, head.	25° 28.7′ N 55° 28.7′ E	**Fl.G.** period 10s fl. 1s, ec. 9s	56 **17**	5	Framework tower; 39.	
30141.6 *D 7351.8*	-N. training wall.	25° 28.9′ N 55° 29.5′ E	**Iso.R.** period 4s	16 **5**	5	Tower; 7.	
30141.8 *D 7351.85*	-S. training wall.	25° 28.9′ N 55° 29.4′ E	**Iso.G.** period 4s	16 **5**	5	Tower; 7.	
30152 *D 7345*	Mina Saqr Harbor, main breakwater.	25° 58.9′ N 56° 02.8′ E	**Fl.(2)W.** period 10s	16 **5**	9	Black beacon; 10.	
30153 *D 7345.5*	-Entrance.	25° 58.4′ N 56° 02.9′ E	**Oc.W.R.G.** period 3s	69 **21**	W. 12 R. 10 G. 11	White framework tower, red bands; 66.	G. 171°-173°30′, W.-177°30′, R.-180°.
			Fl.R. period 3s	72 **22**			
30156 *D 7345.2*	-Lee Breakwater.	25° 58.8′ N 56° 03.0′ E	**Fl.(2)R.** period 10s	23 **7**	10	Pillar; 10.	
30157 *D 7345.05*	--Elbow.	25° 58.8′ N 56° 02.9′ E	**Fl.G.** period 3s	7 **2**	5		Visible 165°-017°.
30158 *D 9192*	Bukha A Platform.	26° 14.7′ N 56° 03.3′ E	**Mo.(U)W.** period 15s		10		**Horn:** Mo.(U) 30s.
	RACON		**B(– • • •)**		**18**		(3 & 10cm).
30160 *D 7336*	Ra's Shaykh Mas'ud.	26° 15.3′ N 56° 12.8′ E	**Fl.W.** period 5s	62 **19**	10		Visible 065°-297°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			PERSIAN GULF				
30161 *D 7336.2*	-Khasab, breakwater, head.	26° 12.6′ N 56° 15.0′ E	**Fl.G.** period 5s		3	Gray metal post.	Fl.R. 5s 3M marks groin close S.

Section 19

Red Sea, Gulf of Aden and Arabian Sea

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			RED SEA				
	BAHR EL QULZUM (SUEZ BAY):						
	Port Ibrahim:						
30196 *D 7297.24*	--N. Mole, head.	29° 56.2′ N 32° 33.4′ E	**F.R.**	26 **8**	4	White tower, black bands.	
30200 *D 7297.25*	--S. mole, head.	29° 56.2′ N 32° 33.4′ E	**F.G.**	26 **8**	4	White tower, black bands.	
30204 *D 7297.26*	--Range, front.	29° 56.3′ N 32° 33.5′ E	**F.W.**	39 **12**	6	Black and white framework tower.	
30208 *D 7297.27*	---Rear, 200 meters 060° from front.	29° 56.4′ N 32° 33.6′ E	**F.W.R.** (vert.)	82 **25**	W. 10 R. 6	Black and white framework tower.	6 meters apart.
30212 *D 7297.23*	--Detached breakwater, E. head.	29° 56.2′ N 32° 33.2′ E	**Q.W.**	26 **8**	5	Black and white metal structure.	
30216 *D 7297.22*	---W. head.	29° 56.2′ N 32° 32.6′ E	**Fl.G.** period 2s fl. 0.3s, ec. 1.7s	26 **8**	5	Black and white metal beacon.	
30217 *D 7297.18*	--El Mina el Gedida.	29° 56.4′ N 32° 32.4′ E	**Fl.R.**				
30220 *D 7297.19*	--Petroleum Basin, E. arm of basin, S. head.	29° 57.1′ N 32° 32.0′ E	**F.G.**				
30224 *D 7297.2*	--Petroleum Basin Range, front.	29° 57.3′ N 32° 31.8′ E	**Oc.R.**	23 **7**		Mast.	Shown when ships are entering or leaving the basin.
30228 *D 7297.21*	---Rear, 130 meters 334° from front.	29° 57.4′ N 32° 31.8′ E	**2 Oc.R.** (vert.)	42 **13**		Mast.	2 meters apart. Shown when ships are entering or leaving the basin.
30229 *D 7297.16*	-Oil berth.	29° 55.0′ N 32° 30.7′ E	**Mo.(U)W.** period 15s				
30230 *D 7297.28*	**--Birket Misallat.**	29° 54.4′ N 32° 35.6′ E	**Fl.W.** period 3s	138 **42**	**18**	Metal framework tower, white daymark; 128.	
	--RACON		**Z(– – • •)**				(3 & 10cm).
30232 *D 7297.17*	-Qal'a Kebira, Green Island, off S. end.	29° 54.6′ N 32° 31.8′ E	**Q.W.**	75 **23**		Metal framework tower.	
30236 *D 7297.29*	-Newport Rock.	29° 53.1′ N 32° 33.1′ E	**Fl.W.** period 5s	56 **17**	10	Tripod, three-pile structure; 30.	
30238 *D 7297.1*	-Mansiya Reef.	29° 52.9′ N 32° 30.4′ E	**Fl.R.** period 4s	20 **6**		Tripod, three-pile structure; 30.	
30240 *D 7297.11*	-Ataqa Reef.	29° 53.1′ N 32° 29.4′ E	**Oc.G.** period 3s	35 **11**	3	White framework tower, black bands.	
30242 *D 7297.14*	Ataqa Harbor, breakwater, NE. head.	29° 53.9′ N 32° 27.9′ E	**Fl.R.** period 4s fl. 0.5s, ec. 3.5s			Red post.	
30242.2 *D 7297.13*	-SW. head.	29° 53.8′ N 32° 27.8′ E	**Fl.G.** period 4s fl. 0.5s, ec. 3.5s			Green post.	
30242.4 *D 7297.12*	-Jetty.	29° 53.8′ N 32° 27.7′ E	**Fl.R.** period 4s fl. 0.5s, ec. 3.5s			Red post.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			RED SEA				
30242.5 *D 7297.15*	-Outer mole, head.	29° 53.9′ N 32° 28.0′ E	**Fl.G.** period 4s fl. 0.5s, ec. 3.5s			Green post.	
	KHALIJ AS SUWAYS (GULF OF SUEZ):						
30244 *D 7297.09*	**-Ras Muhaggara.**	29° 48.6′ N 32° 28.2′ E	**Fl.(4)W.** period 15s	141 **43**	**18**	Framework tower; 128.	
	-RACON		**Y(– • – –)**				(3 & 10cm).
30246	*-Conry Rock lightfloat.*	29° 48.1′ N 32° 34.2′ E	**Q.(9)W.** period 15s	19 **6**	9	W. CARDINAL YBY, topmark.	
30248 *D 7297.3*	**-Qadd el Tawila.**	29° 47.8′ N 32° 38.4′ E	**Fl.W.** period 10s	154 **47**	**18**	Framework tower, white daymark; 128.	
	-RACON		**X(– • • –)**				(3 & 10cm).
30248.5	*-'Ayn Sukhnah, Lightfloat, SC No 2.*	29° 48.6′ N 32° 32.1′ E	**Iso.W.** period 6s	20 **6**	9	SAFE WATER RW, topmark.	
	-RACON		**D(– • •)**				(3 & 10cm).
30252 *D 7297.31*	**-Lahata.**	29° 40.4′ N 32° 41.2′ E	**Fl.(3)W.** period 15s	154 **47**	**18**	Framework tower, white daymark; 128.	
	-RACON		**C(– • – •)**				(3 & 10cm).
30252.2	*-'Ayn Sukhnah, Lightfloat, SC No 1.*	29° 39.5′ N 32° 32.4′ E	**L.Fl.W.** period 10s	20 **6**	9	SAFE WATER RW, topmark.	
	-RACON		**O(– – –)**				(3 & 10cm).
30252.3	*-N. 'Ayn Sukhnah, Buoy.*	29° 38.9′ N 32° 24.5′ E	**Fl.(3)W.** period 10s			E. CARDINAL BYB, pillar, topmark.	
	-RACON		**K(– • –)**				(3 & 10cm).
30252.405 *D 7297.07*	--N. breakwater, head.	29° 39.0′ N 32° 22.2′ E	**Fl.G.** period 3s		6	Green metal column; 7.	
30252.41 *D 7297.06*	--S. breakwater, head.	29° 38.6′ N 32° 22.3′ E	**Fl.R.** period 3s		6	Red metal column; 7.	
30253 *D 7297.08*	--Range, front.	29° 38.8′ N 32° 21.1′ E	**Oc.W.** period 6s lt. 4s, ec. 2s		9	White metal column.	Visible 265°30′-274°30′.
30253.1 *D 7297.081*	--Rear, 280 meters 270° from front.	29° 38.8′ N 32° 20.9′ E	**Oc.W.** period 6s lt. 4s, ec. 2s		9	White metal column.	Visible 265°30′-274°30′.
30254 *D 7297.05*	**-'Ayn Sukhnah.**	29° 36.1′ N 32° 20.5′ E	**Fl.W.** period 5s	144 **44**	**22**	Framework tower, white daymark; 128.	
			Oc.W.R.G.	131 **40**	**15**		G. 260°-273°, W.-298°, R.-306°.
	-RACON		**Q(– – • –)**				(3 & 10cm).
30254.5	*--N. Lightfloat.*	29° 35.4′ N 32° 33.0′ E	**Mo.(A)W.** period 10s	46 **14**	9	SAFE WATER RW, topmark.	
	--RACON		**B(– • • •)**				(3 & 10cm).
30255	*--South Lightfloat.*	29° 29.2′ N 32° 35.9′ E	**L.Fl.W.** period 10s fl. 2s, ec. 8s	46 **14**	12	SAFE WATER RW, topmark.	
	--RACON		**G(– – •)**				(3 & 10cm).

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			RED SEA				
30256 *D 7297.01*	**-Ras Abu Darag.**	29° 22.9′ N 32° 34.1′ E	**Fl.(2)W.** period 20s fl. 0.3s, ec. 3s fl. 0.3s, ec. 16.4s	164 **50**	**19**	White round concrete tower, white dwelling.	
	-RACON		**TR(– • – •)**				(3 & 10cm).
30258 *D 8804*	-Ras Za'farana Oilfield, Platform HB-77-5.	29° 10.8′ N 32° 41.9′ E	**Mo.(U)W.** period 15s		10		
	-RACON		**B(– • • •)**				(3 & 10cm).
30260 *D 7297*	**-Ras Zafarana.**	29° 06.7′ N 32° 39.9′ E	**Fl.W.** period 10s fl. 0.3s, ec. 9.7s	83 **25**	**17**	White stone tower, white dwelling; 82.	
	-RACON		**Z(– – • •)**				(3 & 10cm).
30260.1 *D 7296.992*	-Mersa Thelemet, jetty, N. head.	29° 01.8′ N 32° 38.2′ E	**Fl.G.** period 2s				
30260.2 *D 7296.991*	--S. head.	29° 01.5′ N 32° 38.2′ E	**Fl.R.** period 2s				
30260.3 *D 7296.995*	--Range, front.	29° 03.0′ N 32° 37.3′ E	**F.R.**	49 **15**	5	Metal framework tower, white triangular daymark point up.	**Radar reflector.**
30260.4 *D 7296.9951*	---Rear, 302° from front.	29° 03.1′ N 32° 37.2′ E	**F.R.**	66 **20**	5	Metal framework tower, white triangular daymark point down.	**Radar reflector.**
30261 *D 7297.41*	-Abu Zenima Bay Range, front.	29° 02.8′ N 33° 06.7′ E	**F.R.**	39 **12**	5	White metal tower, black bands, triangular daymark point up.	
30261.1 *D 7297.411*	--Rear, 150 meters 334° from front.	29° 02.9′ N 33° 06.6′ E	**F.R.**	49 **15**	5	White metal tower, black bands, triangular daymark point down.	
30261.3 *D 7297.4*	--Beacon.	29° 02.5′ N 33° 06.5′ E	**Fl.R.** period 3s	20 **6**	6	Red metal tower.	
30261.5 *D 8812*	-East Tanka Oilfield, Platform A.	28° 59.1′ N 32° 56.9′ E	**Mo.(U)W.**			Platform.	**Horn:** Mo.(U).
	-RACON		**Z(– – • •)**				(3 & 10cm).
30262 *D 8807*	-North Amer Oilfield, Platform FF-83-2.	28° 49.2′ N 32° 55.1′ E	**Mo.(U)W.**				
	-RACON		**U(• • –)**		**25**		(3 & 10cm).
30263 *D 8806*	--GG-83-2.	28° 45.8′ N 32° 55.4′ E	**Mo.(U)W.** period 15s			Platform.	**Horn:** Mo.(U).
	--RACON		**U(• • –)**		**25**		(3 & 10cm).
30264 *D 7296.98*	**-Ras Ruahmi.**	28° 43.2′ N 32° 49.4′ E	**Fl.(3)W.** period 20s	72 **22**	**15**	Black fiberglass tower; 33.	
	-RACON		**M(– –)**				(3 & 10cm).
30268 *D 8815*	**-Belayim Oilfield,** platform D10.	28° 37.2′ N 33° 06.7′ E	**Q.(9)W.** period 15s	75 **23**	**15**	Platform.	
	-RACON		**O(– – –)**				(3 & 10cm).
30276 *D 7296.97*	**-False Ras Gharib.**	28° 30.9′ N 32° 57.6′ E	**Fl.W.** period 5s	36 **11**	**15**	White fiberglass tower, red stripe; 33.	
30280 *D 7296.95*	**-Ras Gharib.**	28° 21.1′ N 33° 06.7′ E	**Fl.(4)W.** period 20s fl. 0.2s, ec. 2.4s fl. 0.2s, ec. 2.4s fl. 0.2s, ec. 2.4s fl. 0.2s, ec. 12s	151 **46**	**22**	White metal framework tower, white dwelling, white daymark; 128.	Visible 150°-308°. Liable to be obscured by sand storms. **DGPS Station.**
	-RACON		**G(– – •)**				(3 & 10cm).

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			RED SEA				
30284 *D 7296.96*	--N. Berth, No 2 Range, front.	28° 21.1′ N 33° 06.6′ E	**F.G.**	39 **12**	5		
30288 *D 7296.961*	---Rear, No 1, 1770 meters 302°40′ from front.	28° 21.6′ N 33° 05.6′ E	**F.G.**	72 **22**	5		
30292 *D 7296.9*	--No 3 Range, front.	28° 20.8′ N 33° 06.6′ E	**F.R.**	36 **11**	5		
30296 *D 7296.91*	---Rear, No 6, 380 meters 269° from front.	28° 20.8′ N 33° 06.4′ E	**F.R.**	161 **49**	5		
30300 *D 7296.89*	--S. Berth, No 5 Range, front.	28° 20.5′ N 33° 06.6′ E	**F.G.**	33 **10**	5		
30304 *D 7296.891*	---Rear, No 4, 430 meters 298°50′ from front.	28° 20.6′ N 33° 06.4′ E	**F.G.**	121 **37**	5		
30308 *D 7296.88*	--New S. Berth, No 8 Range, front.	28° 20.4′ N 33° 06.6′ E	**F.G.**	48 **15**	5	Framework tower, square daymark.	
30312 *D 7296.881*	---Rear, No 7, 760 meters 299°15′ from front.	28° 20.6′ N 33° 06.2′ E	**F.G.**	125 **38**	5	Framework tower, square daymark.	
30316 *D 7296.87*	--No 12 Range, front.	28° 20.2′ N 33° 06.6′ E	**F.R.**	46 **14**	5		
30320 *D 7296.871*	--Rear, No 11, 480 meters 264°20′ from front.	28° 20.1′ N 33° 06.3′ E	**F.R.**	79 **24**	5		
30324 *D 7296.86*	--No 9 Range, front.	28° 19.8′ N 33° 06.6′ E	**F.R.**	42 **13**	5	Framework tower, square daymark.	
30328 *D 7296.861*	---Rear, No 10, 240 meters 265° from front.	28° 19.8′ N 33° 06.5′ E	**F.R.**	45 **14**	5	Framework tower, square daymark.	
30332 *D 7296.85*	**-El Mallaha.**	28° 14.8′ N 33° 09.6′ E	**Fl.W.** period 10s	39 **12**	**15**	Red fiberglass tower; 33.	
30336 *D 8817*	-Platform SG 300.	28° 18.6′ N 33° 09.1′ E	**Mo.(U)W.** period 15s		5	Platform.	
	-RACON		**B(– • • •)** period 72s		**15**		(3cm).
30340 *D 7296.8*	**-Ras Shukier.**	28° 07.9′ N 33° 16.5′ E	**Fl.(3)W.** period 20s	279 **85**	**22**	Framework tower, white square daymark; 56.	
30341	--*SE.*, in southbound lane of TSS.	28° 05.0′ N 33° 23.4′ E	**Fl.(2)W.** period 10s			ISOLATED DANGER BRB, pillar, topmark.	
	--RACON		**D(– • •)**				(3 & 10cm).
30342	--*Lightfloat.*	28° 09.5′ N 33° 20.4′ E	**Mo.(A)W.** period 10s	46 **14**	12	SAFE WATER RW, buoy, topmark.	
	--RACON		**KT(– • – –)**				(3 & 10cm).
30343	--*N.*, corner of Precautionary Area.	28° 11.3′ N 33° 21.4′ E	**Fl.(2)W.** period 10s			ISOLATED DANGER BRB, pillar, topmark.	
	--RACON.		**D(– • •)**				(3 & 10cm).
30344 *D 8833*	-Platform M-72, RACON.	28° 10.7′ N 33° 26.7′ E	**M(– –)** period 72s		**15**		(3cm).
30346 *D 8844*	-Platform AMAL-9, RACON.	28° 03.7′ N 33° 34.8′ E	**D(– • •)**		6		(3 & 10cm).
30348 *D 7296.78*	**-Ras Dib.**	28° 01.8′ N 33° 24.9′ E	**Fl.W.** period 5s	148 **45**	**15**	Black fiberglass tower; 33.	
	-RACON		**MT(– – –)**				(3 & 10cm).
30352 *D 8829*	Platform R-5, RACON.	28° 17.2′ N 33° 18.7′ E	**K(– • –)**		**15**		(3 & 10cm).

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			RED SEA				
30356 *D 8824*	Yulyu Oilfield, platform J-29, RACON.	28° 15.4′ N 33° 14.6′ E	**G(– – •)** period 72s		**15**		(3cm).
30360 *D 8827*	-Platform J-62.	28° 14.4′ N 33° 16.9′ E	**Mo.(U)W.**			Platform.	
	-RACON		**N(– •)** period 72s		**15**		(3cm).
30361 *D 8822*	Platform ASMA-8.	28° 13.2′ N 33° 20.5′ E	**Mo.(U)W.** period 15s		10		One light each on opposite diagonal corners. **Horn:** Mo.(U) ev. 30s.
	RACON		**C(– • – •)**				
	-At Tur Harbor:						
30364 *D 7297.5*	--Grafton Reef, on N. side of entrance to harbor.	28° 13.6′ N 33° 36.6′ E	**Fl.W.** period 3s	18 **5**	5	White square tower, black band.	**Radar reflector.**
30368 *D 7297.51*	--Boat harbor, breakwater, head.	28° 13.7′ N 33° 37.3′ E	**F.R.**				Occasional.
30372 *D 7297.52*	--S. of boat harbor, breakwater Range, front.	28° 13.4′ N 33° 37.5′ E	**F.G.**			Beacon, triangular daymark point up.	Lead between Grafton Beacon and Erg Rivah. Shown only during the pilgrimage season, or by request.
30376 *D 7297.521*	---Rear, about 470 meters 095° from front.	28° 13.4′ N 33° 37.8′ E	**F.R.**			Beacon, round daymark.	
30380	-Ra's Jarrah Oil Well.	27° 59.0′ N 33° 44.0′ E	**Fl.R.** period 2s fl. 0.5s, ec. 1.5s	20 **6**	3		Navigation is prohibited near this light.
30384 *D 7296.77*	**Ras Zeit.**	27° 57.0′ N 33° 30.7′ E	**Fl.(2)W.** period 20s	92 **28**	**15**	White fiberglass beacon, red stripe; 33.	
30386 *D 8847*	Strait of Gubal Platform Sidki-B RACON.	27° 56.6′ N 33° 38.7′ E	**O(– – –)**				
30387 *D 8848*	ESSO Suez Platform, E. ZEIT.	27° 52.6′ N 33° 41.1′ E	**Fl.W.** period 8s		6		
	RACON		**C(– • – •)**		4		
30387.2 *D 8852*	-SE.	27° 51.4′ N 33° 42.6′ E	**Mo.(U)W.** period 15s	39 **12**	5	Platform.	One light on each corner. **Horn:** Mo.(U) ev. 30s.
	-RACON		**Q(– – • –)**				
30387.5 *D 8860*	Ashrafi Oil Field Platform WHP-2 RACON.	27° 48.9′ N 33° 42.0′ E	**Z(– – • •)**				(3 & 10cm).
30388 *D 7296.75*	**Umm El-Kiman.**	27° 49.6′ N 33° 34.9′ E	**Fl.W.** period 10s	79 **24**	**15**	Black fiberglass tower, white stripe; 33.	
30392	-Platform, RACON.	27° 50.2′ N 33° 43.7′ E	**D(– • •)**		7		(3 & 10cm).
30396 *D 7296.74*	**-Ashrafi Juzur,** S. head.	27° 47.3′ N 33° 42.4′ E	**Fl.(3+1)W.** period 15s fl. 0.3s, ec. 1.4s fl. 0.3s, ec. 1.4s fl. 0.3s, ec. 5.5s fl. 0.3s, ec. 5.5s	124 **38**	**17**	Black brick structure, white bands.	Aeromarine.
30398 *D 7296.73*	**-Shag Rock.**	27° 46.5′ N 33° 53.1′ E	**Q.(9)W.** period 15s	39 **12**	**15**	W. CARDINAL YBY, beacon, topmark.	
	-RACON		**F(• • – •)**				(3 & 10cm).
30400 *D 7296.72*	**-Bluff Point.**	27° 40.8′ N 33° 48.4′ E	**Fl.W.** period 5s	79 **24**	**15**	White fiberglass tower; 33.	
	-RACON		**B(– • • •)**		**22**		(3 & 10cm).

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			RED SEA				
30404 *D 7296.65*	**-Siyul Island.**	27° 33.6′ N 33° 52.8′ E	**Fl.(4)W.** period 20s	49 **15**	**15**	White fiberglass tower, black stripe; 33.	
30404.5 *D 7296.71*	-Abu Nuhus.	27° 34.5′ N 33° 56.0′ E	**Q.(3)W.** period 10s	36 **11**	7	PORT (A) R, beacon, topmark.	
	-RACON		**L(• – • •)**		4		(3 & 10cm).
30405 *D 7296.64*	Saghira, N.	27° 34.2′ N 33° 50.3′ E	**Fl.(2)R.** period 5s	30 **9**		Red round fiberglass tower; 16.	
30405.5 *D 7296.63*	Tawila Island.	27° 34.8′ N 33° 48.1′ E	**Fl.(2)G.** period 5s	36 **11**	8	Green round fiberglass tower; 16.	
30406 *D 7296.62*	Sha'ab Abu Rakaw.	27° 28.6′ N 33° 49.5′ E	**Q.W.**	30 **9**	8	N. CARDINAL BY, beacon, topmark; 16.	
30406.2 *D 7296.595*	Sha'b el Irq, Melana.	27° 25.3′ N 33° 52.0′ E	**Q.(3)W.** period 10s	30 **9**		E. CARDINAL BYB, beacon, topmark; 16.	
30406.4 *D 7296.59*	-E.	27° 23.9′ N 33° 52.9′ E	**V.Q.(3)W.** period 5s	30 **9**		E. CARDINAL BYB, beacon, topmark; 16.	
30407 *D 7296.6*	Abu Tig entrance, N.	27° 24.5′ N 33° 40.7′ E	**Fl.G.** period 5s fl. 0.5s, ec. 4.5s	16 **5**	1		
30407.2 *D 7296.61*	-S.	27° 24.5′ N 33° 40.7′ E	**Fl.R.** period 5s fl. 0.5s, ec. 4.5s	16 **5**	1		
30408 *D 7296.7*	**-Jazirat Shakir.**	27° 27.1′ N 34° 02.2′ E	**Fl.(2)W.** period 20s	121 **37**	**22**	White round stone tower, black stripe, white dwelling, black stripes.	Visible 187°-100°.
	-RACON		**X(– • • –)**				(3 & 10cm).
30409 *D 7296.58*	**-Umm Qamar.**	27° 21.5′ N 33° 54.5′ E	**Fl.W.** period 3s	79 **24**	**15**	Red fiberglass tower, white stripe.	
	-RACON		**TS(– • • •)**				(3 & 10cm).
	EL GHARDAQA:						
30409.5 *D 7296.5*	**-Giftun el-Saghir.**	27° 11.9′ N 33° 59.0′ E	**Fl.(3)W.** period 20s	100 **30**	**16**	Black metal tower.	
30410 *D 7296.57*	-Gaza'ir Giftun, NW.	27° 16.1′ N 33° 53.1′ E	**Fl.R.** period 5s	30 **9**		Red round fiberglass tower; 16.	
30410.2 *D 7296.56*	-Sha'b el Fanadir, SE. corner.	27° 15.4′ N 33° 50.6′ E	**Fl.G.** period 5s	30 **9**	8	Green round fiberglass tower; 16.	
30410.4 *D 7296.55*	-Franken Point.	27° 14.2′ N 33° 50.9′ E	**Fl.(2)G.** period 5s	30 **9**		Green round fiberglass tower; 16.	
30410.5 *D 7296.54*	-Marina, Entrance.	27° 13.5′ N 33° 50.6′ E	**Fl.G.** period 3s	23 **7**	3		**Radar reflector.**
30410.55 *D 7296.53*	--S.	27° 13.4′ N 33° 50.6′ E	**Fl.R.** period 3s	23 **7**	3		**Radar reflector.**
30410.6 *D 7296.51*	-Gaziret Abu Minqar, W.	27° 12.9′ N 33° 51.1′ E	**Fl.(2)R.** period 5s	30 **9**		Red round fiberglass tower; 16.	
30411 *D 7296.52*	**El Ghardaqa** Range, front.	27° 12.5′ N 33° 50.5′ E	**Oc.R.** period 5s lt. 3s, ec. 2s	181 **55**	**18**	Black framework tower, white and black rectangular daymark; 49.	
30411.5 *D 7296.521*	-Rear, 420 meters 194°18′ from front.	27° 12.3′ N 33° 50.5′ E	**Oc.R.** period 5s lt. 3s, ec. 2s	250 **76**	**18**	Black framework tower, white rectangular daymark; 59.	
30412 *D 7296.725*	**Qad Ibn Haddan.**	27° 48.3′ N 34° 06.0′ E	**Fl.W.** period 10s	154 **47**	**22**	Framework tower, white rectangular daymark; 128.	
	RACON		**M(– –)**				(3 & 10cm).

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			RED SEA				
30413 *D 7296.723*	-Southward.	27° 42.2′ N 34° 07.5′ E	**Q.(6)+L.Fl.W.** period 15s	29 **9**	8	S. CARDINAL YB, tower, topmark.	**Radar reflector.**
30414 *D 7296.724*	**Ras Muhammad.**	27° 43.5′ N 34° 14.9′ E	**Fl.(4)W.** period 30s	49 **15**	**15**	White round fiberglass tower, black bands; 33.	**Radar reflector.**
	RACON		**X(– • • –)**				(3 & 10cm).
30415 *D 7297.6*	Sharm El-Sheikh entrance, W. side.	27° 50.5′ N 34° 16.6′ E	**Oc.R.** period 5s lt. 3s, ec. 2s	23 **7**	3	Red beacon.	
30415.5 *D 7297.61*	-E. side.	27° 51.0′ N 34° 17.2′ E	**Oc.G.** period 5s lt. 3s, ec. 2s	23 **7**	3	Green beacon.	
30416 *D 7297.62*	**Ras Umm Sidd.**	27° 51.0′ N 34° 18.9′ E	**Fl.(3)W.** period 20s	148 **45**	**22**	Framework tower, white rectangular daymark; 56.	**DGPS Station.**
	RACON		**K(– • –)**				(3 & 10cm).
	GULF OF AQABA:						
30420 *D 7297.67*	-Enterprise Passage.	27° 58.8′ N 34° 26.2′ E	**Fl.W.** period 10s	43 **13**	**15**	Green fiberglass tower; 33.	F.R.W. (vert.) 1.5 miles NNW. 2 F.R. (vert.) 2 miles W.
			Oc.G. period 7s lt. 5s, ec. 2s		8		
	-RACON		**Y(– • – –)**				(3 & 10cm).
30422 *D 7297.65*	-Chisholm Point.	27° 56.7′ N 34° 30.2′ E	**Fl.(2+1)W.** period 20s	39 **12**	9	White fiberglass beacon; 33.	
	-RACON		**C(– • – •)**				(3 & 10cm).
30424 *D 7297.7*	-Gordon Reef.	27° 59.2′ N 34° 27.0′ E	**Oc.R.** period 7s lt. 5s, ec. 2s	39 **12**	8	Red and white fiberglass beacon; 33.	**Radar reflector.**
	-RACON		**G(– – •)**				(3 & 10cm).
30424.2 *D 7297.72*	-Jackson Reef.	28° 00.5′ N 34° 28.5′ E	**Fl.(2)R.** period 5s	30 **9**	8	Red fiberglass tower; 18.	
30424.4 *D 7297.71*	-W. of Johnson Point.	27° 59.8′ N 34° 29.0′ E	**Fl.(2)G.** period 5s	30 **9**	8	Green fiberglass tower; 18.	
30424.5	--*SW.*	27° 59.4′ N 34° 29.1′ E	**Q.(9)W.** period 15s			W. CARDINAL YBY, pillar, topmark.	
	--RACON		**D(– • •)**				
30424.6 *D 7297.73*	--NW.	28° 00.8′ N 34° 29.2′ E	**Fl.G.** period 5s	30 **9**	8	White fiberglass tower, green top; 20.	
30425 *D 7297.74*	-Nabq.	28° 03.4′ N 34° 26.1′ E	**V.Q.(3)W.** period 5s	26 **8**	5	Black fiberglass tower, yellow band; 20.	Visible 185°-345°. Q.(3)W. 10s 7m 5M marks stranded wreck ENE. **Radar reflector.**
30426 *D 7297.76*	-Wadi Kid.	28° 10.3′ N 34° 27.0′ E	**Q.(3)W.** period 10s	36 **11**	8	Black round fiberglass tower, yellow band; 30.	Visible 192°-293°. **Radar reflector.**
	-RACON		**K(– • –)**		6		(3 & 10cm).
30428 *D 7297.77*	**Dahab.**	28° 30.0′ N 34° 31.2′ E	**Fl.(2)W.** period 20s	66 **20**	**15**	White round fiberglass tower, black band; 33.	**Radar reflector.**
	RACON		**D(– – •)**				(3 & 10cm).
30432 *D 7297.79*	**Nuweibah.**	29° 01.7′ N 34° 39.2′ E	**Fl.(2+1)W.** period 10s	151 **46**	**15**	White round fiberglass tower; 33.	**Radar reflector.**
	RACON		**N(– •)**				(3 & 10cm).

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			RED SEA				
30436 *D 7297.9*	**Elat.**	29° 30.0′ N 34° 54.8′ E	**Fl.W.** period 10s fl. 1s, ec. 9s	211 **64**	**21**	White concrete tower, black bands.	
30437 *D 7297.96*	-Oil Terminal Range, front.	29° 31.2′ N 34° 56.0′ E	**Fl.(2)Y.** period 10s		3		
30438 *D 7297.961*	--Rear, 620 meters 011°58′ from front.	29° 31.6′ N 34° 56.1′ E	**Fl.Y.** period 5s		3		Signal station.
30439 *D 7297.91*	-Oil berth, SW. end.	29° 31.0′ N 34° 55.8′ E	**Fl.G.** period 2s		2		Berth marked by F.G. and F.R. lights.
30440 *D 7297.99*	-Elat AVIATION LIGHT.	29° 33.0′ N 34° 57.4′ E	**Al.Fl.(10)W.G.** period 60s			Building.	
30441 *D 7297.97*	-Basin entrance, SE. side.	29° 32.0′ N 34° 56.6′ E	**F.R.**		2		NW. side marked by F.G. 2M.
30444 *D 7297.995*	-Marina.	29° 32.9′ N 34° 57.6′ E	**Fl.(1+3+6)R.**		2		
	AQABA:						
30449 *D 7298*	--On shore.	29° 32.3′ N 34° 59.2′ E	**Oc.R.** period 2s **F.R.** (vert.)			Red framework tower.	
30450 *D 7298.01*	-Ayla Marina, E. breakwater, entrance.	29° 32.4′ N 34° 58.8′ E	**F.G.**		3	Post; 23.	
30451 *D 7298.02*	--W. breakwater, entrance.	29° 32.4′ N 34° 58.8′ E	**F.R.**		3	Post; 23.	
30451.1 *D 7298.04*	---N. light.	29° 32.4′ N 34° 58.7′ E	**F.W.**		3	Post; 23.	
30451.2 *D 7298.03*	---S. light.	29° 32.4′ N 34° 58.8′ E	**F.W.**		3	Post; 23.	
30452 *D 7298.2*	-Control tower.	29° 30.8′ N 34° 59.8′ E	**Fl.(3)W.** period 10s fl. 0.2s, ec. 1.1s fl. 0.2s, ec. 1.1s fl. 0.2s, ec. 7.2s	236 **72**	**17**	White round concrete tower.	
30454 *D 7298.15*	-Yacht club, N. side.	29° 31.8′ N 34° 59.9′ E	**Fl.R.**			White round tower, red top.	
30455 *D 7298.1*	--S. side.	29° 31.7′ N 34° 59.9′ E	**Q.G.**			White round tower, green top.	
30458 *D 7298.21*	-S. of Yarmouk.	29° 26.8′ N 34° 58.1′ E	**Q.(9)W.** period 15s	30 **9**	7	White metal structure.	
30460 *D 7298.22*	-Tala Bay, entrance, N.	29° 24.6′ N 34° 58.7′ E	**Fl.R.** period 5s fl. 0.5s, ec. 4.5s		2		
30460.1 *D 7298.23*	--S.	29° 24.5′ N 34° 58.6′ E	**Fl.G.** period 5s fl. 0.5s, ec. 4.5s		2		
30462 *D 7298.24*	-Royal Jordanian Naval Base, Detached breakwater, N. end.	29° 23.9′ N 34° 57.8′ E	**Fl.R.** period 2s	10 **3**			
30462.1 *D 7298.245*	--S. end.	29° 23.8′ N 34° 57.8′ E	**Fl.R.** period 2s	10 **3**			
30462.2 *D 7298.25*	--Entrance, E.	29° 23.8′ N 34° 57.9′ E	**Fl.R.** period 2s	30 **9**			
30462.3 *D 7298.255*	---W.	29° 23.8′ N 34° 57.9′ E	**Fl.G.** period 2s			Beacon.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			RED SEA				
30463 *D 7298.262*	-Industrial port, JFl, jetty, N.	29° 22.1′ N 34° 57.5′ E	**2 F.R.** (vert.)				R. lights on chimneys 1.1M NE.
30463.1 *D 7298.265*	---S.	29° 21.9′ N 34° 57.5′ E	**2 F.G.** (vert.)				
30469 *D 7298.3*	Shushah.	27° 55.7′ N 34° 54.0′ E	**Fl.W.** period 10s fl. 0.5s, ec. 9.5s	325 **99**	9	Metal structure; 3.	
30469.5 *D 7298.31*	Burqan.	27° 54.3′ N 35° 04.4′ E	**Fl.W.** period 4s fl. 0.5s, ec. 3.5s	125 **38**	9	Metal structure; 3.	
30469.6 *D 7298.32*	Ash Sharmah Range, front.	27° 55.7′ N 35° 16.5′ E	**Q.W.**				
30469.7 *D 7298.321*	-Rear, 336 meters 036° from front.	27° 55.9′ N 35° 16.6′ E	**Q.W.**				
30470 *D 7298.33*	Jazair Sila.	27° 39.0′ N 35° 16.7′ E	**Fl.W.** period 12s	49 **15**	12		
	RACON		**J(• – – –)**				(3 & 10cm).
30470.5 *D 7296.4*	**Ra's Abu Sawmah.**	26° 51.3′ N 34° 00.2′ E	**Fl.(4)W.** period 20s	100 **30**	**16**	Black metal tower, white top.	
	RACON		**C(– • – •)**				(3 & 10cm).
30471 *D 7296.34*	Panorama Reef.	26° 45.3′ N 34° 04.8′ E	**Q.W.**	29 **9**	5	N. CARDINAL BY, fiberglass tower, topmark.	
30471.2 *D 7296.33*	Middle Reef.	26° 42.4′ N 34° 05.9′ E	**Q.(3)W.** period 10s	23 **7**	5	E. CARDINAL BYB, beacon, topmark.	
30471.3	*Fellowes Rocks Buoy.*	26° 41.7′ N 34° 03.9′ E	**Fl.(2)W.** period 8s			ISOLATED DANGER BRB, pillar, topmark.	
	RACON		**D(– • •)**				(3 & 10cm).
30471.4 *D 7296.39*	Geziret Safaga, NE.	26° 45.7′ N 33° 59.5′ E	**Q.(3)W.** period 10s	66 **20**	5	E. CARDINAL BYB, beacon, topmark.	
30471.5 *D 7296.38*	-SE.	26° 42.9′ N 33° 59.9′ E	**Dir.W.R.G.** period 3s	49 **15**	W. 12 R. 10 G. 10	White fiberglass tower.	Fl.G. 214°-218°, Fl.W.-220°, Fl.R.-224°.
	RACON		**Z(– – • •)**				(3 & 10cm).
30472 *D 7296.37*	Bur Safaga Transit Beacon.	26° 44.2′ N 33° 56.4′ E	**F.R.**	135 **41**	4	Metal framework tower.	
30474 *D 7296.35*	-Moorewood.	26° 42.1′ N 33° 59.8′ E	**Fl.(3)G.** period 10s	29 **9**	6	STARBOARD (A) G, tower, topmark.	
30474.5 *D 7296.36*	-Spit Reef.	26° 41.5′ N 33° 58.4′ E	**Fl.(3)R.** period 10s	29 **9**	3	PORT (A) R, tower, topmark.	
30475 *D 7296.31*	-Handyman Reef.	26° 39.3′ N 34° 02.2′ E	**V.Q.(9)W.** period 10s	30 **9**	5	W. CARDINAL YBY, beacon, topmark.	
30475.1 *D 7296.32*	-Sha'b Shear.	26° 39.1′ N 34° 06.5′ E	**V.Q.(3)W.** period 5s	18 **6**	5	E. CARDINAL BYB, beacon, topmark.	
30475.2 *D 7296.3*	-Safaga Ulbur.	26° 36.5′ N 34° 01.1′ E	**Fl.W.** period 5s	43 **13**	6	White fiberglass tower, red top.	
30476 *D 7296.2*	**Al Ikhwan (The Brothers).**	26° 18.5′ N 34° 50.7′ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	119 **36**	**17**	White round tower, square dwellings; 102.	
	RACON		**B(– • • •)**				(3 & 10cm).
30478 *D 7298.41*	Shi'b Shu'aybah, No 3.	24° 29.5′ N 37° 07.4′ E	**Fl.(2)W.** period 6s	23 **7**	5	Black pile, red band.	Reefs to E. marked by beacons Nos 4, 7, 2, 5, 6.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			RED SEA				
30479 *D 7298.42*	-No 11.	24° 23.5′ N 37° 09.5′ E	**Fl.(2)W.** period 20s	23 **7**	5	Black pile, red band.	Reefs to E. marked by beacons Nos 9, 8, 12, 13.
30480 *D 7298.4*	Al Wajh AVIATION LIGHT.	26° 12.1′ N 36° 28.5′ E	**Al.Fl.W.G.** period 5s				
30484 *D 7296.25*	Al Qusayr.	26° 05.9′ N 34° 17.2′ E	**F.R.**		5	Transporter.	
30492 *D 7296.1*	**Daedalus Reef.**	24° 55.8′ N 35° 52.4′ E	**Fl.(1+2)W.** period 12s fl. 0.2s, ec. 5.2s fl. 0.2s, ec. 1s fl. 0.2s, ec. 5.2s	100 **30**	**15**	White round stone tower, black bands, concrete base, two-story dwelling.	
	RACON		**D(– • •)**				(3 & 10cm).
30493 *D 7298.43*	Sharm al Khaur, No 20.	24° 14.2′ N 37° 39.1′ E	**Fl.R.** period 5s	16 **5**	2	Red pile.	Passage into Sharm al Khaur marked by light beacons.
30494 *D 7298.44*	-No 21.	24° 13.8′ N 37° 39.3′ E	**Q.W.**	23 **7**	4	Yellow pile, black top.	Reefs to SE. marked by beacons Nos 22, 23, 24, 26.
30496 *D 7298.45*	Schermo Reef.	24° 03.4′ N 37° 51.5′ E	**Fl.W.** period 5s	33 **10**	11	Mast, concrete block.	**Horn:** 1 bl. ev. 20s (bl. 4s, si. 16s).
	RACON		**Y(– • – –)** period 75s		12		(3cm).
30497 *D 7298.46*	-No 29.	24° 00.2′ N 37° 53.0′ E	**Q.(6)+L.Fl.W.** period 15s	23 **7**	4	Black pile, yellow top.	
30498 *D 7298.47*	Sharm Yanbu W., No 27.	24° 08.5′ N 37° 55.6′ E	**Fl.R.** period 2s	16 **5**	2	Red pile.	
30499 *D 7298.48*	-E. No 28.	24° 08.4′ N 37° 55.9′ E	**Fl.G.** period 2s	16 **5**	2	Green pile.	
30500 *D 7298.5*	Yanbu, Bn. No 1.	24° 04.0′ N 38° 03.1′ E	**Q.G.**		5	Beacon.	
30504 *D 7298.49*	-Bn. No 2.	24° 04.0′ N 38° 02.8′ E	**Q.R.**		5	Beacon.	
30508 *D 7298.51*	-Bn. No 6.	24° 04.3′ N 38° 03.3′ E	**Fl.R.** period 2s		5	Beacon.	
30508.5 *D 7298.52*	Umm al Nukuth.	24° 01.4′ N 38° 02.3′ E	**Fl.(2)W.** period 15s		10	ISOLATED DANGER BRB, beacon, topmark.	
30509 *D 7298.53*	-No 30.	23° 57.2′ N 37° 57.6′ E	**Fl.(2)W.** period 6s	23 **7**	5	Black pile, red band.	
30510 *D 7298.54*	Shi′b al-Qirin, No 31.	23° 54.8′ N 38° 01.7′ E	**Q.W.**	23 **7**	4	Yellow pile, black top.	
30511 *D 7298.55*	-No 33.	23° 52.5′ N 38° 44.6′ E	**Q.(3)W.** period 10s	23 **7**	4	E. CARDINAL BYB, beacon, topmark.	
30511.05 *D 7298.56*	-No 36.	23° 50.4′ N 38° 08.1′ E	**Q.(9)W.** period 15s	23 **7**	4	W. CARDINAL YBY, beacon, topmark.	
30511.1 *D 7298.65*	-King Fahd Port Range, front.	23° 57.9′ N 38° 11.6′ E	**Q.W.**			Red and white structure, black triangular daymark point up, white stripe.	
30511.2 *D 7298.651*	--Rear, 220 meters 037°51′ from front.	23° 58.0′ N 38° 11.7′ E	**Iso.W.** period 7s			Red and white structure, black triangular daymark point up, white stripe.	
30511.22 *D 7298.62*	-Beacon No 2C.	23° 56.8′ N 38° 10.6′ E	**Q.(6)+L.Fl.W.** period 15s			S. CARDINAL YB, beacon, topmark.	
30511.23 *D 7298.63*	--No 3C.	23° 57.1′ N 38° 11.3′ E	**Q.G.**			STARBOARD (A) G, beacon, topmark.	
30511.24 *D 7298.64*	--No 4C.	23° 57.6′ N 38° 11.2′ E	**Fl.(4)R.** period 10s			Red beacon, red square daymark.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			RED SEA				
30511.25 *D 7298.66*	--No 9C.	23° 58.0′ N 38° 11.6′ E	**Q.(9)W.** period 15s			W. CARDINAL YBY, beacon, topmark.	
30511.3 *D 7298.67*	--Inner Range, front.	23° 58.4′ N 38° 11.5′ E	**Q.W.**			Red and white post.	
30511.4 *D 7298.671*	---Rear, about 160 meters 015°22′ from front.	23° 58.5′ N 38° 11.5′ E	**Iso.W.** period 7s			Red and white post.	
30511.5 *D 7298.68*	-Beacon No 14C.	23° 58.2′ N 38° 11.7′ E	**Iso.R.** period 2s			PORT (A) R, beacon, topmark.	
30511.51 *D 7298.7*	--No 13C.	23° 57.6′ N 38° 12.2′ E	**Q.G.**			STARBOARD (A) G, beacon, topmark.	
30511.52 *D 7298.72*	--No 19C.	23° 57.4′ N 38° 12.4′ E	**Q.G.**			STARBOARD (A) G, beacon, topmark.	
30511.53 *D 7298.71*	--No 22C.	23° 57.5′ N 38° 12.5′ E	**Q.R.**			PORT (A) R, beacon, topmark.	
30511.54 *D 7298.73*	--No 24C.	23° 57.4′ N 38° 12.7′ E	**Fl.R.** period 5s			PORT (A) R, beacon, topmark.	
30511.55 *D 7298.74*	--No 23C.	23° 57.0′ N 38° 12.9′ E	**Q.(3)W.** period 10s			E. CARDINAL BYB, beacon, topmark.	
30511.61 *D 7298.75*	-Service Harbor, W. breakwater.	23° 57.3′ N 38° 12.9′ E	**Oc.R.**				Oc.G. marks E. breakwater.
30511.71 *D 7298.83*	-Crude Oil Terminal, W. end.	23° 56.6′ N 38° 13.3′ E	**2 F.R.** (vert.)				2 F.R. (vert.) mark each end of berths 500 meters NE. and 800 meters E.
30511.72 *D 7298.84*	--E. end.	23° 56.2′ N 38° 14.3′ E	**2 F.R.** (vert.)				**Horn:** Mo.(U) 30s.
30511.81 *D 7298.77*	-Beacon No 26C.	23° 57.0′ N 38° 13.5′ E	**V.Q.R.**			Red beacon.	
30511.82 *D 7298.82*	--No 25C.	23° 56.9′ N 38° 13.7′ E	**V.Q.G.**			Green beacon.	
30511.83 *D 7298.78*	--No 28C.	23° 57.1′ N 38° 13.6′ E	**Q.R.**			Red beacon.	
30511.84 *D 7298.79*	--No 30C.	23° 57.2′ N 38° 13.7′ E	**Oc.R.** period 5s			Red beacon.	
30511.85 *D 7298.8*	--No 32C.	23° 57.1′ N 38° 13.8′ E	**Q.R.**			Red beacon.	
30511.86 *D 7298.81*	--No 34C.	23° 57.0′ N 38° 14.2′ E	**Oc.R.** period 10s			Red beacon.	
30511.91 *D 7298.86*	-Yanbu Refinery Terminal, beacon No 2.	23° 54.8′ N 38° 17.5′ E	**F.G.**			STARBOARD (A) G, beacon, topmark.	
30511.92 *D 7298.85*	--No 1.	23° 54.9′ N 38° 17.3′ E	**F.R.**			PORT (A) R, beacon, topmark.	2 F.R. (vert.) mark berths.
30511.93 *D 7298.87*	--No 3.	23° 55.1′ N 38° 17.5′ E	**F.G.**			STARBOARD (A) G, beacon, topmark.	
30511.94 *D 7298.88*	--No 4.	23° 55.1′ N 38° 17.3′ E	**F.G.**			STARBOARD (A) G, beacon, topmark.	
	YANBU SOUTHERN APPROACH CHANNEL						
30512 *D 7298.995*	**-Yanbu South.**	23° 28.1′ N 38° 25.6′ E	**Fl.W.R.** period 10s fl. 0.2s, ec. 9.8s	105 **32**	W. **20** R. **17**	White round metal tower, red bands.	W. 200°-090°, R.-140°. **Radar reflector.**
	RACON		**B(– • • •)**				(3 & 10cm).
30513 *D 7298.98*	-No 43.	23° 31.0′ N 38° 21.2′ E	**Q.(9)W.** period 15s	23 **7**	4	Yellow pile, black band.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			RED SEA				
30514 *D 7298.99*	-Shib as Suflani, No 44.	23° 30.5′ N 38° 14.7′ E	**Q.(6)+L.Fl.W.** period 15s	23 **7**	4	Black pile, yellow top.	
30516 *D 7298.97*	-Beacon S3.	23° 31.0′ N 38° 29.9′ E	**Fl.(3)G.** period 10s	39 **12**	8	STARBOARD (A) G, beacon, topmark.	**Radar reflector.**
30520	-RACON, beacon SR2.	23° 34.7′ N 38° 27.7′ E	**TG(– – – •)**				(3 & 10cm).
30521 *D 7298.93*	No 40.	23° 42.7′ N 38° 21.1′ E	**Q.W.**	23 **7**	4	Yellow pile, black top.	
30522 *D 7298.94*	-No 42.	23° 39.3′ N 38° 17.8′ E	**Q.(9)W.** period 15s	23 **7**	4	Yellow pile, black band.	
30524 *D 7298.96*	-Beacon, S6.	23° 38.3′ N 38° 25.2′ E	**Fl.(4)R.** period 12s	39 **12**	8	PORT (A) R, beacon, topmark.	**Radar reflector.**
30525 *D 7298.57*	Shi'b as Sabah, No 32.	23° 52.0′ N 37° 53.5′ E	**Q.W.**	23 **7**	4	Yellow pile, black top.	Reefs 3 miles and 9 miles SW. marked by beacons Nos 34, 35, 39.
30526 *D 7298.61*	-Mansi No 41.	23° 38.9′ N 38° 02.1′ E	**Fl.(2)W.** period 20s	23 **7**	5	Black pile, red band.	
30528 *D 7298.95*	-Beacon S7.	23° 41.1′ N 38° 28.7′ E	**Fl.(4)G.** period 12s	39 **12**	8	Beacon, green triangular daymark point up.	**Radar reflector.**
30532	-RACON, beacon SR3.	23° 42.9′ N 38° 23.2′ E	**X(– • • –)**				(3 & 10cm).
30534 *D 7298.92*	-No 37.	23° 45.8′ N 38° 17.0′ E	**Q.(6)+L.Fl.W.** period 15s	23 **7**	4	Black pile, yellow top.	Beacon No 36, Q.(9)W. 15s, 9.9 miles NW.
30535 *D 7298.89*	-Ra's al Mu'ajjiz Oil Terminal Jetty, NW. end.	23° 48.6′ N 38° 23.9′ E	**Mo.(U)G.** period 15s		7		3 Mo.(U)R. 15s 8M lights shown from terminal.
30535.1 *D 7298.91*	--SE. end.	23° 48.1′ N 38° 24.5′ E	**Mo.(U)G.** period 15s		7		
	RABIGH:						
30536 *D 7299*	**-Shib al Khamsa**, No 12.	22° 44.8′ N 38° 37.2′ E	**Fl.W.** period 5s fl. 1s, ec. 4s	65 **20**	**16**	S. CARDINAL YB, beacon, topmark.	**Radar reflector.**
	-RACON		**O(– – –)**		**20**		(3 & 10cm).
30540 *D 7299.01*	-Shib Al Abiyadh. No 13.	22° 42.7′ N 38° 48.2′ E	**Q.(6)+L.Fl.W.** period 15s	39 **12**	10	S. CARDINAL YB, column, topmark.	**Radar reflector.**
30544 *D 7299.02*	-Tanta Rock, No 14.	22° 43.6′ N 38° 56.0′ E	**Q.W.**	33 **10**	8	N. CARDINAL BY, column, topmark.	**Radar reflector.**
30545 *D 7299.12*	-No 11.	22° 39.9′ N 38° 59.5′ E	**Q.(3)W.** period 10s			E. CARDINAL BYB, column, topmark.	The entrance to Rabigh refinery is marked by lights.
30545.9 *D 7299.194*	**King Abdullah Port, Shib Nazar.**	22° 19.4′ N 38° 51.3′ E	**Fl.W.** period 7s		**15**		
	RACON		**M(– –)**				
30545.91 *D 7299.195*	-Rose Reef.	22° 18.7′ N 38° 53.1′ E	**Fl.W.** period 10s		10		
30545.92 *D 7299.197*	**-Al Fahal.**	22° 18.5′ N 38° 58.1′ E	**Fl.W.** period 7s		**15**		
30545.93 *D 7299.199*	**-Qita' al Kirsh.**	22° 26.0′ N 38° 59.6′ E	**Fl.G.** period 10s		**15**		
30545.94 *D 7299.2*	--Reef.	22° 25.9′ N 38° 59.8′ E	**V.Q.(3)W.** period 10s		10		
30545.95 *D 7299.193*	-Horse Shoe Reef.	22° 26.1′ N 38° 56.9′ E	**Fl.R.** period 10s		5		

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			RED SEA				
30546	RACON, Al Qadimah	22° 19.6′ N 38° 57.6′ E	**M(– –)**				
30547 *D 7299.24*	Al Qadimah.	22° 20.1′ N 39° 04.8′ E	**Fl.W.** period 3s fl. 0.5s, ec. 2.5s	23 **7**	5		
30548 *D 7299.55*	**Mismari Reef.**	21° 19.5′ N 39° 01.9′ E	**Fl.(3)W.R.** period 15s	46 **14**	W. **19** R. -	White structure, black rectangular daymark.	R. 185°-196°, W.-208°, R.-025°, W.-185°. **Radar reflector.**
	RACON		**M(– –)**		12		(3 & 10cm).
30552 *D 7299.44*	Juddah (Jidda) AVIATION LIGHT.	21° 40.6′ N 39° 08.9′ E	**Al.Fl.W.G.**				
	JIDDAH HARBOR:						
30554 *D 7299.509*	**-Jiddah.**	21° 28.1′ N 39° 09.0′ E	**Fl.(3)W.** period 20s	450 **137**	**25**		
30555 *D 7299.5*	-No 31.	21° 29.9′ N 39° 07.4′ E	**V.Q.W.**	26 **8**	6	N. CARDINAL BY, beacon, topmark.	**Radar reflector.**
30556 *D 7299.501*	-Ra's al Makhbat.	21° 30.1′ N 39° 08.1′ E	**Fl.R.** period 2s	26 **8**	6	Red beacon.	
30560 *D 7299.502*	-Ra's ash Shi'b.	21° 29.9′ N 39° 08.3′ E	**Fl.G.** period 2s	26 **8**	6	Green beacon.	
30572 *D 7299.504*	-Shi'b Qaham.	21° 27.2′ N 39° 06.7′ E	**Fl.W.R.G.** period 2.5s fl. 0.2s, ec. 2.3s	46 **14**	W. 14 R. - G. -	White structure, black rectangular daymark.	W. 128°-178°, R.-010°, G.-039°, W.-064°, R.-128°. **Radar reflector.**
	-RACON		**T(–)**				(3 & 10cm).
30576 *D 7299.503*	**-Shi'b Jahan.**	21° 28.5′ N 39° 07.2′ E	**Fl.W.R.G.** period 5s	46 **14**	**15**	White structure, red rectangular daymark.	G. 129°-165°, R.-027°, W.-044°, R.-093°, W.-129°. **Radar reflector.**
30580 *D 7299.505*	-Middle Gateway, N. beacon.	21° 28.0′ N 39° 07.9′ E	**Fl.R.** period 3s			PORT (A) R, beacon, topmark.	Intensified 075°-105°. **Radar reflector.**
30584 *D 7299.506*	--S. beacon.	21° 27.8′ N 39° 08.1′ E	**Fl.G.** period 3s			STARBOARD (A) G, beacon, topmark.	Intensified 075°-105°. **Radar reflector.**
30588 *D 7299.507*	-Inner Gateway, N. side.	21° 28.0′ N 39° 08.9′ E	**Fl.(2)R.** period 6s			PORT (A) R, beacon, topmark.	Intensified 075°-105°. **Radar reflector.**
30592 *D 7299.508*	-Inner Gateway, S. side.	21° 27.8′ N 39° 08.9′ E	**Fl.(2)G.** period 6s			STARBOARD (A) G, beacon, topmark.	Intensified 075°-105°. **Radar reflector.**
30593 *D 7299.516*	-Ship Repair Yard.	21° 28.8′ N 39° 09.0′ E	**2 U.Q.R.** (vert.)	20 **6**	3	Framework tower.	
30594 *D 7299.51*	--Dolphin A.	21° 28.6′ N 39° 09.0′ E	**U.Q.R.**	10 **3**	4	Dolphin.	
30595 *D 7299.511*	--Dolphin B.	21° 28.6′ N 39° 09.0′ E	**U.Q.R.**	10 **3**	4	Dolphin.	
30596 *D 7299.521*	-Approaches, No 1A.	21° 22.8′ N 39° 06.5′ E	**Fl.G.** period 3s		5		Horn.
30597 *D 7299.52*	--N. side.	21° 23.4′ N 39° 06.4′ E	**Fl.R.**				
30598 *D 7299.523*	--No 2A.	21° 23.5′ N 39° 08.0′ E	**Fl.G.** period 5s		3		
30599 *D 7299.522*	--No 2B.	21° 24.1′ N 39° 07.9′ E	**Fl.R.** period 6s		5		Horn.
30600 *D 7299.533*	-Pier 5, No 13.	21° 25.7′ N 39° 10.3′ E	**Fl.Y.**				

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			RED SEA				
30601 *D 7299.534*	--No 14.	21° 25.8′ N 39° 10.5′ E	**Oc.Y.**				
30602 *D 7299.527*	--No 1E.	21° 24.6′ N 39° 08.9′ E	**Q.G.**		3		Channel marked by lighted buoys and beacons.
30603 *D 7299.526*	--No 2E.	21° 24.7′ N 39° 08.9′ E	**Q.R.**		3		
30603.5 *D 7299.524*	-Explosives pier, approach channel, No A-1E.	21° 23.8′ N 39° 08.8′ E	**Fl.G.** period 3s		3		
30603.6 *D 7299.525*	--No A-2E.	21° 23.9′ N 39° 08.8′ E	**Fl.R.** period 2s		3		Horn.
30604 *D 7299.42*	**Shi'b al Kabir.**	21° 40.9′ N 38° 50.5′ E	**Fl.W.R.G.** period 10s	46 **14**	W. **19** R. - G. -	White tripod, red band.	W. 327°-118°, G.-163°, R.-327°.
	RACON		**K(– • –)**		**17**		(3 & 10cm).
30605 *D 7296.03*	Shap Ras Banas Beacon.	23° 51.1′ N 35° 46.5′ E	**Fl.R.** period 5s			16.	
30605.1 *D 7296.02*	Jazirat Sirnakah Beacon.	23° 49.8′ N 35° 48.4′ E	**Fl.G.** period 3s	23 **7**	3	Metal tower.	
30605.2 *D 7296.01*	Horseshoe Reef Beacon.	23° 48.6′ N 35° 47.9′ E	**Fl.R.** period 3s	23 **7**	3	Metal tower.	
30605.25 *D 7296.09*	Philadelphus Point.	23° 55.8′ N 35° 35.7′ E	**Fl.R.**	33 **10**	6	Red fiberglass beacon.	
30605.3 *D 7296.08*	Farida Point Range, front.	23° 56.0′ N 35° 35.0′ E	**F.R.**	36 **11**	5	Metal tower, white and green stripes.	
30605.31 *D 7296.081*	-Rear, 410 meters 314° from front.	23° 56.2′ N 35° 34.9′ E	**F.R.**	56 **17**	5	Metal tower, white and green stripes.	
30605.4 *D 7296.05*	Sandy Beacon.	23° 55.5′ N 35° 30.6′ E	**Fl.W.** period 5s		3	16.	
30605.5 *D 7296.06*	Baranis Beacon.	23° 56.2′ N 35° 29.8′ E	**Fl.G.** period 3s	23 **7**	3	Metal tower.	
30606 *D 7296*	Marsa Halaib.	22° 14.6′ N 36° 39.4′ E	**Fl.R.** period 4s	13 **4**	3	Beacon.	
30608 *D 7295.9*	**Abington Reef.**	20° 53.6′ N 37° 27.0′ E	**Fl.(2)W.** period 18s fl. 0.5s, ec. 5s fl. 0.5s, ec. 12s	99 **30**	**15**	Brown metal framework tower, concrete base.	Partially obscured by Makawwar Island.
30612 *D 7295.8*	**Sanganeb Reef.**	19° 43.4′ N 37° 26.5′ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	165 **50**	**19**	Round concrete tower, dwelling, white lantern.	**Diaphone:** 1 bl. ev. 30s (bl. 3s, si. 27s).
30616 *D 7295.78*	Wingate Reef (Su) S. extremity.	19° 37.1′ N 37° 17.2′ E	**Fl.G.** period 3s fl. 0.3s, ec. 2.7s	27 **8**	6	Black metal framework tower, white hut, piles, concrete base; 26.	
30620 *D 7295.79*	Wingate Reef, E. beacon.	19° 38.6′ N 37° 19.4′ E	**Fl.(3)W.** period 15s fl. 0.5s, ec. 2.5s fl. 0.5s, ec. 2.5s fl. 0.5s, ec. 8.5s	23 **7**	6	Black and white checkered concrete tower, 23.	
	RACON		**Q(– – • –)**				
30628 *D 7295.61*	-Entrance.	19° 36.3′ N 37° 14.2′ E	**Fl.(2)G.** period 5s	26 **8**	4		
	BUR SUDAN (PORT SUDAN):						
30632 *D 7295.6*	-Damma Damma, S. side of entrance.	19° 35.8′ N 37° 14.6′ E	**Q.R.**	26 **8**	6	Red and white checkered metal framework tower, concrete base.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			RED SEA				
30636 *D 7295.5*	-S. side of entrance.	19° 35.4′ N 37° 14.9′ E	**Fl.(2)W.** period 10s fl. 0.5s, ec. 1s fl. 0.5s, ec. 8s	63 **19**	10	Stone tower, white band; 72.	
30640 *D 7295.62*	-Head of second coral pier, N. side of entrance.	19° 36.3′ N 37° 14.1′ E	**F.G.**	26 **8**	3	Green concrete column, white bands; 22.	
30644 *D 7295.74*	-East Town.	19° 36.7′ N 37° 13.9′ E	**Q.R.**	36 **11**	7		F.W.R. (occasional) marks head of jetty 0.4 mile NW.
30648 *D 7295.65*	-W. shore of harbor Range, front.	19° 36.7′ N 37° 13.4′ E	**F.R.** (neon)			Red metal framework tower; 113.	Visible 260°-320°.
30652 *D 7295.655*	--Rear, 969 meters 305° from front.	19° 37.0′ N 37° 13.0′ E	**F.R.** (neon)			Red metal framework tower, white band; 157.	Visible 260°-320°.
30656 *D 7295.66*	-Range, front.	19° 36.7′ N 37° 13.6′ E	**2 F.G.**	17 **5**			Marks the anchor berths in key anchorage and should not be used for navigating the channel. Occasional.
30660 *D 7295.665*	--Rear, 197 meters 314°18′ from front.	19° 36.8′ N 37° 13.5′ E	**2 F.G.**	68 **21**			Occasional.
30662 *D 7295.67*	-S. anchorage.	19° 36.7′ N 37° 13.8′ E	**2 F.G.** (horiz.)			Port offices, S. end.	
30662.5 *D 7295.68*	-N. anchorage.	19° 36.7′ N 37° 13.8′ E	**2 F.G.** (horiz.)			Port offices, middle.	
30664 *D 7295.63*	-Head of Quay, S. side of harbor within entrance.	19° 36.4′ N 37° 13.9′ E	**Fl.R.** period 3s fl. 1s, ec. 2s	26 **8**	5	Metal framework tower.	F.R. over F.G. at pilot lookout indicates vessels should not approach within 1 mile of harbor entrance.
	NORTH TOWARTIT REEF ANCHORAGE:						
30668 *D 7295.195*	-N. beacon.	19° 30.5′ N 37° 19.2′ E	**Q.R.**	26 **8**	4	White metal framework tower, black bands, black and white checkered base; 27.	
	-RACON		**D(– • •)**				
30672 *D 7295.19*	-E. beacon.	19° 29.9′ N 37° 20.2′ E	**Fl.W.** period 7.5s fl. 0.7s, ec. 6.8s	27 **8**	5	Metal framework tower, red concrete base, white bands; 28.	
30676 *D 7295.17*	-S. beacon.	19° 28.9′ N 37° 19.7′ E	**Fl.G.** period 10s fl. 1s, ec. 9s	25 **8**	5	Black metal framework tower, black concrete base, white stripes; 26.	
30680 *D 7295.18*	-Elbow beacon.	19° 29.3′ N 37° 17.8′ E	**Fl.(4)W.** period 20s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 15s	21 **6**	6	Red metal framework tower, red and white checkered concrete base; 23.	
30682.05 *D 7295.14*	*-Bashayer Terminal SPM.*	19° 24.2′ N 37° 19.5′ E	**Mo.(U)W.**			Buoy.	**Horn:** Mo.(U).
	-RACON		**D(– • •)**				
30682.07 *D 7295.15*	--Jetty, head.	19° 24.5′ N 37° 18.4′ E	**Fl.W.** period 5s	33 **10**	10		
30682.1 *D 7295.12*	-No 2.	19° 22.0′ N 37° 19.3′ E	**Fl.(2)G.** period 10s	26 **8**	7	Black framework tower, white bands, black concrete base, white stripes.	
30682.2 *D 7295.08*	-No 3.	19° 14.4′ N 37° 20.5′ E	**Fl.(3)G.** period 15s	26 **8**	7	Black framework tower, white bands, black concrete base.	
30683 *D 7295.16*	-No 4.	19° 28.0′ N 37° 19.5′ E	**Q.R.**	26 **8**	5	Red framework tower, red concrete base.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			RED SEA				
30683.2 *D 7295.11*	-No 6.	19° 18.3′ N 37° 22.5′ E	**Fl.(2)R.** period 10s	26 **8**	5	Red framework tower, red concrete base, white stripes.	
30683.3 *D 7295.09*	-No 7.	19° 16.5′ N 37° 23.3′ E	**Fl.(3)R.** period 15s	26 **8**	5	Red framework tower, red concrete base, white stripes.	
	-RACON		**B(– • • •)**				
30683.4 *D 7295.06*	-No 8.	19° 13.3′ N 37° 23.1′ E	**Q.W.**	26 **8**	5	Red framework tower, red concrete base.	
30683.5 *D 7295.05*	-No 9.	19° 09.7′ N 37° 24.5′ E	**Fl.W.** period 10s	26 **8**	5	Red framework tower, red concrete base, white bands.	
	-RACON		**Q(– – • –)**				
30683.6 *D 7295.1*	-Williamson Shoals, S.	19° 17.8′ N 37° 27.5′ E	**Fl.(2)W.** period 5s	30 **9**	5	Red and white metal framework tower.	
30683.7 *D 7295.07*	-Al Mansuriyah, NW.	19° 13.9′ N 37° 23.3′ E	**Fl.R.** period 5s	33 **10**	5	Red metal framework tower, white bands, red base.	
30683.8 *D 7295.04*	-Sawakin Harbor, entrance, N.	19° 08.5′ N 37° 21.9′ E	**Fl.(2)W.** period 5s	26 **8**	5	Black and white metal framework tower, base.	Channel marked by beacons.
30684 *D 7295.031*	Hindi Gider, W. side.	19° 23.0′ N 37° 54.8′ E	**Fl.(2)W.** period 20s fl. 0.8s, ec. 1s fl. 0.8s, ec. 17.4s	87 **27**	10	Red metal framework tower.	
30685 *D 7293.032*	N. Jummah Shoal.	19° 26.5′ N 37° 43.8′ E	**Fl.(3)W.** period 10s	36 **11**			
30688 *D 7295.03*	Masamirit, E. side.	18° 49.8′ N 38° 45.6′ E	**Fl.W.** period 10s fl. 1s, ec. 9s	86 **26**	10	Red metal framework tower.	
30692 *D 7295.025*	Difnein Island.	16° 37.2′ N 39° 19.4′ E	**Fl.(2)W.** period 10s	144 **44**	10	White metal tower and tripod, black bands; 126.	Reserve light F.W. 7M.
30696 *D 7295.024*	Sheik al Abu Island.	16° 01.9′ N 39° 26.2′ E	**Fl.W.** period 10s fl. 1s, ec. 9s	61 **19**	9	White framework tower, black band; 56.	Visible 277°-187°.
	MASSAUA ISLAND:						
30700 *D 7295.023*	-Ras Mudur.	15° 36.7′ N 39° 28.9′ E	**Iso.W.** period 4s	85 **26**	14	Black round metal tower, white bands; 72.	Visible 150°-310°.
30704 *D 7295.022*	-S. breakwater, head.	15° 36.9′ N 39° 28.8′ E	**Fl.R.** period 3s fl. 1s, ec. 2s	23 **7**	7	White concrete tower, red bands; 8.	Traffic signals 0.2 mile SW.
30708 *D 7295.021*	-Abd El Kader, head of breakwater, N. side of entrance.	15° 37.0′ N 39° 28.9′ E	**Fl.G.** period 3s fl. 1s, ec. 2s	22 **7**	7	White concrete tower, green bands; 16.	
30720 *D 7295.02*	-Harbor Range, front.	15° 36.6′ N 39° 28.2′ E	**F.R.**	40 **12**	6	White metal framework tower, black bands, white square concrete base; 33.	Visible 228°30′-258°30′.
30724 *D 7295.019*	--Rear, 128 meters 243°30′ from front.	15° 36.6′ N 39° 28.1′ E	**F.R.**	57 **17**	8	White metal framework tower, black bands, white square concrete base; 50.	Visible 239°30′-247°30′.
30728 *D 7295.018*	Madote Island, SW. part.	15° 34.7′ N 39° 45.8′ E	**Fl.W.** period 5s fl. 1s, ec. 4s	49 **15**	9	White metal framework tower, black bands; 43.	
30732 *D 7295.017*	Assarka Island.	15° 32.2′ N 39° 55.1′ E	**Fl.W.** period 2s fl. 0.5s, ec. 1.5s	32 **10**	9	White metal framework tower, black bands; 25.	
30736 *D 7295.016*	Shumma Island, S. head.	15° 31.6′ N 40° 00.3′ E	**Fl.(3)W.** period 20s fl. 0.7s, ec. 1.5s fl. 0.7s, ec. 1.5s fl. 0.7s, ec. 14.9s	108 **33**	9	White round metal tower; 72.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			RED SEA				
30740	*Gizan N. Light Buoy.*	16° 56.6′ N 41° 17.6′ E	**Iso.W.** period 8s			SAFE WATER RW, pillar, topmark.	
	RACON		**G(– – •)**		10		(3 & 10cm).
30743 *D 7299.565*	Al Baghlah.	16° 57.1′ N 41° 24.3′ E	**Fl.(2)W.** period 10s	23 **7**	5	White beacon.	
30744 *D 7299.56*	-Off SW. end.	16° 56.7′ N 41° 23.6′ E	**Fl.W.** period 4s	39 **12**	10	Tripod; 39.	
30748 *D 7299.57*	Gizon, Middle Beacon.	17° 16.9′ N 41° 33.5′ E	**Fl.(3)W.** period 12s		12	Red daymark.	
	RACON		**N(– •)** period 90s		10		(3cm).
30752 *D 7299.58*	-Ghurab.	17° 06.4′ N 42° 04.0′ E	**Fl.W.** period 4s		10	Red beacon.	
	-RACON		**B(– • • •)** period 90s		10		(3cm).
30756 *D 7299.74*	Gizan Harbor Range, front.	16° 53.0′ N 42° 32.3′ E	**Q.R.**				
30760 *D 7299.741*	-Rear, 300 meters 096°30′ from front.	16° 52.9′ N 42° 32.4′ E	**Fl.R.** period 2s				
30768 *D 7299.72*	-N. breakwater.	16° 53.1′ N 42° 31.7′ E	**Q.R.**	26 **8**		Red metal framework tower.	
30772 *D 7299.73*	-S. breakwater.	16° 53.0′ N 42° 31.5′ E	**Q.G.**	23 **7**		Green metal framework tower.	2 Mo.(U)W. mark end of pier 1.7 miles SE.
30776 *D 7299.7*	-Small craft harbor, N. breakwater, head.	16° 53.8′ N 42° 32.1′ E	**Fl.R.** period 6s		5		
30780 *D 7299.71*	--S. breakwater, head.	16° 53.7′ N 42° 32.1′ E	**Fl.G.** period 6s		5		
30784 *D 7300*	Dawharab.	16° 19.5′ N 41° 58.2′ E	**Fl.W.** period 4s	49 **15**	10	White daymark.	**Radar reflector.**
30788 *D 7299.6*	**Mazarkiff Island.**	16° 34.6′ N 42° 21.7′ E	**Fl.(3)W.** period 12s		**15**	Red tripod daymark.	
30790 *D 7299.59*	Sulain Island.	16° 45.5′ N 42° 12.7′ E	**Fl.W.** period 10s			Beacon.	
30796 *D 7300.5*	Ugban Island.	15° 28.7′ N 42° 24.3′ E	**Fl.(2)W.** period 10s fl. 1s, ec. 1s fl. 1s, ec. 7s	85 **26**	12	White round tower.	
	KAMARAN:						
30800 *D 7300.58*	-Jebel Yemen.	15° 17.3′ N 42° 34.9′ E	**Fl.(3)W.** period 15s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 9s	131 **40**	10	White tubular framework tower, three concrete pillars; 59.	
30804 *D 7300.57*	-Ras el Salif.	15° 18.9′ N 42° 40.2′ E	**Q.(2)W.** period 3s	20 **6**	5	White round tower; 20.	**Radar reflector.**
30808 *D 7300.54*	-Kamaran Island, N. end.	15° 27.2′ N 42° 37.6′ E	**Fl.(2)W.** period 7.5s	26 **8**	5	White round tower, concrete base; 19.	
30812 *D 7300.55*	-Harrison Shoal.	15° 28.9′ N 42° 41.5′ E	**Fl.R.** period 5s	20 **6**	5	White round tower, piles, red topmark.	
30816 *D 7300.52*	-NW. Patches.	15° 27.6′ N 42° 33.3′ E	**Fl.R.** period 3s fl. 0.3s, ec. 2.7s	20 **6**	5	White round tower, piles, red daymark.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			RED SEA				
30820 *D 7300.53*	-Lansdown Shoal.	15° 31.1′ N 42° 32.9′ E	**Fl.G.** period 3s fl. 0.3s, ec. 2.7s	20 **6**	5	White round tower, piles, black daymark.	
30824 *D 7300.56*	Khawbah, fishing harbor.	15° 31.7′ N 42° 44.5′ E	**Fl.R.** period 3s fl. 0.5s, ec. 2.5s				
30828 *D 7300.51*	-Iqban Saghir.	15° 25.1′ N 42° 31.4′ E	**Fl.Y.** period 5s fl. 0.5s, ec. 4.5s	16 **5**	7	Black round tower, red bands.	
30828.5 *D 7300.59*	As Salif Approach, Rashshah.	15° 10.6′ N 42° 34.2′ E	**Fl.W.** period 7s	29 **9**	6	Metal framework tower, concrete pillars, white rectangular daymark, black top; 26.	
30829 *D 7300.61*	Zubair Islands, Center Peak Island.	15° 01.0′ N 42° 09.8′ E	**Fl.W.** period 10s	505 **154**	12	Concrete tower; 46.	
30832 *D 7295.015*	Umm es Sahrig Island.	15° 04.6′ N 40° 30.2′ E	**Fl.W.** period 8s fl. 0.5s, ec. 7.5s	88 **27**	9	White metal framework tower, black bands; 56.	
30840 *D 7295.014*	Sha′b Shakhs.	14° 39.0′ N 41° 06.8′ E	**Fl.(2)W.** period 22s	125 **38**	9	White metal tower, white tripod, black band; 121.	
30842 *D 7300.83*	Hanish Al Kabir, NE. end.	13° 46.3′ N 42° 47.1′ E	**Fl.(2)W.** period 12s		14	Red framework tower, white top; 33.	
	AL MOCHA:						
30844 *D 7300.86*	-Mokha, Range, front.	13° 18.7′ N 43° 14.1′ E	**V.Q.W.**		9		
30848 *D 7300.861*	--Rear, 370 meters 137° from front.	13° 18.5′ N 43° 14.2′ E	**Iso.W.** period 2s		9		
30852 *D 7300.85*	-Breakwater, head.	13° 18.9′ N 43° 13.6′ E	**Fl.G.** period 3s		4		
	BAIA DI ASSAB:						
30856 *D 7295*	-Ras Fatma.	13° 02.5′ N 42° 52.4′ E	**Fl.(3)W.** period 26s	95 **29**	10	Black round masonry tower, white bands; 89.	Reserve light F.W. 7M.
30860 *D 7295.013*	-Ras Gombo.	13° 01.4′ N 42° 44.9′ E	**Fl.(2)W.** period 10s	75 **23**	11	White tower, black bands; 43.	Reserve light F.W. 7M.
30864 *D 7295.01*	-Detached breakwater, N. head.	13° 00.1′ N 42° 45.2′ E	**Fl.R.** period 3s	15 **5**	5	White round tower, red bands.	
30868 *D 7295.005*	--S. head.	12° 59.7′ N 42° 45.0′ E	**Q.G.**	15 **5**	5	White round tower, green bands.	
30872 *D 7295.012*	-N. jetty, head.	13° 00.1′ N 42° 45.1′ E	**F.G.**	15 **5**	5	White round tower, green bands.	
30876 *D 7300.7*	Fishing harbor.	14° 46.9′ N 42° 56.7′ E	**Q.(2)G.** period 6s				
30892 *D 7300.8*	Abu Ali Islands.	14° 04.7′ N 42° 48.9′ E	**Fl.(2)W.** period 10s	340 **104**	13	White square building; 30.	
	BARIM (PERIM):						
30896 *D 7300.9*	-Balfe Point, W. extremity of island.	12° 39.4′ N 43° 23.2′ E	**Fl.W.** period 4s	44 **13**	11	Stone tower, black lantern; 26.	Visible 343°-192°. **AIS.**
30900 *D 7300.95*	**-High Light.**	12° 39.3′ N 43° 25.9′ E	**Fl.(4)W.** period 15s fl. 0.2s, ec. 2.1s fl. 0.2s, ec. 2.1s fl. 0.2s, ec. 2.1s fl. 0.2s, ec. 7.9s	278 **85**	**24**	Gray stone tower, embattled wall, white lantern; 81.	**AIS.**

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			GULF OF ADEN				
30902 *D 7318*	**Ra's al Hadd.**	22° 32.0′ N 59° 47.9′ E	**Fl.W.** period 10s fl. 0.9s, ec. 9.1s	138 **42**	**18**	Red and white metal framework tower; 125.	
	RACON		**T(−)**		**25**		(3 & 10cm).
30903 *D 7316*	-Masirah AVIATION LIGHT.	20° 40.3′ N 58° 53.3′ E	**F.R.**	89 **27**	8	Control tower.	F.R. lights on radio masts NE. and W.
30903.2 *D 7316.2*	-Ra's Hilf, Milcon, jetty, SW. corner.	20° 41.2′ N 58° 52.2′ E	**Fl.(3)R.** period 10s	23 **7**	3	Metal post; 13.	R. lights shown on dolphins close N. and S.
30903.4 *D 7317*	-Hilf, Fish factory, breakwater, N. head.	20° 39.0′ N 58° 51.9′ E	**Fl.G.** period 5s	20 **6**	4	Gray metal post; 10.	
30903.6 *D 7317.2*	--N. dolphin.	20° 39.0′ N 58° 51.8′ E	**Fl.R.** period 3s	26 **8**	3	Gray metal post; 10.	Fl.Y. 3s marks walkway. Fl.(2)R. 5s shown on dolphin SW. Fl.Y. 5s shown on inner jetty SW.
30903.8 *D 7317.7*	-Ras an Nuqdah.	20° 44.5′ N 58° 44.9′ E	**Fl.(2)W.** period 6s	26 **8**	5	Gray metal post; 10.	
30904 *D 7313*	**Nishtun Port.**	15° 49.2′ N 52° 11.9′ E	**Fl.W.** period 9s fl. 1s, ec. 8s	138 **42**	**18**	Red tower, white band; 36.	
30908 *D 7313.2*	-Breakwater, head.	15° 49.2′ N 52° 11.7′ E	**Fl.R.** period 3s fl. 1s, ec. 2s	16 **5**	4	Concrete pillar; 7.	
	PORT SALALAH:						
30909 *D 7314*	-Breakwater, head.	16° 57.0′ N 54° 01.8′ E	**Iso.W.** period 4s	43 **13**	9	Gray metal post; 36.	
30910 *D 7314.08*	-Container Berth, E. end, No 6.	16° 57.1′ N 54° 01.2′ E	**Iso.G.** period 4s	20 **6**	3	Gray metal post; 10.	Range 2M by day.
30910.5 *D 7314.5*	--W. end.	16° 56.6′ N 54° 00.0′ E	**Fl.Y.** period 5s	7 **2**	3		
30911 *D 7314.2*	-Inner Channel, 234°12′.	16° 56.1′ N 54° 00.3′ E	**Dir.W.R.G.**	131 **40**	5	Gray metal framework tower; 6.	F.G. 228°12′-232°49′, F.W.-235°49′, F.R.-240°12′. Range 2M by day.
30911.5 *D 7314.45*	-Berth No 23/24.	16° 56.4′ N 54° 00.4′ E	**Fl.R.** period 5s	20 **6**	3	Gray metal post; 10.	Range 2M by day.
30911.6 *D 7314.4*	-Inner breakwater, head.	16° 56.5′ N 54° 00.7′ E	**Iso.R.** period 4s		5	Red steel beacon, red square daymark; 10.	
30911.7 *D 7313.95*	-Liquid terminal.	16° 56.8′ N 54° 01.6′ E	**Fl.R.** period 3s		3	Red steel beacon, red square daymark; 10.	
30913.6 *D 7314.3*	-Main Channel, 279°.	16° 57.7′ N 53° 59.9′ E	**Dir.W.R.G.**	49 **15**	10	Gray metal framework tower; 39.	F.G. 277°49′-278°30′, Al.W.G.-278°49′, F.W.-279°49′, Al.W.R.-280°, F.R.-280°49′. Range 4M by day.
30913.7 *D 7314.6*	-Fishery Harbor, S. breakwater.	16° 57.7′ N 54° 00.2′ E	**L.Fl.R.** period 8s	20 **6**	4	Gray metal post in cage; 7.	
30913.8 *D 7314.7*	--N. breakwater.	16° 57.7′ N 54° 00.1′ E	**L.Fl.G.** period 8s	20 **6**	4	Gray metal post in cage; 7.	
30913.9 *D 7314.55*	-**Ra's Raysut.**	16° 55.8′ N 54° 00.3′ E	**Fl.W.** period 10s	161 **49**	**20**	Gray tower, white lantern; 33.	**AIS** (MMSI No 004610009).
30914 *D 7315*	Marbat.	16° 59.4′ N 54° 41.2′ E	**Fl.G.** period 9s	23 **7**	5	Green metal post; 7.	
30920 *D 7312*	**Al Mukalla.**	14° 31.3′ N 49° 08.8′ E	**Fl.W.** period 5s		**15**	White round tower, green bands.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			GULF OF ADEN				
30921 *D 7312.2*	-N. breakwater, head.	14° 31.4′ N 49° 08.9′ E	**L.Fl.R.** period 10s				
30923 *D 7311.23*	**Balhaf.**	13° 58.9′ N 48° 11.2′ E	**Fl.W.** period 5s	295 **90**	**20**		
	RACON		**B(– • • •)**				
	ADEN:						
30928 *D 7311*	-Airport AVIATION LIGHT.	12° 52.4′ N 45° 00.3′ E	**Oc.R.** period 2s	236 **72**	10		Reserve light F.R.
30932 *D 7311.2*	--Airport, N.W. AVIATION LIGHT.	12° 51.1′ N 45° 02.9′ E	**Oc.R.** period 2s	180 **55**	10		
30936 *D 7304*	**-Ras Marshag.**	12° 45.8′ N 45° 03.2′ E	**Oc.W.** period 5s lt. 3s, ec. 2s	244 **74**	**24**	White tower, black band; 85	Obscured westward by Ras Taih signal station. **AIS.**
30940 *D 7308*	**-Elephants Back.**	12° 45.9′ N 44° 59.3′ E	**Fl.W.R.** period 2.5s fl. 0.2s, ec. 2.3s	188 **57**	**24**	White round stone building; 13.	R. 306°-322°, W.-061°, R.-119°. **AIS.**
30944 *D 7309*	-Ras Marbut, breakwater, head.	12° 47.4′ N 44° 58.2′ E	**L.Fl.G.** period 5s fl. 2s, ec. 3s		10	Green fiberglass tower.	
30945 *D 7310*	-Inner Harbor, Aden Gulf Terminal, head.	12° 48.0′ N 45° 00.1′ E	**Fl.R.G.** period 4s		4	Metal post.	R. 036°30′-126°30′, G.-216°30′.
30948 *D 7301*	-Jazirat Salil.	12° 44.3′ N 44° 55.0′ E	**Fl.(2)R.** period 15s	65 **20**	3	White tower; 13.	
30949 *D 7302.3*	-Breakwater.	12° 45.9′ N 44° 55.3′ E	**L.Fl.R.** period 5s fl. 2s, ec. 3s		10	Red metal column; 20.	
30949.1 *D 7303*	-Pier, head, N.	12° 46.0′ N 44° 55.0′ E	**F.R.**		3	Post; 7.	
30949.2 *D 7303.2*	--S.	12° 46.0′ N 44° 55.0′ E	**F.G.**		3	Post; 7.	
30950 *D 7302*	-Range, front.	12° 47.1′ N 44° 53.6′ E	**Iso.G.** period 2s	33 **10**	10	Metal framework tower, black double diamond topmark, white bands, 59.	Obstruction lights on masts 2.5 miles NNE.
30951 *D 7302.1*	--Rear, 0.5 mile 300° from front.	12° 47.3′ N 44° 53.1′ E	**Iso.G.** period 2s	85 **26**	10	Metal framework tower, black double diamond topmark, white bands, 85.	Synchronized with front.
30952 *D 7272*	**Ras Bir.**	11° 58.9′ N 43° 21.8′ E	**Fl.(2)W.** period 10s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	243 **74**	**20**	White tower, red top; 164.	
30956 *D 7274*	-Obock Range, front.	11° 58.8′ N 43° 17.7′ E	**Q.W.**	98 **30**	5	Black and white checkered tower; 26.	
30960 *D 7274.1*	--Rear, about 700 meters 337°18′ from front.	11° 59.2′ N 43° 17.6′ E	**Q.W.**	131 **40**	5	White tower, black bands; 23.	
30964 *D 7273*	Obock.	11° 57.6′ N 43° 18.1′ E	**Fl.R.** period 4s	10 **3**	8	White square tower, gray top.	
30968 *D 7275*	Ile Moucha, NE. point.	11° 43.8′ N 43° 12.7′ E	**Fl.(3)R.** period 12s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 6s	66 **20**	10	Metal framework tower, dwelling; 56.	
30970 *D 7275.5*	Air France.	11° 44.7′ N 43° 10.2′ E	**Q.W.**		5	N. CARDINAL BY, beacon, topmark.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			GULF OF ADEN				
30972 *D 7276*	Ile Maskali, W. point.	11° 42.8′ N 43° 09.0′ E	**Fl.(2)W.** period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	79 **24**	10	Red metal tower; 66.	May be obscured by sandstorms.
	TADJOURA (F.):						
30980 *D 7294*	-Entrance Range, front, L-shaped jetty, head.	11° 47.1′ N 42° 52.9′ E	**Q.G.**		2		
30984 *D 7294.1*	--Rear, near root, about 120 meters 002°36′ from front.	11° 47.1′ N 42° 52.9′ E	**Q.G.**		2		
	DJIBOUTI:						
30986 *D 7283.5*	-Doraleh Oil Jetty, W.	11° 36.2′ N 43° 04.7′ E	**V.Q.R.**		6		Three lit floating beacons close S.
30986.1 *D 7283.52*	--E.	11° 36.2′ N 43° 04.9′ E	**V.Q.R.**		6		
30988 *D 7280*	-Entrance Range, front, near Riviere Amboule.	11° 33.7′ N 43° 07.4′ E	**Q.W.**	66 **20**	**17**	White chevrons, panel, red top.	Intensified 181°-187°. May be obscured by sandstorms.
30992 *D 7280.1*	**--Fort Ayabele,** rear, 1020 meters 184°24′ from front.	11° 33.2′ N 43° 07.4′ E	**Q.W.**	105 **32**	**19**	Panel, white bands, red top.	Intensified 181°-187°. May be obscured by sandstorms.
30996 *D 7286*	-Port du Heron Range, front.	11° 36.9′ N 43° 08.7′ E	**Q.R.**			Metal framework tower.	
31000 *D 7286.1*	--Rear, 210 meters 073°54′ from front.	11° 36.9′ N 43° 08.8′ E	**Q.R.**			Metal framework tower.	
31004 *D 7285*	-Le Heron.	11° 36.7′ N 43° 07.9′ E	**Fl.R.** period 4s		7	Red beacon.	Visible 268°-118°.
31008 *D 7284*	-Recif d'Ambouli, near E. end.	11° 36.7′ N 43° 07.3′ E	**Fl.G.** period 4s fl. 1s, ec. 3s	10 **3**	2	White pyramid.	
31012 *D 7289*	-SW. corner Mole du Fontainbleau.	11° 36.4′ N 43° 07.8′ E	**F.R.**	20 **6**	2	Metal framework tower.	
31032 *D 7288*	-Banc des Salines, off E. end.	11° 36.1′ N 43° 07.6′ E	**Fl.(3)G.** period 6s	10 **3**	2	White square beacon.	
31036 *D 7283*	-AVIATION LIGHT.	11° 33.1′ N 43° 09.0′ E	**Fl.(3+1)W.** period 7s fl. 0.3s, ec. 0.4s fl. 0.3s, ec. 0.4s fl. 0.3s, ec. 2.5s fl. 0.3s, ec. 2.5s	82 **25**	**22**	Hangar; 49.	Occasional.
	BERBERA:						
31040 *D 7264*	-Tamar Point.	10° 26.6′ N 44° 58.9′ E	**Fl.W.** period 5s fl. 1s, ec. 4s	74 **23**	8	White column, black bands.	
31044 *D 7263*	-South of bay.	10° 25.2′ N 44° 58.5′ E	**Oc.W.** period 4s lt. 3s, ec. 1s	71 **22**	7	White tower, black bands.	
31048 *D 7266*	-Customs pier Range, front.	10° 26.6′ N 45° 00.3′ E	**Q.R.**	43 **13**	2	Red and white framework tower; 39.	
31052 *D 7266.1*	--Rear, 190 meters 068° from front.	10° 26.7′ N 45° 00.4′ E	**Iso.R.** period 4s	56 **17**	2	Red and white framework tower; 52.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			GULF OF ADEN				
	BENDER CASSIM (BOSASO):						
31056 *D 7260*	-Range, front.	11° 17.3′ N 49° 10.8′ E	**Q.R.**		8	White post, red triangular daymark point up.	
31060 *D 7260.1*	--Rear, about 200 meters 138° from front.	11° 17.2′ N 49° 10.8′ E	**Iso.R.** period 4s		10	White post, red triangular daymark point down.	
31064 *D 7258*	Candala.	11° 28.4′ N 49° 52.4′ E	**L.Fl.(3)W.** period 30s fl. 2s, ec. 5s fl. 2s, ec. 5s fl. 2s, ec. 14s		8		
31068 *D 7256*	Alula, on residence.	11° 57.9′ N 50° 45.2′ E	**Fl.(2)W.** period 16s fl. 1s, ec. 2s fl. 1s, ec. 12s	51 **16**	12	White metal framework tower, dwelling; 44.	

Section 20

East Coast of Africa

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			SOMALIA				
31072 *D 7246*	**Cape Guardafui.**	11° 50.2′ N 51° 16.8′ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	864 **263**	**18**	Round masonry tower; 64.	
31076 *D 7242*	Ras Hafun, E. point.	10° 26.6′ N 51° 24.8′ E	**Fl.(2)W.** period 35s	351 **107**	4	White column, white building, red lantern; 42.	Visible 146°-020°. Obscured within 0.8 mile 230°-310°.
31080 *D 7239*	Bandar Beila.	9° 29.1′ N 50° 48.9′ E	**F.W.**		8		
31084 *D 7238*	Eil Marina.	7° 58.0′ N 49° 50.7′ E	**F.R.**	328 **100**	5	Black column, white striped; 16.	
31088 *D 7236*	Obbia (Obiat).	5° 21.2′ N 48° 31.4′ E	**Fl.(3)W.** period 10s	105 **32**	10	Black square hut, white bands; 33.	
31092 *D 7230*	Cadale (Itala), E. corner of residence.	2° 45.7′ N 46° 19.7′ E	**Fl.W.** period 3s fl. 0.3s, ec. 2.7s	39 **12**	8	Gray iron framework tower; 7.	
	MUQDISHO (MOGADISHU):						
31096 *D 7218*	**-Muqdisho.**	2° 02.3′ N 45° 20.0′ E	**Fl.W.** period 12.5s fl. 1s, ec. 11.5s	243 **74**	**32**	White masonry tower; 33.	Four F.R. 0.2M SW.
31100 *D 7220*	-Betel Raz Range, front.	2° 01.8′ N 45° 20.4′ E	**F.R.**	49 **15**	5	White tower, black bands.	
31104 *D 7220.1*	--Rear, 180 meters 311° from front.	2° 01.9′ N 45° 20.4′ E	**F.R.**	118 **36**	5	White truncated pyramid, black bands; 26.	
31108 *D 7221*	-Second Range, front.	2° 01.6′ N 45° 20.2′ E	**Q.W.**	62 **19**		Red and white checkered tower, triangular daymark point down.	
31112 *D 7221.1*	--Rear, 140 meters 274° from front.	2° 01.6′ N 45° 20.1′ E	**Q.W.**			Metal post, concrete pillar; 20.	
31116 *D 7224*	-Third Range, front.	2° 01.4′ N 45° 20.0′ E	**Q.W.**			Metal post, concrete pillar; 20.	
31120 *D 7224.1*	--Rear, 90 meters 245° from front.	2° 01.4′ N 45° 20.0′ E	**F.R.**			Red and white column, gallery.	
31124 *D 7226*	-Port office.	2° 02.2′ N 45° 21.3′ E	**Iso.R.** period 6s	56 **17**	8	Black metal framework tower, white diagonal stripes; 7.	
31128 *D 7223*	-S. breakwater, head.	2° 01.5′ N 45° 20.5′ E	**Oc.R.** period 6s	36 **11**	7		
31132 *D 7222*	-Breakwater, head.	2° 01.8′ N 45° 21.0′ E	**Fl.G.** period 2s fl. 0.5s, ec. 1.5s	33 **10**	5	Beacon; 20.	
	MERCA:						
31136 *D 7212*	-Range, front, behind Mosque of Sceich Ozman.	1° 43.0′ N 44° 46.0′ E	**F.G.**	33 **10**	4	White square concrete tower; 21.	Obscured when bearing less than 315°.
31140 *D 7212.1*	--Rear, NW. corner of city, about 131 meters 343° from front.	1° 42.7′ N 44° 46.3′ E	**L.Fl.W.** period 8.5s fl. 2s, ec. 6.5s	115 **35**	**20**	White round concrete tower; 56.	
31144 *D 7210*	Punta Agarre Range, front.	1° 41.3′ N 44° 44.8′ E	**F.R.**	39 **12**	8	White pyramid, black stripes; 13.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			SOMALIA				
31148 *D 7210.1*	-El Mugne (Munghia), rear, about 2.2 kilometers 240° from front.	1° 40.5′ N 44° 43.2′ E	**F.R.**	49 **15**	7	Black metal framework tower, white stripes; 26.	
31152 *D 7206*	Brava, about 1353 meters 120° from beacon on summit.	1° 07.0′ N 44° 01.9′ E	**Fl.W.** period 5s fl. 1s, ec. 4s	177 **54**	10	White pyramidal tower; 25.	
31156 *D 6852*	Fiume Giuba, N. side, about 686 meters E. of village of Giumbo.	0° 15.0′ S 42° 37.7′ E	**Fl.(2)W.** period 10s fl. 1s, ec. 2s fl. 1s, ec. 6s	121 **37**	8	Black square masonry tower, white truncated pyramid; 30.	
	BAIA DI CHISIMAYU:						
31160 *D 6842*	-Isola dei Serpenti.	0° 22.8′ S 42° 33.3′ E	**Fl.W.** period 4s	115 **35**	12	Round masonry tower on white square dwelling.	
			F.R.		5		Visible 250°30′-262°30′.
31161 *D 6842.9*	-Passo Nord Range, front, 5.75 miles 246°35′ to common rear.	0° 22.4′ S 42° 33.5′ E	**Oc.G.** period 2s			White beacon.	
31161.5 *D 6843*	--Common rear.	0° 24.7′ S 42° 28.3′ E	**Q.G.**			Black and white beacon.	
31162 *D 6843.1*	-Passo di Levante Range, front, 0.77 mile 269°25′ to common rear.	0° 24.7′ S 42° 29.0′ E	**Oc.G.** period 2s			Black and white beacon.	
31163 *D 6844*	-Passo Interno Range, front.	0° 22.7′ S 42° 30.9′ E	**Oc.G.** period 2s	89 **27**		Black and white beacon.	
31163.1 *D 6844.1*	--Rear, 360 meters 325°15′ from front.	0° 22.6′ S 42° 30.8′ E	**Q.G.**			Black and white beacon.	
31164 *D 6845*	-Harbor entrance Range, front.	0° 21.9′ S 42° 32.6′ E	**Oc.G.** period 2s				
31164.1 *D 6845.1*	--Rear, 830 meters 008° from front.	0° 21.5′ S 42° 32.6′ E	**Q.G.**				
31165 *D 6846*	-Pier, head.	0° 23.2′ S 42° 32.5′ E	**Q.R.**		3	Black and white checkered tower, red lantern; 10.	
31165.2 *D 6846.2*	-Wharf, NW. head.	0° 23.2′ S 42° 32.6′ E	**F.R.**				
31165.4 *D 6846.4*	--Inner elbow.	0° 23.3′ S 42° 32.7′ E	**F.R.**				
31165.6 *D 6846.6*	--Root.	0° 23.2′ S 42° 32.8′ E	**F.R.**				
31166 *D 6847*	-Range, front.	0° 26.5′ S 42° 28.4′ E	**Oc.G.** period 2s			White beacon.	
31166.1 *D 6847.1*	--Rear, 0.68 mile 234°25′ from front.	0° 26.9′ S 42° 27.8′ E	**Q.G.**			White beacon.	
31172 *D 6848*	-Isola Pescicane.	0° 26.3′ S 42° 30.6′ E	**Fl.R.** period 4s	22 **7**	6		
			KENYA				
31176 *D 6832*	Shela Range, front.	2° 18.0′ S 40° 54.7′ E	**Q.W.**	20 **6**	6	Black concrete column, white base.	
31180 *D 6832.1*	-Rear, 380 meters 014°58′ from front.	2° 17.8′ S 40° 54.8′ E	**Fl.W.** period 8s	184 **56**	8	Black tower, white bands; 30.	Visible 244°-064°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			KENYA				
31188 *D 6828*	Kipini.	2° 31.8′ S 40° 31.8′ E	**Fl.W.** period 7s fl. 0.5s, ec. 6.5s	95 **29**	10	White fiberglass tower; 30.	
31192 *D 6824*	Malindi, 168 meters 190° from Vasco da Gama's Pillar.	3° 13.6′ S 40° 07.7′ E	**Fl.W.** period 10s fl. 1s, ec. 9s	83 **25**	14	White framework tower; 44.	F.R. range lights, 212°30′, shown 0.6 mile NW.
31196 *D 6825*	-About 1372 meters 002° from Malindi.	3° 12.8′ S 40° 07.7′ E	**Q.R.**	18 **5**	9	White concrete beacon; 16.	Visible when bearing more than 240°.
31200 *D 6820*	Kilifi Creek.	3° 38.0′ S 39° 52.0′ E	**Fl.W.** period 8s	130 **40**	9	White metal framework tower, white topmark; 26.	
31204 *D 6818*	Cannon Point.	3° 57.7′ S 39° 45.8′ E	**Fl.W.** period 10s	63 **19**	11	White square concrete structure, black bands; 44.	
	MOMBASA:						
31208 *D 6772*	-Ras Serani Range, front.	4° 04.3′ S 39° 40.8′ E	**Q.W.**	85 **26**	8	White tower; 39.	
31212 *D 6772.1*	--Rear, about 330 meters 301°45′ from front.	4° 04.2′ S 39° 40.7′ E	**Fl.W.** period 5s fl. 1s, ec. 4s	147 **45**	**18**	White stone tower, black bands; 108.	Visible 214°-034°.
31216 *D 6774*	-Ras Kiberamini Range, front.	4° 02.8′ S 39° 40.7′ E	**Q.W.**		8	White column, black bands.	Visible 256°-076°.
31220 *D 6774.1*	--Rear, 490 meters 346° from front.	4° 02.6′ S 39° 40.6′ E	**Fl.W.** period 2s		8	White column.	Visible 256°-076°.
31224 *D 6775*	-Ras Matani.	4° 03.9′ S 39° 40.9′ E	**Q.R.**		4	White beacon; 20.	
31228 *D 6784*	-Entrance Range, front.	4° 05.0′ S 39° 40.2′ E	**Q.R.**	37 **11**	3	Red and white fiberglass tower.	Visible 148°-328°.
31232 *D 6784.1*	--Rear, 354 meters 238° from front.	4° 05.1′ S 39° 40.0′ E	**Fl.R.** period 2s	52 **16**	3	Red and white fiberglass tower.	Visible 148°-328°.
31236 *D 6796*	-Likoni.	4° 05.0′ S 39° 40.1′ E	**Dir.W.R.G.** period 5s	69 **21**	2	White obelisk; 39.	Iso.R. 122°30′-127°30′, Iso.W.-130°30′, Iso.G.-135°30′.
31240 *D 6794*	-Mtongwe Range, front.	4° 03.7′ S 39° 38.5′ E	**Q.W.**	69 **21**	6	White column.	
31244 *D 6794.1*	--Rear, 250 meters 309° from front.	4° 03.6′ S 39° 38.4′ E	**Fl.W.** period 2s	93 **28**	6	White obelisk.	Visible 220°-040°.
31252 *D 6813*	-Ras Kikaangoni.	4° 03.0′ S 39° 38.3′ E	**Fl.R.** period 3s	14 **4**		Red cylinder, metal pole.	
31256 *D 6812*	-Ras Mchangamwe Range, front.	4° 02.5′ S 39° 38.4′ E	**Q.R.**		2	Building.	
31260 *D 6812.1*	--Rear 200 meters 343° from front.	4° 02.4′ S 39° 38.3′ E	**Fl.W.** period 2s		6	Stone beacon; 62.	Visible 253°-073°.
31264 *D 6812.5*	-No 13.	4° 02.6′ S 39° 38.4′ E	**Q.(6)+L.Fl.W.** period 15s			S. CARDINAL Black and yellow metal pole.	
31267 *D 6814*	-Shimanzi Oil Terminal, front.	4° 02.7′ S 39° 38.5′ E	**Fl.(3)R.**			White rectangular metal panel.	
31267.1 *D 6814.1*	--Rear, 350 meters 071° from front.	4° 02.6′ S 39° 38.7′ E	**Fl.W.** period 2s			White concrete column.	Visible 061°-341°.
31268 *D 6770*	Chale Island, SW. extremity.	4° 26.8′ S 39° 32.0′ E	**Fl.(2)W.** period 20s fl. 1s, ec. 2s fl. 1s, ec. 16s	98 **30**	12	Silver metal framework tower.	
31272 *D 6769*	Pungutiayu.	4° 42.2′ S 39° 24.4′ E	**Fl.W.** period 2s fl. 0.3s, ec. 1.7s	52 **16**	10	White fiberglass tower, black bands; 52.	Visible 105°-025°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			TANZANIA				
	PEMBA ISLAND:						
31276 *D 6746*	**-Ras Kigomasha.**	4° 52.4′ S 39° 40.8′ E	**Fl.(4)W.** period 24s	125 **38**	**17**	Gray metal framework tower; 89.	Visible 009°-275°.
31280 *D 6751*	**-Matumbe Makupa.**	5° 24.3′ S 39° 33.9′ E	**Fl.(3)W.** period 20s fl. 0.8s, ec. 1.5s fl. 0.8s, ec. 1.5s fl. 0.8s, ec. 14.6s	107 **33**	**16**	White tower, red bands; 100.	
31284 *D 6748*	-Kohani Mkoani Channel Range, front.	5° 22.0′ S 39° 39.0′ E	**Q.R.**	12 **4**	5	Black structure, white bands; 20.	
31288 *D 6748.1*	--Rear, 82 meters 127°40′ from front.	5° 21.7′ S 39° 38.5′ E	**Fl.R.** period 6s	63 **19**	5	Black structure, white bands; 20.	Shown on request.
	TANGA BAY:						
31296 *D 6754*	-Ulenge Island Range, front.	5° 00.7′ S 39° 10.0′ E	**Q.W.**	38 **12**	11	White concrete tower; 48.	
31300 *D 6754.1*	--Rear, 320 meters 319° from front.	5° 00.3′ S 39° 10.0′ E	**L.Fl.W.** period 12s fl. 4.5s, ec. 7.5s	85 **26**	**15**	White square stone tower, black band; 85.	
31304 *D 6758*	-Ulenge Reef.	5° 02.4′ S 39° 09.8′ E	**Fl.G.** period 6s fl. 0.6s, ec. 5.4s	22 **7**		White concrete beacon.	
31308 *D 6756*	-Ninule Reef.	5° 03.5′ S 39° 11.9′ E	**Fl.R.** period 2s fl. 0.2s, ec. 1.8s	24 **7**		White concrete beacon, red band.	
31316 *D 6759.55*	-Tanga Island Range, front.	5° 03.5′ S 39° 06.7′ E	**Fl.W.** period 2s	35 **11**	7	White concrete tower.	
31316.1 *D 6759.56*	--Rear, 75 meters 234° from front.	5° 03.5′ S 39° 06.6′ E	**Fl.W.** period 7s		8		
31320 *D 6763*	-Inner Harbor.	5° 03.9′ S 39° 06.8′ E	**Q.R.**	13 **4**	5	White concrete tower.	
31324 *D 6761.4*	-Outer end of landing.	5° 04.0′ S 39° 06.0′ E	**F.R.**				
31328 *D 6759*	-Kwawa Reef Beacon.	5° 04.0′ S 39° 08.0′ E	**Fl.G.** period 2.5s fl. 0.5s, ec. 2s			White concrete beacon.	
31332 *D 6757*	-Ras Kazone Range, front.	5° 03.2′ S 39° 07.6′ E	**Fl.W.** period 1.5s fl. 0.3s, ec. 1.2s	28 **9**	10	White concrete tower; 38.	
31336 *D 6757.1*	--Rear, 560 meters 266° from front.	5° 03.3′ S 39° 07.3′ E	**Fl.W.** period 10s	94 **29**	9	Mast, white concrete tower, black stripe; 72.	Traffic signals.
	ZANZIBAR ISLAND:						
31340 *D 6742*	-Ras Nungwi.	5° 43.3′ S 39° 18.2′ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	60 **18**	13	White square tower, red lantern; 47.	Obscured when bearing less than 086°.
31344 *D 6740*	-Mwana Wa Mwana Island, N. extremity.	5° 45.3′ S 39° 13.2′ E	**Fl.W.** period 10s fl. 1s, ec. 9s	85 **26**	14	White square tower; 76.	
31356 *D 6738*	--Mangapwani, on cliff N. of village.	5° 57.3′ S 39° 10.9′ E	**Fl.W.** period 15s	116 **35**	9	White square tower, red base on south side; 76.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			TANZANIA				
	-Zanzibar Harbor:						
31368 *D 6732*	--Bet el Ras Range, on beach, front.	6° 07.4′ S 39° 12.8′ E	**Fl.R.** period 1.5s	20 **6**		Beacon; 20.	
31372 *D 6732.1*	---Rear, 230 meters 042° from front.	6° 07.3′ S 39° 12.9′ E	**Oc.R.** period 6s	40 **12**		Beacon; 42.	Visible 000°-085°.
31376 *D 6726*	--Marubi Palace Gardens Range, front.	6° 08.4′ S 39° 12.6′ E	**Q.W.**	32 **10**	8	White pyramidal stone tower; 20.	
31380 *D 6726.1*	---Rear, 384 meters 168° from front.	6° 08.6′ S 39° 12.6′ E	**Iso.W.** period 6s	93 **28**	8	White framework tower, white square stone tower; 42.	Visible 166°-170°.
31384 *D 6718*	**--Shangani.**	6° 09.6′ S 39° 11.4′ E	**F.W.**	145 **44**	**16**	Clock tower.	
31388 *D 6721*	--Boat camber, wharf, head.	6° 09.3′ S 39° 11.5′ E	**F.R.**	16 **5**	5	White metal column, black bands; 10.	
31392 *D 6722*	--Shangani, boat camber breakwater, head.	6° 09.2′ S 39° 11.5′ E	**F.G.**	20 **6**	3	Black metal framework tower, white concrete base.	
31404 *D 6706*	--SW. of Kiungani Mission Range, front.	6° 11.3′ S 39° 12.0′ E	**Q.W.**	30 **9**	8	White square metal framework tower, black stripe; 45.	
31408 *D 6706.1*	---Rear, 1006 meters 033° from front.	6° 10.9′ S 39° 12.3′ E	**Fl.W.** period 6s fl. 1s, ec. 5s	130 **40**	8	White beacon; 43.	
31416 *D 6704*	**-Chumbe.**	6° 16.8′ S 39° 10.6′ E	**Fl.W.** period 11s fl. 1s, ec. 10s	122 **37**	**16**	White square tower; 113.	Visible 299°-196°.
31424 *D 6702*	**-Pungume Island.**	6° 26.3′ S 39° 20.5′ E	**Fl.W.** period 3s fl. 0.2s, ec. 2.8s	85 **26**	**15**	White square tower, black stripes; 71.	
31428 *D 6700*	**Ras Makunduchi.**	6° 25.9′ S 39° 33.8′ E	**Fl.(2)W.** period 15s fl. 0.8s, ec. 1.5s fl. 0.8s, ec. 11.9s	145 **44**	**18**	White tower, red bands; 90.	
	DAR ES SALAAM:						
31431 *D 6673*	-Inner Makatumbe range LM7, front in line 051° with Outer Makatumbe rear light.	6° 47.7′ S 39° 19.9′ E	**Q.W.**	49 **15**			
31432 *D 6672*	-Outer Makatumbe.	6° 47.5′ S 39° 20.2′ E	**Fl.(3)W.** period 20s	96 **29**	**15**	White square tower, red bands; 95.	
	-Rear light LM8.		**Oc.W.**				
31436 *D 6674*	-Oyster Bay Range, outer anchorage, front.	6° 47.0′ S 39° 17.2′ E	**Q.W.**	65 **20**	12	White stone tower, red stripes; 29.	
31440 *D 6674.1*	--Rear, 400 meters 247° from front.	6° 47.0′ S 39° 17.0′ E	**Fl.W.** period 7.5s fl. 1.5s, ec. 6s	123 **37**	**17**	White stone tower, red stripe; 85.	
31444 *D 6684*	-Ras Rangoni Range LM3, front.	6° 48.9′ S 39° 18.8′ E	**Q.W.**	36 **11**		Red beacon.	
31448 *D 6684.1*	--Rear LM4, 260 meters 188° from front.	6° 49.1′ S 39° 18.8′ E	**Iso.W.**	72 **22**			
31451 *D 6698*	-Range LM11, front.	6° 49.2′ S 39° 17.3′ E	**Q.W.**	56 **17**			
31451.1 *D 6698.1*	--Rear LM12, 255 meters 333°42′ from front.	6° 49.1′ S 39° 17.3′ E	**Iso.W.**	82 **25**		Building.	
31453 *D 6697*	-Vijibweni Range LM9, front.	6° 51.3′ S 39° 18.3′ E	**Q.W.**	69 **21**			

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			TANZANIA				
31453.1 *D 6697.1*	--Rear LM10, 100 meters 153°42′ from front.	6° 51.3′ S 39° 18.4′ E	**Iso.W.**	89 **27**			
31476 *D 6694*	-Kurasini Range LM5, front.	6° 49.8′ S 39° 17.3′ E	**Q.W.**	118 **36**		Beacon, red triangular daymark point up.	
31480 *D 6694.1*	--Rear LM6, 240 meters 231° from front.	6° 49.9′ S 39° 17.2′ E	**Iso.W.**	144 **44**		Building.	
31484 *D 6668*	**Ras Kanzi,** S. of Ras Kimbiji.	7° 01.2′ S 39° 33.0′ E	**Fl.W.** period 10s		**17**	White tower, red bands; 33.	
31492 *D 6666*	**Ras Mkumbi.**	7° 38.5′ S 39° 54.0′ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	102 **31**	**16**	White square tower, red bands; 98.	
	LINDI RIVER:						
31500 *D 6654*	-Ras Shuka.	9° 58.9′ S 39° 48.8′ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	50 **15**	6	White tower; 20.	
31504 *D 6656*	-Entrance Range, front.	9° 59.5′ S 39° 42.8′ E	**Fl.W.** period 2s fl. 0.8s, ec. 1.2s	22 **7**	9	Gray concrete obelisk; 12.	
31508 *D 6656.1*	--Rear, 1000 meters 240° from front.	9° 59.7′ S 39° 42.3′ E	**L.Fl.W.** period 6s fl. 2s, ec. 4s	178 **54**	**15**	Gray wooden beacon; 30.	
31516 *D 6650*	Ras Msamgamkuu.	10° 12.5′ S 40° 14.0′ E	**Fl.W.** period 10s fl. 1s, ec. 9s	85 **26**	11	White metal framework tower; 68.	Visible 054°-290°.
31520 *D 6651*	Mtwara Harbor Range, front.	10° 15.0′ S 40° 11.8′ E	**Q.W.**	40 **12**	7	White framework tower; 30.	
31524 *D 6651.1*	-Rear, 225 meters 154° from front.	10° 15.1′ S 40° 11.9′ E	**Fl.W.** period 2.5s	63 **19**	9	White framework tower; 30.	
31528 *D 6653*	Ras Jandoni Range, front.	10° 15.6′ S 40° 11.5′ E	**Fl.W.** period 2s				
31532 *D 6653.1*	-Rear, 715 meters 189° from front.	10° 15.9′ S 40° 11.4′ E	**Fl.(2)W.** period 5s				
			MOZAMBIQUE				
31536 *D 6648*	**Cabo Delgado.**	10° 41.4′ S 40° 38.2′ E	**Fl.(2)W.** period 12s fl. 1.5s, ec. 2s fl. 1.5s, ec. 7s	138 **42**	**16**	White hexagonal concrete tower, dwelling; 118.	
31540 *D 6647*	Ilha Vamizi, E. point of island.	11° 00.6′ S 40° 42.9′ E	**Fl.(2)W.** period 6s fl. 0.3s, ec. 2s fl. 0.3s, ec. 3.4s	43 **13**	8	White round tower.	
31556 *D 6642*	Ilha Tambuzi.	11° 22.1′ S 40° 39.0′ E	**Fl.(2)W.** period 10s fl. 0.8s, ec. 1.2s fl. 0.8s, ec. 7.2s	121 **37**	11	White round concrete tower, black bands; 85.	
31560 *D 6641*	Ilheu Quero-Niuni.	11° 38.3′ S 40° 33.6′ E	**Fl.W.** period 4s fl. 0.4s, ec. 3.6s	30 **9**	6	White square tower.	**Radar reflector.**
31564 *D 6640*	Ilha Medjumbe, E. point.	11° 49.0′ S 40° 36.5′ E	**Fl.(2)W.** period 15s fl. 1s, ec. 2s fl. 1s, ec. 11s	105 **32**	10	White truncated conical concrete tower, gallery; 85.	
31568 *D 6636*	Ilha do Ibo, Mujaca Island, N. head.	12° 19.9′ S 40° 37.4′ E	**Fl.W.** period 12s fl. 0.6s, ec. 11.4s	59 **18**	10	White tower, dwelling; 49.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			MOZAMBIQUE				
31572 *D 6637*	-Porto do Ibo.	12° 20.7′ S 40° 34.9′ E	**Fl.R.** period 3s fl. 0.3s, ec. 2.7s	19 **6**	5	White tower, black band; 20.	
31576 *D 6634*	Ponta do Diabo.	12° 44.8′ S 40° 37.8′ E	**Fl.(2)W.** period 10s fl. 1s, ec. 1.5s fl. 1s, ec. 6.5s	27 **8**	10	White square masonry tower; 20.	
	BAIA DE PORTO AMELIA:						
31580 *D 6628*	-Ponta Said-Ali.	12° 55.7′ S 40° 30.7′ E	**Fl.G.** period 4s	33 **10**	5	White cubic base, red tower; 29.	
31584 *D 6630*	-Ponta Romero.	12° 57.0′ S 40° 30.3′ E	**Fl.R.** period 4s	26 **8**	5	White conical beacon; 16.	
31588 *D 6632*	-Ponta Mepira.	12° 57.8′ S 40° 28.9′ E	**Fl.R.** period 2s	17 **5**	5	Red round tower; 19.	
31592 *D 6624*	**-Ponta Maunhane.**	12° 58.3′ S 40° 35.3′ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	75 **23**	**16**	Black tower, white band, white square masonry base, white dwelling; 39.	
31596 *D 6622*	Punta Uifundo.	13° 24.1′ S 40° 34.3′ E	**Fl.(2)W.** period 16s fl. 0.8s, ec. 2.4s fl. 0.8s, ec. 12s	112 **34**	11	Red square framework tower; 69.	
31600 *D 6620*	Chaonde Point, Baia Almeida.	13° 42.2′ S 40° 32.7′ E	**Fl.W.** period 10s fl. 1s, ec. 9s	151 **46**	9	White square hut; 7.	
31604 *D 6618*	**Pinda.**	14° 12.6′ S 40° 42.6′ E	**Fl.(2)W.** period 10s	210 **64**	**24**	Black conical stone tower, dwelling, white bands, red top; 102.	
31608 *D 6611*	Cabo Melamo.	14° 24.7′ S 40° 48.3′ E	**Iso.W.** period 4s	32 **10**	14	White framework tower on square tower; 20.	**Radar reflector.**
	PORTO DE NACALA:						
31612 *D 6612*	-Ponta Sacamulo.	14° 28.1′ S 40° 40.0′ E	**Fl.G.** period 2s	26 **8**	5	White framework tower, square tower; 16.	Visible 163°-013°. **Radar reflector.**
31616 *D 6611.3*	-W. side entrance.	14° 27.1′ S 40° 38.7′ E	**Fl.(3)W.R.G.** period 9s	35 **11**	W. 12 R. 8 G. 8	White square framework tower, black top; 20.	G. 200°-233°, W.-241°, R.-271°.
31620 *D 6612.4*	-Nacala Range, front.	14° 29.0′ S 40° 40.9′ E	**Q.R.**	23 **7**	12	Tripod, red rectangular daymark, yellow stripe; 13.	
31624 *D 6612.5*	-Rear, 567 meters 155°30′ from front.	14° 29.3′ S 40° 41.0′ E	**Iso.R.** period 4s	125 **38**	12	Tripod, red rectangular daymark, yellow stripe; 10.	
31628 *D 6611.6*	-Fernao Veloso, on Punta Naarenque.	14° 27.5′ S 40° 40.5′ E	**Fl.R.** period 3s	26 **8**	6	White framework tower, square tower; 16.	Visible 357°-242°. **Radar reflector.**
31632 *D 6613*	-Ponta Zuani, on spit.	14° 30.0′ S 40° 40.2′ E	**Fl.R.** period 4s fl. 0.4s, ec. 3.6s	17 **5**	5	White three-pile concrete structure; 16.	
31636 *D 6614*	-Ponta Namuaxi.	14° 31.5′ S 40° 39.3′ E	**Fl.G.** period 4s	17 **5**	5	White three-pile concrete structure; 16.	Visible 178°-025°.
31640 *D 6610*	Ponta Onlungune, Janga.	14° 40.5′ S 40° 50.1′ E	**Fl.(3)W.** period 13.5s	46 **14**	10	White four-sided concrete framework tower, black bands; 39.	
	PORTO DE MOCAMBIQUE:						
31652 *D 6602*	-Ilheu de Sao Lourenco, No 1 Range, front.	15° 03.1′ S 40° 43.6′ E	**Fl.W.** period 3.4s fl. 0.4s, ec. 3s	10 **3**	14	Hut, white triangular daymark point up; 7.	Visible 232°-322°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			MOZAMBIQUE				
31656 *D 6602.1*	--Sancul, rear, 3.5 km. 260° from front.	15° 03.4′ S 40° 41.7′ E	**Fl.W.** period 4s fl. 0.2s, ec. 3.8s	70 **21**	5	Tower, pyramid; 52.	Visible 224°-284°.
31660 *D 6598*	-Entrance Range No 2, front.	15° 03.1′ S 40° 47.0′ E	**Q.W.**	45 **14**	6	White tower, pyramid; 46.	Visible 107°30′-167°30′.
31661 *D 6598.1*	**--Ilha de Goa,** rear, 410 meters 127° from front.	15° 03.2′ S 40° 47.2′ E	**Fl.(2)W.** period 12s	98 **30**	**16**	White square masonry tower, red bands, dwelling; 102.	Aeromarine light.
31672 *D 6606*	-Customhouse Pier, NW. side of Ilha de Mocambique.	15° 01.8′ S 40° 44.2′ E	**F.R.**	9 **3**	3	White tide gauge hut; 7.	
31676 *D 6606.1*	---Middle of pier.	15° 01.8′ S 40° 44.2′ E	**Fl.R.** period 4s fl. 0.4s, ec. 3.6s	9 **3**	3	White hut; 13.	In line with pierhead light indicates anchorage range.
31680 *D 6604*	-Capitania.	15° 02.0′ S 40° 44.1′ E	**F.G.**	50 **15**	5	White hut, piles; 49.	
31684 *D 6596*	Ponta Namalungo.	15° 38.2′ S 40° 24.9′ E	**Fl.(4)W.** period 15s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 7s	276 **84**	10	White square concrete framework tower; 62.	Visible 227°-029°. Reserve light F.W. 15M.
31688 *D 6592*	**Sangage.**	16° 00.1′ S 40° 07.7′ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	306 **93**	**19**	Dark red hexagonal concrete tower, white bands; 85.	
	PORTO DE ANTONIO ENES:						
31692 *D 6591*	-Parapato.	16° 13.6′ S 39° 54.7′ E	**Fl.W.** period 4s	220 **67**	9	White truncated conical tower, building; 26.	
31696 *D 6591.2*	-Baixo Monico.	16° 14.4′ S 39° 53.7′ E	**Fl.R.** period 3s fl. 0.3s, ec. 2.7s	13 **4**	4	White beacon, red bands.	
31700 *D 6591.4*	-Port office.	16° 14.0′ S 39° 54.1′ E	**Fl.(2)G.** period 6s	37 **11**	4	White masonry tower, building; 26.	
31704 *D 6590*	Ilha de Mafamede.	16° 21.2′ S 40° 01.8′ E	**Fl.(2)R.** period 10s fl. 0.5s, ec. 1s fl. 0.5s, ec. 8s	78 **24**	12	White hexagonal tower; 82.	Visible 029°-049° and 206°-221°.
31708 *D 6586*	**Ponta Caldeira.**	16° 39.5′ S 39° 30.5′ E	**Fl.(3)R.** period 10s fl. 0.5s, ec. 1.2s fl. 0.5s, ec. 1.2s fl. 0.5s, ec. 6.1s	164 **50**	**18**	White octagonal concrete tower, dwelling; 89.	
31712 *D 6582*	Ihla Epidendron.	17° 05.2′ S 39° 07.2′ E	**Fl.(2)R.** period 8s	102 **31**	8	White square framework tower, red bands; 79.	
31716 *D 6580*	Ilha do Fogo, E. side.	17° 13.9′ S 38° 53.0′ E	**Fl.W.R.G.** period 12s fl. 0.8s, ec. 11.2s	115 **35**	W. 14 R. 10 G. 11	White four-sided concrete framework tower; 112.	
31720 *D 6576*	Ponta Matirre.	17° 16.5′ S 38° 11.0′ E	**Fl.(2+1)W.** period 12s	165 **50**	13	White iron framework tower, red bands; 43.	
31724 *D 6575*	Macuse, on Ponta Namerrumo Point, W. side of entrance to Rio Macuse.	17° 46.5′ S 37° 11.1′ E	**Fl.W.** period 3s fl. 0.5s, ec. 2.5s	69 **21**	4	White square concrete framework tower; 66.	
	PORTO DE QUELIMANE:						
31732 *D 6573.4*	-Port office.	17° 52.7′ S 36° 52.9′ E	**F.G.**	23 **7**	5	Red column; 10.	
31736 *D 6574*	-Recamba.	17° 53.4′ S 36° 52.8′ E	**Fl.R.** period 6s fl. 0.4s, ec. 5.6s	23 **7**	3	Red column; 16.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			MOZAMBIQUE				
31740 *D 6570*	Vilhena.	18° 05.7′ S 36° 55.4′ E	**Fl.(2)W.** period 12s fl. 0.8s, ec. 4.5s fl. 0.8s, ec. 5.9s	102 **31**	14	Red metal framework tower, white bands; 89.	
31744 *D 6566*	Porto do Chinde, Farol Inhamiara.	18° 31.3′ S 36° 31.5′ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	72 **22**	14	White square framework tower, hut; 33.	
31748 *D 6567*	Praia do Chinde, about 1 mile SW. of Pta. Liberal.	18° 35.2′ S 36° 27.6′ E	**Fl.(2)W.** period 6s fl. 0.5s, ec. 0.5s fl. 0.5s, ec. 4.5s	35 **11**	7	White framework tower, dwelling; 36.	
31752 *D 6564*	Ilha Timbue.	18° 49.8′ S 36° 20.8′ E	**Fl.W.** period 8s fl. 0.8s, ec. 7.2s	135 **41**	13	Red metal framework tower, white bands.	
31756 *D 6563*	Machesse.	19° 16.9′ S 35° 33.1′ E	**Fl.(2)W.** period 10.1s fl. 0.5s, ec. 2.1s fl. 0.5s, ec. 7s	154 **47**	14	Aluminum framework tower, red bands; 131.	
31760 *D 6562*	Savane.	19° 39.3′ S 35° 10.3′ E	**L.Fl.W.** period 12s fl. 2s, ec. 10s	172 **52**	7	White framework tower, black bands; 131.	
31764 *D 6553*	**Rio Macuti.**	19° 50.6′ S 34° 54.0′ E	**Fl.(3)W.** period 10s fl. 0.3s, ec. 1.2s fl. 0.3s, ec. 1.2s fl. 0.3s, ec. 6.7s	118 **36**	**19**	White round tower, red bands; 92.	**Aero Radiobeacon** 5 miles NNW.
	RACON		**M(– –)**		**15**		(3 & 10cm).
31768 *D 6554*	--Antenna Tower AVIATION LIGHT.	19° 49.9′ S 34° 51.8′ E	**Iso.R.** period 2.5s	294 **90**	12	Metal framework tower; 292.	3 F.R. (vert.) lights on tower.
31772	*-Buoy A.*	19° 56.2′ S 35° 02.8′ E	**Mo.(A)W.** period 8s			SAFE WATER RW, pillar, topmark.	
	-RACON		**C(– • – •)**		**15**		(3 & 10cm).
31777	*-Macuti Approach Buoy.*	20° 10.0′ S 35° 19.9′ E	**Fl.(2)W.** period 10s				
	-RACON		**M(– –)**				
31780 *D 6548*	Ilha Chiloane Chingune Point.	20° 37.1′ S 34° 53.1′ E	**F.W.**	26 **8**	8	Metal column, white concrete base; 39.	
31784 *D 6546*	Ponta Ingomaimo, N. extremity.	20° 42.9′ S 34° 59.6′ E	**Fl.W.** period 6s fl. 0.8s, ec. 5.2s	141 **43**	13	White hexagonal concrete tower, black band; 131.	
31788 *D 6540*	**Cabo Bazaruto.**	21° 32.0′ S 35° 29.2′ E	**Fl.(3)W.** period 30s	381 **116**	**23**	White round tower, dwelling; 85.	Visible 020°-357°.
31792 *D 6542*	Ilha do Santa Carolina.	21° 36.9′ S 35° 20.3′ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	73 **22**	8	Square concrete tower; 23.	
31796 *D 6544*	Mucoque, on Ponta Chue.	21° 59.0′ S 35° 19.0′ E	**Fl.R.** period 2s fl. 0.3s, ec. 1.7s	56 **17**	5	White square tower; 13.	
31800 *D 6538*	Ponta Sao Sebastiao, near S. end of spit.	22° 16.4′ S 35° 31.9′ E	**Fl.(5)W.** period 15s fl. 0.8s, ec. 1.1s fl. 0.8s, ec. 1.1s fl. 0.8s, ec. 1.1s fl. 0.8s, ec. 1.1s fl. 0.8s, ec. 6.6s	125 **38**	12	Red tower, white band, on white dwelling; 26.	
31804 *D 6536*	**Ponta da Barra Falsa.**	22° 56.8′ S 35° 35.6′ E	**Fl.(2)W.** period 10s fl. 0.3s, ec. 2.3s fl. 0.3s, ec. 7.1s	404 **123**	**18**	White four-sided tower; 46.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			MOZAMBIQUE				
31808	*Inhambane Lighted Buoy,* 914 meters E. of bar.	23° 40.0′ S 35° 30.0′ E	**Fl.W.** period 10s fl. 0.5s, ec. 9.5s			Black and white striped buoy.	
31812 *D 6532*	**Ponta da Barra.**	23° 47.7′ S 35° 32.2′ E	**Fl.(3)W.** period 10s	81 **25**	**29**	White round tower; 44.	
31816 *D 6530*	Cabo das Correntes.	24° 06.4′ S 35° 30.1′ E	**Fl.(4)W.** period 10s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 1s fl. 0.5s, ec. 5s	112 **34**	13	White square tower; 16.	
31820 *D 6528*	**Ponta Zavora.**	24° 31.4′ S 35° 11.8′ E	**Fl.W.** period 10s	220 **67**	**19**	White masonry tower and dwelling; 53.	
	RACON		**Z(– – • •)**				
31824 *D 6526*	Quissico.	24° 45.0′ S 34° 48.4′ E	**Fl.(2)W.** period 5s fl. 0.5s, ec. 1s fl. 0.5s, ec. 3s	188 **57**	10	White framework tower; 20.	
31828 *D 6524*	**Baizos da Boa Paz.**	24° 57.9′ S 34° 10.2′ E	**Fl.(3)W.** period 10s fl. 0.3s, ec. 1.9s fl. 0.3s, ec. 1.9s fl. 0.3s, ec. 5.3s	244 **74**	**15**	White round tower; 26.	
	BAIA DE LOURENCO MARQUES:						
31832 *D 6522*	**-Monte Belo.**	25° 11.3′ S 33° 30.1′ E	**Fl.W.** period 4.5s	305 **93**	**20**	White stone tower, dwelling; 46.	
31836 *D 6491*	-Lacerda.	25° 33.8′ S 32° 50.6′ E	**Fl.(3)W.** period 12s	200 **61**	5	Aluminum framework tower, white rectangular daymark; 33.	Difficult to distinguish due to vegetation.
	-RACON		**O(– – –)**				(3 & 10cm).
31838	*-Buoy No 1N.*	25° 38.3′ S 32° 53.0′ E	**Q.W.**			N. CARDINAL BY, pillar, topmark.	
	-RACON		**C(– • – •)**				
31840 *D 6491.4*	-Macomana.	25° 40.7′ S 32° 46.2′ E	**Fl.W.** period 10s fl. 0.5s, ec. 9.5s		12	Tripod, white building.	
31848 *D 6492.1*	**-Cabo da Inhaca.**	25° 58.6′ S 32° 59.3′ E	**Fl.(2+1)W.** period 15s	357 **109**	**23**	White hexagonal tower; 102.	Aeromarine light. Visible 224°-212°.
			Iso.R. period 4s		12		Visible 212°-224° over Baixo Danae Shoal.
31860	*-Buoy No 3S.*	25° 52.0′ S 32° 54.0′ E	**Fl.(3)R.** period 9s			PORT (A) R, can, topmark.	
	-RACON		**G(– – •)**				
31868 *D 6500*	**-Baixo Ribeiro.**	25° 54.7′ S 32° 48.1′ E	**Iso.W.R.** period 5s	49 **15**	W. **15** R. 12	White round concrete structure; 43.	R. 076°-244°, W.-076°.
31876 *D 6503*	**-Canal da Polana** Range, front.	25° 58.0′ S 32° 37.4′ E	**Oc.W.** period 8s	66 **20**	**25**	Framework tower, dolphin, red rectangular daymark, yellow stripe; 59.	Visible 250°-255°. **AIS** (MMSI No 990066010).
	-RACON		**KT(– • – –)**				
31880 *D 6503.1*	**--Miradouro,** rear, 2976 meters 252°30′ from front.	25° 58.5′ S 32° 35.7′ E	**Oc.W.** period 8s lt. 4.5s, ec. 3.5s	226 **69**	**25**	Red rectangular daymark, yellow stripe.	Visible 250°-255°. **AIS** (MMSI No 990066009).
	--RACON		**TS(– • • •)**				

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			MOZAMBIQUE				
31884 *D 6508*	--No 2 Range, front.	25° 59.9′ S 32° 34.7′ E	**Oc.R.** period 4s lt. 3s, ec. 1s	36 **11**	12	Dolphin, red rectangular daymark, yellow stripe; 36.	Visible 219°-259°. **AIS** (MMSI No 990066012).
31888 *D 6508.1*	---Catembe rear, S. bank of river 1865 meters 239° from front.	26° 00.4′ S 32° 33.8′ E	**Oc.R.** period 4s	98 **30**	12	Red rectangular daymark, yellow stripe; 39.	Visible 219°-259°. **AIS** (MMSI No 990066011).
31892 *D 6512*	--Pier, head.	25° 58.8′ S 32° 33.7′ E	**Fl.R.** period 5s	10 **3**	5	White column; 10.	Visible 135°-355°.
31896 *D 6514*	-Luz do Cais, NW. extremity of Molhe da Capitania.	25° 58.6′ S 32° 34.2′ E	**Fl.(2)G.** period 6s	28 **9**	4	White round building, gallery, mast; 23.	Visible 295°-125°.
31900 *D 6517*	-Dredged channel, No 1 Range, front.	25° 56.7′ S 32° 30.2′ E	**Oc.R.** period 8s	16 **5**	12	Framework tower, red rectangular daymark, yellow stripe.	Visible 276°-316°.
31904 *D 6517.1*	--Rear, about 805 meters 296° from front.	25° 56.5′ S 32° 29.8′ E	**Oc.R.** period 8s	75 **23**	12	Framework tower, red rectangular daymark, yellow stripe.	Visible 276°-316°. Synchronized with front.
31912 *D 6518.1*	-Dredged channel, No 2 Range, rear, 1,527 meters 070° from front.	25° 56.9′ S 32° 32.6′ E	**Iso.G.** period 4s	124 **38**	10	Framework tower, red rectangular daymark, yellow stripe.	Visible 050°-090°. Unlit front beacon.
31928 *D 6488*	**Ponta do Ouro.**	26° 51.4′ S 32° 53.3′ E	**Fl.(2)W.** period 10s	374 **114**	**15**	White concrete tower, white dwelling; 16.	
			SOUTH AFRICA				
31932 *D 6486*	**Jesser Point.**	27° 32.7′ S 32° 40.7′ E	**Fl.(4)W.** period 40s fl. 1s, ec. 4s fl. 1s, ec. 4s fl. 1s, ec. 4s fl. 1s, ec. 24s	200 **61**	**25**	White round concrete tower, red lantern; 36.	Range 6M by day.
31936 *D 6485*	**Cape Vidal.**	28° 08.9′ S 32° 33.1′ E	**Fl.W.** period 10s fl. 0.5s, ec. 9.5s	213 **65**	**25**	Yellow round concrete tower, red lantern; 75.	Range 5M by day.
31940 *D 6484*	**Cape St. Lucia.**	28° 30.9′ S 32° 24.0′ E	**Fl.(2)W.** period 10s fl. 0.5s, ec. 1s fl. 0.5s, ec. 8s	371 **113**	**24**	White metal tower, black bands, white dome; 26.	Visible 210°-030°.
31944 *D 6483*	**Richard's Bay.**	28° 46.5′ S 32° 07.7′ E	**Fl.(3)W.** period 15s fl. 0.4s, ec. 2s fl. 0.4s, ec. 2s fl. 0.4s, ec. 9.8s	236 **72**	**25**	White square concrete tower, round top; 36.	
31948 *D 6483.2*	-Range, front.	28° 47.5′ S 32° 02.2′ E	**Oc.(2)R.** period 6s lt. 1s, ec. 1s lt. 3s, ec. 1s	180 **55**		Framework tower; 168.	F.R. by day.
31952 *D 6483.21*	--Rear, 0.8 mile 290°15′ from front.	28° 47.0′ S 32° 00.5′ E	**Oc.(2)W.** period 6s lt. 1s, ec. 1s lt. 3s, ec. 1s	240 **73**		Framework tower; 223.	F.W. by day.
31956 *D 6483.4*	-S. breakwater, head.	28° 48.9′ S 32° 05.9′ E	**Fl.W.** period 3s fl. 0.1s, ec. 2.9s	59 **18**	6	White tower, red bands; 33.	
	-RACON		**N(– •)**		12		(3 & 10cm).
31960 *D 6483.45*	-N. breakwater, head.	28° 48.3′ S 32° 05.9′ E	**Fl.(2)G.** period 5s	49 **15**	6	Black tower, white bands; 33.	
31962 *D 6483.5*	-N. Headland.	28° 48.4′ S 32° 05.6′ E	**F.G.**			Metal post; 23.	
31963 *D 6483.52*	-Pelican Island, W. groin, S. head.	28° 47.9′ S 32° 05.1′ E	**Q.G.**			Post; 16.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			SOUTH AFRICA				
31963.2 *D 6483.53*	---N. head.	28° 47.7′ S 32° 05.1′ E	**Fl.G.** period 3s fl. 0.3s, ec. 2.7s			Post; 16.	
31963.4 *D 6483.54*	--E. groin.	28° 48.0′ S 32° 05.3′ E	**Fl.R.** period 2s fl. 0.3s, ec. 1.7s			Post; 16.	
31963.6 *D 6483.57*	--E. breakwater.	28° 47.9′ S 32° 05.5′ E	**Fl.G.** period 2s fl. 0.3s, ec. 1.7s			Post; 16.	
31964 *D 6482*	**Durnford Point.**	28° 54.9′ S 31° 55.3′ E	**Fl.(3+1)W.** period 40s fl. 0.1s, ec. 6.6s fl. 0.1s, ec. 6.6s fl. 0.1s, ec. 13.2s fl. 0.1s, ec. 13.2s	184 **56**	**19**	White round concrete structure; 39.	Visible 246°-070°.
	RACON		**O(– – –)**		12		(3 & 10cm).
31968 *D 6480*	**Umhlanga Rocks.**	29° 43.7′ S 31° 05.3′ E	**Fl.(3)W.** period 20s fl. 0.3s, ec. 2.2s fl. 0.3s, ec. 2.2s fl. 0.3s, ec. 14.7s	79 **24**	**24**	White round concrete tower, red top; 69.	
			F.R.		10		Visible 010°-030°.
31972 *D 6481*	**Tugela Bluff.**	29° 13.3′ S 31° 30.3′ E	**Fl.(4)W.** period 30s fl. 0.4s, ec. 4.6s fl. 0.4s, ec. 4.6s fl. 0.4s, ec. 4.6s fl. 0.4s, ec. 14.6s	115 **35**	**23**	White round concrete tower, 3 black bands; 72.	Range 5M by day.
	DURBAN:						
31974 *D 6461*	-Anglo-American Building.	29° 51.5′ S 31° 01.3′ E	**Fl.W.** period 7s	472 **144**	**25**	Building.	Private light.
31975 *D 6461.5*	-Holiday Inn.	29° 51.2′ S 31° 02.3′ E	**F.W.**	357 **109**	8	Building.	Private light.
31976	*-Fairway Buoy.*	29° 50.0′ S 31° 05.6′ E	**Iso.W.** period 2s			SAFE WATER RW, pillar, topmark.	
	-RACON		**B(– • • •)**		12		(3cm).
31977 *D 6463*	-The Bluff, AVIATION LIGHT.	29° 53.3′ S 31° 02.8′ E	**F.R.**		5		
31978 *D 6464*	-S. pier, head.	29° 51.9′ S 31° 03.8′ E	**Fl.(2)W.** period 5s fl. 0.1s, ec. 1.1s fl. 0.1s, ec. 3.7s	46 **14**	**18**	Round metal tower, red platform; 26.	
31979 *D 6466*	-N. pier, head.	29° 52.0′ S 31° 03.5′ E	**Fl.G.** period 3s	46 **14**	**15**	Round metal tower, green platform; 33.	
31984 *D 6472*	-Channel Range, front.	29° 53.1′ S 31° 02.7′ E	**Iso.R.** period 2s	69 **21**	12	Gray framework tower, yellow triangular daymark, point up.	
31988 *D 6472.1*	--Rear, 1040 meters 215°30′ from front.	29° 53.6′ S 31° 02.4′ E	**Oc.W.** period 4s	141 **43**	14	Gray framework tower, yellow triangular daymark point down.	
31990 *D 6473.3*	-Salisbury Island, N. corner pier.	29° 52.9′ S 31° 02.4′ E	**Q.(2)W.** period 3s			Metal column.	
31992 *D 6475*	-Island View Channel Range, front.	29° 53.4′ S 31° 01.6′ E	**Fl.W.** period 3s	72 **22**		Black framework tower, yellow triangular daymark point up.	
31996 *D 6475.1*	--Rear, 84 meters 243°30′ from front.	29° 53.5′ S 31° 01.5′ E	**Oc.R.** period 4s	82 **25**		Black framework tower, yellow triangular daymark point down.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			SOUTH AFRICA				
31997 *D 6475.2*	-Small craft basin, W. head.	29° 51.8′ S 31° 01.7′ E	**Fl.(2)R.** period 5s				
31998 *D 6475.3*	--E. head.	29° 51.8′ S 31° 01.8′ E	**Fl.(2)G.** period 5s				
31999 *D 6476*	-S. corner, T-Jetty, head.	29° 52.3′ S 31° 02.1′ E	**Fl.G.** period 1.5s				
32000 *D 6478*	-Beach Anchorage Beacon.	29° 48.9′ S 31° 02.3′ E	**Q.W.**	52 **16**	5	Gray post.	F.W. 3M, floodlit, by day.
32001 *D 6476.2*	--NW. head.	29° 52.2′ S 31° 01.9′ E	**Q.W.**			Metal post; 23	Neon
32002 *D 6477*	-No 1 Pier, NE. corner.	29° 52.6′ S 31° 02.0′ E	**Fl.R.** period 3s			Metal column; 23.	Neon
32003 *D 6477.2*	--NW. corner.	29° 52.6′ S 31° 01.8′ E	**Fl.W.** period 3s			Metal column; 23.	Neon.
32005 *D 6477.4*	-No 2 pier, NE. corner.	29° 52.7′ S 31° 01.4′ E	**Q.(2)R.** period 3s			Metal column.	Neon.
32006 *D 6477.5*	-Fish wharf.	29° 54.1′ S 31° 00.4′ E	**Q.G.**	20 **6**	2	Metal post, yellow base.	
32020 *D 6458*	**Cooper.**	29° 56.1′ S 31° 00.3′ E	**Fl.W.** period 10s fl. 0.3s, ec. 9.7s	436 **133**	**26**	Red concrete tower, white band, red lantern; 69.	
32024	*S.B.M.*	30° 00.5′ S 30° 58.4′ E	**Fl.W.** period 3s				
32028	Widenham RACON	30° 13.3′ S 30° 47.5′ E	**K(– • –)**		12		(3 & 10cm).
32032 *D 6454*	**Green Point.**	30° 14.9′ S 30° 46.6′ E	**Fl.(2)W.** period 15s	279 **85**	**30**		Visible 213°-022°. F.R. lights on radio tower 3.3 miles SW.
			F.R.	248 **76**	**15**	Red round iron tower, white bands; 69.	Visible over Aliwal Shoal 268°-298°.
32036	Scottburgh RACON	30° 17.2′ S 30° 45.4′ E	**G(– – •)**		12		(3 & 10cm).
32040 *D 6452*	**Ifafa Beach.**	30° 27.8′ S 30° 39.1′ E	**Fl.(3)W.** period 30s fl. 0.7s, ec. 4.3s fl. 0.7s, ec. 4.3s fl. 0.7s, ec. 19.3s	115 **35**	**19**	Metal framework tower, triangular daymark point up; 75.	Shown by day.
32044 *D 6450*	**Port Shepstone.**	30° 44.5′ S 30° 27.5′ E	**Fl.W.** period 6s fl. 0.3s, ec. 5.7s	79 **24**	**26**	Black and white checkered metal tower, white lantern; 26.	Visible 215°-028°. F.R. and Q.W. lights on radio tower 8.7 miles W.
32048 *D 6448*	**North Sand Bluff.**	31° 03.4′ S 30° 13.6′ E	**Fl.(2)W.** period 10s fl. 0.3s, ec. 3s fl. 0.3s, ec. 6.4s	125 **38**	**24**	White round concrete tower, red lantern; 72.	Visible 217°-034°.
32052 *D 6446*	**South Sand Bluff.**	31° 19.7′ S 29° 57.7′ E	**Fl.W.** period 10s fl. 0.2s, ec. 9.8s	246 **75**	**18**	White round concrete tower, red lantern; 33.	
32056 *D 6442*	**Cape Hermes.**	31° 38.1′ S 29° 33.1′ E	**Fl.W.** period 3s fl. 0.3s, ec. 2.7s	180 **55**	**21**	Octagonal stone tower, white top; 43.	Visible 230°-040° and to 159° in the entrance.
32060 *D 6438*	**Mbashe Point.**	32° 14.4′ S 28° 55.0′ E	**Fl.(2+1)W.** period 38s fl. 0.3s, ec. 5.1s fl. 0.3s, ec. 16s fl. 0.3s, ec. 16s	151 **46**	**28**	White metal framework tower, red dome; 46.	
32064 *D 6434*	**Cape Morgan.**	32° 42.4′ S 28° 21.9′ E	**Fl.(2)W.** period 10s fl. 0.3s, ec. 2.2s fl. 0.3s, ec. 7.2s	197 **60**	**24**	Black framework tower, yellow bands, square daymark; 39.	Shown by day.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			SOUTH AFRICA				
	EAST LONDON:						
32068 *D 6432*	-Nahoon Point.	32° 59.9′ S 27° 56.7′ E	**Fl.W.** period 3s fl. 0.3s, ec. 2.7s	222 **68**	8	White tower, red band.	
32072 *D 6426*	-E. breakwater, head.	33° 01.6′ S 27° 55.0′ E	**Q.G.**	32 **10**	14	White concrete tower.	
32076 *D 6424*	-S. breakwater, head.	33° 01.7′ S 27° 55.5′ E	**Fl.R.** period 2s fl. 0.1s, ec. 1.9s	52 **16**	**16**	White concrete tower.	**Horn:** Mo.(Q) ev. 30s (bl. 2.5s, si. 2s, bl. 2.5s, si. 2s, bl. 1s, si. 2s, bl. 2.5s, si. 15.5s).
32080 *D 6424.2*	--Root.	33° 01.7′ S 27° 55.2′ E	**Q.W.**			White square concrete tower.	Visible 044°-224°. For use inside harbor.
32084 *D 6428*	-Castle Point Range, front.	33° 01.7′ S 27° 54.9′ E	**F.R.**	68 **21**		Metal framework tower, white triangular daymark point up.	
32088 *D 6428.1*	--Rear, 363 meters 249°45′ from front.	33° 01.8′ S 27° 54.7′ E	**Oc.W.** period 3s	197 **60**		Framework tower, red and white bands, white triangular daymark point down; 154.	
32092 *D 6420*	**Hood Point.**	33° 02.4′ S 27° 53.9′ E	**Fl.(4)W.** period 40s fl. 0.5s, ec. 4.2s fl. 0.5s, ec. 4.2s fl. 0.5s, ec. 4.2s fl. 0.5s, ec. 25.4s	180 **55**	**28**	White round masonry tower, red cupola; 60.	Visible 235°-233°.
32096 *D 6416*	**Great Fish Point.**	33° 31.2′ S 27° 06.4′ E	**Fl.W.** period 10s fl. 0.5s, ec. 9.5s	279 **85**	**30**	White octagonal tower, black stripes, red cupola; 30.	F.R. lights on radio mast 6.8 miles WSW.
32100 *D 6414*	Port Alfred, S. breakwater, head.	33° 36.3′ S 26° 54.2′ E	**Q.R.**	30 **9**	5	Square framework tower; 13.	
32104 *D 6412*	**Bird Islands.**	33° 50.5′ S 26° 17.3′ E	**Fl.(2)W.** period 20s fl. 0.5s, ec. 2.2s fl. 0.5s, ec. 16.8s	96 **29**	**27**	Red square masonry tower, white band, white cross on N. and S. sides; 85.	
	PORT ELIZABETH						
32105 *D 6411*	-E. breakwater head.	33° 49.1′ S 25° 41.6′ E	**Q.G.**	59 **18**	14	Round concrete tower, platform; 36.	**Horn:** Mo.(N) ev. 20s (bl. 6s, si. 2s, bl. 2s, si 10s). Sounded in fog.
32105.1 *D 6411.2*	-Inner.	33° 48.6′ S 25° 41.8′ E	**Fl.G.** period 2s	49 **15**	7	Metal post; 26.	
32105.2 *D 6411.44*	-Liquid bulk quay.	33° 48.0′ S 25° 41.4′ E	**F.R.**	36 **11**		Metal post; 20.	Neon.
32105.3 *D 6411.4*	-S. quay, SE.	33° 48.0′ S 25° 41.3′ E	**F.G.**	36 **11**		Metal post; 20.	Neon.
32105.4 *D 6411.39*	-Container quay, NW.	33° 47.9′ S 25° 40.9′ E	**F.R.**	36 **11**		Metal post; 20.	Neon.
32105.5 *D 6411.3*	-W. breakwater.	33° 48.5′ S 25° 41.4′ E	**Fl.R.** period 2s	56 **17**	7	Metal post; 36.	
32106 *D 6410.6*	-Range, front.	33° 47.6′ S 25° 41.7′ E	**Oc.R.** period 4s	121 **37**	4	White framework tower, red bands, orange square daymark; 59.	Shown 24 hours.
32106.1 *D 6410.61*	--Rear, about 580 meters 009°30′ from front.	33° 47.3′ S 25° 41.8′ E	**Oc.W.** period 4s	187 **57**	6	White framework tower, red bands, orange square daymark; 23.	Shown 24 hours.
32106.2 *D 6410.5*	-Ngqura Harbor Range, front.	33° 48.4′ S 25° 40.7′ E	**Oc.W.** period 3s lt. 2s, ec. 1s	230 **70**	7	White framework tower, red bands, orange rectangular daymark, white stripe; 167.	Shown 24 hours.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			SOUTH AFRICA				
32106.3 *D 6410.51*	--Rear, 1011 meters 342°24′ from front.	33° 47.8′ S 25° 40.5′ E	**Oc.W.** period 6s lt. 4s, ec. 2s	338 **103**	8	White framework tower, red bands, orange rectangular daymark, white stripe; 197.	Shown 24 hours.
32108 *D 6400*	**-Deal.**	33° 54.9′ S 25° 36.8′ E	**Fl.W.** period 10s fl. 0.5s, ec. 9.5s	89 **27**	**24**	Framework tower, red lantern, square daymark; 72.	F.R. lights on radio masts 6.8 miles SW., 1.2 miles and 2.8 miles WSW.
32110	*-Fairway Buoy.*	33° 55.6′ S 25° 40.4′ E	**Iso.W.** period 2s			SAFE WATER RW, pillar, topmark.	
	-RACON		**C(– • – •)**		12		(3 & 10cm).
32116 *D 6404*	-S. breakwater, extension.	33° 57.2′ S 25° 38.6′ E	**V.Q.(2)R.** period 6s	52 **16**	14	White concrete tower.	**Horn:** Mo.(Q) ev. 30s (bl. 4s, si. 2s, bl. 4s, si. 2s, bl. 2s, si. 2s, bl. 4s, si. 10s). Sounded in fog.
32120 *D 6405*	-S. breakwater, root-167°45′.	33° 57.8′ S 25° 38.6′ E	**Dir.W.R.G.**	122 **37**	12	Framework tower; 102.	F.G. 148°-162°, Q.G.-166°, F.W.-170°, Q.R.-174°, F.R.-188°.
32124 *D 6403*	-Range, front.	33° 57.3′ S 25° 37.2′ E	**Q.R.**	118 **36**	**19**	Red framework tower, white bands, square daymark; 102.	Shown 24 hours.
32128 *D 6403.1*	--Rear, about 496 meters 238° from front.	33° 57.4′ S 25° 36.9′ E	**Oc.W.** period 5s lt. 3s, ec. 2s	197 **60**	**24**	White post; 16.	Shown 24 hours.
32132 *D 6406*	-N. Arm, Charl Malan Quay, inner head.	33° 57.5′ S 25° 38.5′ E	**F.G.**	26 **8**	2	White metal post; 10.	Neon.
32136 *D 6407*	--Outer head.	33° 57.3′ S 25° 38.3′ E	**V.Q.(3)G.** period 5s	52 **16**	14	White metal post; 33.	Neon traffic signals.
32137 *D 6407.5*	--Range, front.	33° 57.7′ S 25° 37.7′ E	**F.R.**	39 **12**	2	Metal post, yellow and black chevron; 19.	Neon.
32137.1 *D 6407.51*	---Rear, 180 meters 263° from front.	33° 57.7′ S 25° 37.6′ E	**F.G.**	46 **14**	2	Metal post, yellow and black chevron; 30.	Neon.
32137.2 *D 6408.2*	-Berth No 9.	33° 57.8′ S 25° 38.2′ E	**F.R.**	30 **9**	2	White metal post; 10.	Neon.
32137.3 *D 6408*	-No 3 quay.	33° 57.7′ S 25° 38.2′ E	**F.G.**	30 **9**	2	White metal post; 10.	Neon.
32137.4 *D 6409*	-Fisheries jetty.	33° 58.0′ S 25° 38.1′ E	**Iso.G.** period 2s	26 **8**	2	White metal post; 13.	Neon.
32137.5 *D 6409.5*	-Tanker berth.	33° 57.8′ S 25° 38.6′ E	**F.R.**	23 **7**	2	Metal pole; 10.	Neon.
32137.6 *D 6409.7*	-Ore berth, E. quay.	33° 57.9′ S 25° 38.5′ E	**F.R.**	30 **9**	2	Metal post; 10.	Neon.
32137.7 *D 6409.6*	--W. quay.	33° 58.0′ S 25° 38.3′ E	**Iso.R.** period 2s	30 **9**	2	Metal post; 10.	Neon.
32144 *D 6390*	**Cape Recife.**	34° 01.7′ S 25° 42.0′ E	**L.Fl.(3)W.R.** period 117s fl. 2.8s, ec. 27s fl. 2.8s, ec. 27s fl. 2.8s, ec. 54.6s	92 **28**	W. **29** R. **15**	White octagonal tower, black bands, red dome; 79.	W. 190°-162°, R.-190°. **Horn:** Mo.(B) ev. 30s (bl. 4s, si. 2s, bl. 2s, si. 2s, bl. 2s, si. 2s, bl. 2s, si. 14s). Sounded in fog. On request
			F.W.R.	92 **28**	W. **21** R. 10		W. 190°-162°, R.-190°. Under certain atmospheric conditions only flash may be seen.
32148 *D 6386*	**Cape St. Francis.**	34° 12.8′ S 24° 50.2′ E	**Fl.W.** period 5s fl. 0.2s, ec. 4.8s	118 **36**	**28**	White round masonry tower; 92.	Visible 224°-shore. F.R. on radio masts 23 and 29 miles WNW. **Horn:** Mo.(C) ev. 30s (bl. 4s, si. 2s, bl. 1.5s, si. 2s, bl. 4s, si. 2s, bl. 1.5s, si. 13s). Sounded in fog. On request.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			SOUTH AFRICA				
32150 *D 6386.1*	Kromme Bay.	34° 11.7′ S 24° 52.2′ E	**Q.(3)W.** period 5s	30 **9**	7	White pole; 10.	
32152 *D 6384*	**Cape Seal.**	34° 06.4′ S 23° 24.4′ E	**Fl.(2)W.** period 30s fl. 0.3s, ec. 9.7s fl. 0.3s, ec. 19.7s	469 **143**	**15**	White metal framework tower, yellow round daymark; 20.	
	MOSSELBAAI:						
32164 *D 6380*	-Aliwai Harbor, mole, head.	34° 10.7′ S 22° 08.8′ E	**F.R.**	46 **14**	4	Column; 26.	
32168 *D 6381*	-Range, front.	34° 08.4′ S 22° 06.7′ E	**F.R.**			Column; 49.	Occasional.
32172 *D 6381.1*	--Rear, 240 meters 288°30′ from front.	34° 08.3′ S 22° 06.6′ E	**F.W.**			Column; 49.	Occasional.
32176 *D 6381.2*	-Range, front.	34° 10.2′ S 22° 07.3′ E	**F.R.**	79 **24**		Column; 33.	Occasional.
32180 *D 6381.3*	--Rear, 160 meters 198° from front.	34° 10.2′ S 22° 07.3′ E	**F.W.**	125 **38**		Column; 26.	Occasional.
32184 *D 6379*	-Breakwater, head.	34° 10.5′ S 22° 08.8′ E	**Iso.R.**	52 **16**	12	Red framework tower; 39.	
32188 *D 6382*	-No 4 Quay, NW. corner.	34° 10.6′ S 22° 08.7′ E	**Fl.G.** period 3s	43 **13**	4	Column; 26.	Vertical neon strip light.
32189 *D 6382.1*	--NE. corner.	34° 10.6′ S 22° 08.8′ E	**F.G.**	46 **14**	4	Column; 26.	Vertical neon strip light.
32190 *D 6382.5*	*Oil terminal SBM.*	34° 08.7′ S 22° 08.5′ E	**Mo.(U)Y.** period 15s fl. 0.4s, ec. 0.5s fl. 0.4s, ec. 0.5s fl. 1.2s, ec. 12s		2	Yellow superbuoy.	**Horn:** 1 bl. ev. 30s (bl. 3s, si. 27s).
32192 *D 6378*	**-Cape St. Blaize.**	34° 11.2′ S 22° 09.4′ E	**Fl.(2)W.** period 15s	240 **73**	**25**	White four-sided masonry tower; 46.	Obscured within 0.5 mile of Cape Vacca. Visible 110°-052°. **Horn:** Mo.(F) ev. 60s. Sounded in fog.
32194	Agulhas Bank RACON.	34° 54.8′ S 21° 42.5′ E	**X(– • • –)**		12		(3 & 10cm).
32196 *D 6374*	**Yzervark Point.**	34° 23.6′ S 21° 43.7′ E	**Fl.W.** period 10s	164 **50**	**24**	White round concrete structure, red diagonal stripe, red lantern; 72.	Shown 24 hours.
32200 *D 6372*	Stilbaai, jetty, head.	34° 23.1′ S 21° 25.6′ E	**Iso.R.** period 2s	13 **4**	5	Red column.	
32204 *D 6371*	**Cape Infanta.**	34° 28.3′ S 20° 50.8′ E	**Fl.(3)W.** period 20s fl. 0.5s, ec. 2s fl. 0.5s, ec. 2s fl. 0.5s, ec. 14.5s	174 **53**	**24**	Framework tower, square daymark, red lantern; 49.	Range 5M by day.
32204.5 *D 6370.4*	Struispunt.	34° 41.4′ S 20° 14.1′ E	**Fl.(3)W.** period 15s fl. 0.4s, ec. 1s fl. 0.4s, ec. 1s fl. 0.4s, ec. 11.8s	39 **12**	11	Pyramidal concrete tower, white circular daymark, red stripes.	
32205 *D 6370.3*	Arniston.	34° 40.0′ S 20° 13.9′ E	**Q.R.**	7 **2**	2	Pole; 7.	
32206 *D 6370.1*	Struisbaai Harbor, S. breakwater.	34° 47.7′ S 20° 03.7′ E	**Fl.W.** period 2s fl. 0.3s, ec. 1.7s	19 **6**	5	White hut, red bands.	
32206.2 *D 6370.2*	-Directional light.	34° 47.9′ S 20° 03.4′ E	**Dir.W.R.G.**	26 **8**	3	Red post.	F.G. 254°-266°, F.W.-270°, F.R.-282°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			SOUTH AFRICA				
32208 *D 6370*	**Cape Agulhas.**	34° 49.7′ S 20° 00.6′ E	**Fl.W.** period 5s fl. 0.3s, ec. 4.7s	102 **31**	**30**	Red round tower, white band, lantern; 89.	
32212 *D 6332*	**Quoin Point.**	34° 46.8′ S 19° 38.5′ E	**Fl.(2)W.** period 10s fl. 0.1s, ec. 2.9s fl. 0.1s, ec. 6.9s	112 **34**	**16**	Framework tower, red diamond daymark, white bands; 69.	
32216 *D 6320*	**Danger Point.**	34° 37.8′ S 19° 18.1′ E	**L.Fl.(3)W.** period 40s fl. 2s, ec. 4s fl. 2s, ec. 4s fl. 2s, ec. 26s	148 **45**	**27**	White octagonal masonry tower, red dome, white lantern; 56.	Obscured in Walker Bay on bearings more than 180°. **Horn:** Mo.(D) ev. 15s. (bl. 4s, si. 2s, bl. 1.5s, si. 2s, bl. 1.5s, si. 4s).
32220 *D 6306*	-W. breakwater.	34° 35.1′ S 19° 20.4′ E	**Fl.W.** period 4s fl. 0.3s, ec. 3.7s	33 **10**	6		
32224 *D 6307*	-W. breakwater, head.	34° 35.1′ S 19° 20.5′ E	**Fl.(2)G.** period 5s fl. 0.3s, ec. 0.7s fl. 0.3s, ec. 3.7s		4		
32228 *D 6308*	-W. jetty, head.	34° 35.2′ S 19° 20.5′ E	**Fl.(2)R.** period 5s fl. 0.3s, ec. 0.7s fl. 0.3s, ec. 3.7s		4		
32232 *D 6300*	-N. breakwater.	34° 35.0′ S 19° 20.7′ E	**Q.R.**	26 **8**	5	Tower.	
32236 *D 6304*	-S. breakwater.	34° 35.0′ S 19° 20.7′ E	**Q.G.**	26 **8**	5	Tower.	
32240 *D 6290*	Hermanus, S. breakwater.	34° 26.1′ S 19° 13.8′ E	**Fl.R.** period 3s fl. 0.3s, ec. 2.7s	22 **7**	8	White square concrete tower.	
32244 *D 6280*	**Cape Hangklip.**	34° 23.2′ S 18° 49.7′ E	**Fl.W.** period 10s fl. 0.3s, ec. 9.7s	107 **33**	**25**	White round concrete tower, black band, red lantern; 72.	
	GORDONS BAY:						
32248 *D 6262*	-W. breakwater, head.	34° 09.7′ S 18° 51.5′ E	**Q.G.**	16 **5**	7	White square concrete tower, green band; 13.	Fl.R. 5M and Fl.G. 5M mark marina 0.7 mile NW.
32252 *D 6260*	-E. breakwater, head.	34° 09.8′ S 18° 51.6′ E	**Fl.R.** period 2s fl. 0.3s, ec. 1.7s	16 **5**	7	White square concrete tower, red band; 13.	
32253 *D 6240*	Harbor Island, W. breakwater.	34° 09.1′ S 18° 51.4′ E	**Fl.R.** period 3s fl. 0.3s, ec. 2.7s	27 **8**	5	Red pole, cylindrical base; 10.	
32254 *D 6241*	-E. breakwater.	34° 09.1′ S 18° 51.4′ E	**Fl.G.** period 3s fl. 0.3s, ec. 2.7s	27 **8**	5	Green pole, cylindrical base; 10.	
32264 *D 5913*	**Tierberg,** Aero obstruction light.	33° 52.5′ S 18° 35.8′ E	**Fl.R.** period 1.7s		**18**		Obstruction lights F.R. 1.9 miles NNE. 1300 feet in height.
32268 *D 5912*	-Aero obstruction light.	33° 50.1′ S 18° 35.3′ E	**Fl.R.** period 1.7s		**18**		1300 feet in height.
32272 *D 6200*	Kalk Bay, breakwater, outer head.	34° 07.7′ S 18° 27.2′ E	**L.Fl.R.** period 15s fl. 2.5s, ec. 12.5s	22 **7**	6	Tower; 16.	
32276 *D 6224*	-Inner mole, head.	34° 07.7′ S 18° 27.1′ E	**Fl.G.** period 5s fl. 0.5s, ec. 4.5s	14 **4**	2		

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			SOUTH AFRICA				
	SIMONS BAY:						
32280 *D 6140*	**-Roman Rocks.**	34° 10.9′ S 18° 27.7′ E	**Fl.W.** period 6s fl. 0.1s, ec. 5.9s	56 **17**	**20**	White round tower, white lantern; 46.	
	-RACON		**Q(– – • –)** period 48s		12		(3 & 10cm).
32284 *D 6141*	-N. spur, breakwater, head.	34° 11.1′ S 18° 26.3′ E	**Fl.(3)W.** period 7s fl. 1s, ec. 0.5s fl. 1s, ec. 0.5s fl. 1s, ec. 3s	43 **13**	**15**	White column, red lantern; 36.	Visible 140°-290°.
32288 *D 6143*	-Outer breakwater, entrance, E. side.	34° 11.1′ S 18° 26.3′ E	**Q.R.**	27 **8**	5	White column, red lantern; 23.	
32292 *D 6143.1*	--W. side.	34° 11.2′ S 18° 26.2′ E	**Q.G.**	27 **8**	4	White column, green lantern; 23.	
32296 *D 6143.2*	--Elbow.	34° 11.3′ S 18° 26.1′ E	**Fl.R.** period 15s fl. 1s, ec. 14s	46 **14**	4	White column, red lantern; 13.	Visible 340°-220°.
32300 *D 6144*	-N. elbow of dockyard, E. breakwater.	34° 11.2′ S 18° 26.5′ E	**Oc.W.** (neon) period 4s lt. 2.5s, ec. 1.5s	57 **17**	11	Tower; 43.	Visible 055°-315°.
32302 *D 6154*	-Range, front.	34° 11.5′ S 18° 25.6′ E	**Iso.W.** period 2s		3	White building.	
32302.1 *D 6154.1*	--Rear, 139 meters 210° from front.	34° 11.5′ S 18° 25.6′ E	**Iso.R.** period 2s		3	Red brick building.	
32304 *D 6146*	-E. dockyard, breakwater.	34° 11.3′ S 18° 26.4′ E	**F.R.**	24 **7**	3	Column; 23.	
32308 *D 6150*	-W. dockyard, breakwater.	34° 11.3′ S 18° 26.2′ E	**F.G.**	24 **7**	3	Column; 23.	
32310 *D 6147*	-Range, front.	34° 11.5′ S 18° 26.5′ E	**Iso.W.** period 2s			Red pole, building, orange triangular daymark point up; 10.	
32310.1 *D 6147.1*	--Rear, 186 meters 142°30′ from front.	34° 11.6′ S 18° 26.6′ E	**Iso.R.** period 2s			Building.	
32312 *D 6151*	-New Inner Basin, W. side of entrance.	34° 11.4′ S 18° 26.2′ E	**F.G.**				
32316 *D 6151.1*	--E. side of entrance.	34° 11.0′ S 18° 26.0′ E	**F.R.**				
32318 *D 6153*	-W. dockyard, W. pier, head.	34° 11.5′ S 18° 25.8′ E	**2 F.R.** (horiz.)				
32319 *D 6176*	-Seal Island.	34° 08.2′ S 18° 35.0′ E	**Fl.W.** period 2s fl. 0.3s, ec. 1.7s		7	Metal pole; 10.	
32324 *D 6120*	**Cape of Good Hope.**	34° 21.0′ S 18° 29.0′ E	**Fl.(2+1)W.** period 30s fl. 0.6s, ec. 3.6s fl. 0.6s, ec. 12.3s fl. 0.6s, ec. 12.3s	285 **87**	**32**	Square masonry tower, white lantern; 30.	Visible 153°-106°.
			F.R.	253 **77**	**15**		Visible 299°-023°.

For continuation of lights in the Republic of South Africa, see Pub. 113.

Section 21

Islands in the Indian Ocean

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			MADAGASCAR				
32328 *D 6914*	**-Cap d'Ambre.**	11° 57.4′ S 49° 16.4′ E	**Fl.W.** period 5s fl. 0.4s, ec. 4.6s	231 **70**	**23**	Octagonal concrete tower; 105.	Visible 067°-321°. Aeromarine light.
	BAIE DE DEIGO-SUAREZ:						
32332 *D 6920*	-Ilot des Aigrettes, on summit of island.	12° 13.4′ S 49° 19.0′ E	**Oc.(2)W.R.G.** period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	59 **18**	W. 10 R. 7 G. 6	White building, black lantern; 26.	W. 272°-275°, R.-285°, G.-033°, W.-038°, R.-265°, G.-272°.
32336 *D 6922*	--Antsiranana, Port Office.	12° 16.1′ S 49° 17.3′ E	**Iso.W.R.G.** period 4s	43 **13**	W. 13 R. 10 G. 9	Yellow tower, house, black cupola; 39.	W. 021°30′-207°, G.-220°, W.-227°, R.-237°30′, obscured elsewhere. F.R. light shown on radio masts 0.9 and 1.4 miles S.W.
32340 *D 6924*	--Port Militaire, N. jetty, head.	12° 16.4′ S 49° 17.0′ E	**F.R.**	7 **2**		White metal framework tower, red bands.	
32344 *D 6925*	---Detached breakwater, N. head.	12° 16.4′ S 49° 17.0′ E	**F.G.**	7 **2**		White metal framework tower, red bands.	
32348 *D 6926*	---Entrance Range, front.	12° 16.5′ S 49° 17.1′ E	**F.G.**	20 **6**		Green pylon; 16.	Visible 089°-159°. Occasional.
32352 *D 6926.1*	----Rear, 80 meters 124° from front.	12° 16.5′ S 49° 17.2′ E	**F.W.**	52 **16**		Green metal framework tower; 20.	Visible 089°-159°. Occasional.
32356 *D 6918*	**-Cap Mine.**	12° 14.0′ S 49° 22.0′ E	**Fl.(3)W.** period 15s fl. 0.2s, ec. 2.8s fl. 0.2s, ec. 2.8s fl. 0.2s, ec. 8.8s	154 **47**	**23**	White octagonal tower, dwelling, black lantern; 46.	Visible 137°-077°.
32360 *D 6919*	-Cape Andranomady, NW. extremity.	12° 13.8′ S 49° 21.4′ E	**Fl.R.** period 4s	36 **11**	5	White octagonal stone tower, red top; 33.	Visible 060°-280°. Occasional.
	BAIE DE MANGERIVY:						
32364 *D 6930*	**-Nosy Akao.**	12° 48.3′ S 49° 49.9′ E	**Fl.(4)W.** period 20s fl. 0.3s, ec. 3s fl. 0.3s, ec. 3s fl. 0.3s, ec. 3s fl. 0.3s, ec. 9.8s	151 **46**	**19**	White octagonal tower, black top; 66.	Visible 115°-055°.
	VOHEMAR:						
32368 *D 6936*	-No 3, S. point of the N. reef Range, front.	13° 21.0′ S 50° 00.2′ E	**F.G.**	13 **4**	5	White beacon, green top; 23.	Occasional.
32372 *D 6936.1*	--Rear, W. side of bay near summit of 55 meter hill, 260° from front.	13° 21.3′ S 49° 58.3′ E	**Oc.W.** period 4s lt. 3s, ec. 1s	207 **63**	10	White pyramidal tower, hut; 26.	
32376 *D 6938*	-Beacon No 4, off N. point of S. reef.	13° 21.0′ S 50° 00.8′ E	**F.R.**	23 **7**	5	Red tower; 20.	Shown on request.
32380 *D 6939*	-Pointe de Hiarambazaha.	13° 21.3′ S 50° 00.5′ E	**F.R.**	20 **6**	3	Red and white checkered tower; 13.	Shown on request.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			MADAGASCAR				
	SAMBAVA:						
32384 *D 6942*	-Beacon C.	14° 14.0′ S 50° 07.0′ E	**Oc.(3)W.** period 12s lt. 4.5s, ec. 1.5s lt. 1.5s, ec. 1.5s lt. 1.5s, ec. 1.5s	249 **76**	10	White tower; 33.	Visible 150°-060°.
32388 *D 6943*	-Beacon A, Anchorage Range, front.	14° 15.1′ S 50° 09.3′ E	**F.R.**	30 **9**	3	White tower, red top.	Range lights shown only on request. *Temporarily extinguished (1983).*
32392 *D 6943.1*	--Rear, Beacon D, about 1079 meters 196° from front.	14° 15.8′ S 50° 09.1′ E	**F.R.**	102 **31**	7	White beacon.	Visible on range only. Shown on request.
32396 *D 6945*	Antalaha, root of pier at customhouse.	14° 53.0′ S 50° 15.0′ E	**F.R.**	20 **6**	3	Support painted red, red lantern.	Shown on request.
32400 *D 6944*	-Range, front.	14° 53.7′ S 50° 16.6′ E	**F.G.**	23 **7**	11	White beacon; 23.	Intensified 274°-279°. Occasional.
32404 *D 6944.1*	--Rear, 1000 meters 276°30′ from front.	14° 53.6′ S 50° 16.2′ E	**Oc.(2)W.** period 6s lt. 3s, ec. 3s lt. 1s, ec. 1s	269 **82**	13	Black and white beacon; 26.	Visible 126°-036°.
	RADE D' AGONTSY:						
32408 *D 6946*	**-Cap Est.**	15° 16.7′ S 50° 28.1′ E	**Fl.(2)W.** period 10s fl. 0.6s, ec. 1.9s fl. 0.6s, ec. 6.9s	229 **70**	**23**	White round tower; 69.	
32412 *D 6948.3*	**Cape Masoala.**	15° 59.2′ S 50° 13.1′ E	**Fl.(5)W.** period 20s fl. 0.3s, ec. 2.5s fl. 0.3s, ec. 2.5s fl. 0.3s, ec. 2.5s fl. 0.3s, ec. 2.5s fl. 0.3s, ec. 8.5s	262 **80**	**18**	Gray tower; 95.	Aeromarine light.
32416 *D 6948.5*	Nosy Behentona.	16° 00.3′ S 50° 09.0′ E	**Fl.(2+1)W.** period 15s fl. 1.5s, ec. 4.5s fl. 1.5s, ec. 4.5s fl. 1.5s, ec. 1.5s	105 **32**	10	Gray tower; 43.	Visible 252°-105°.
32420 *D 6947*	Nosy Mangabe, on summit of island.	15° 30.3′ S 49° 45.4′ E	**Iso.W.** period 4s	715 **218**	10	White pylon; 26.	Visible 246°-169°.
32424 *D 6948*	Maroantsetra Range, front.	15° 26.3′ S 49° 43.9′ E	**Oc.R.** period 6s lt. 4.5s, ec. 1.5s	33 **10**	5	White beacon, white square daymark, black stripe; 33.	
32428 *D 6948.1*	-Rear, 240 meters 046° from front.	15° 26.1′ S 49° 44.1′ E	**F.R.**	43 **13**		White metal framework tower, white square daymark, black stripe; 43.	Visible 040°-052°.
	MANANARA:						
32432 *D 6949.5*	-Ilot Rocheaux.	16° 09.6′ S 49° 45.0′ E	**F.R.**	25 **8**	3	White beacon, red top; 13.	
	ILE SAINTE MARIE:						
32436 *D 6950*	**-Pointe Albrand.**	16° 44.5′ S 49° 59.4′ E	**Fl.W.** period 5s	262 **80**	**22**	White metal tower, black cupola; 52.	Visible 154°-140°. Aeromarine light.
32440 *D 6956*	-Rocher aux Sorciers, Port Ste. Marie.	16° 59.7′ S 49° 50.8′ E	**F.W.R.**	59 **18**	W. 8 R. 6	White octagonal tower; 20.	R. 010°-050°, W.-189°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			MADAGASCAR				
32444 *D 6952*	-Ilot Madame, N. extremity.	17° 00.5′ S 49° 50.5′ E	**Oc.G.** period 4s lt. 3s, ec. 1s	30 **9**	5	White round tower; 26.	
32452 *D 6958*	-Ile aux Nattes, Pte. Blevec, on S. end of island.	17° 07.1′ S 49° 48.4′ E	**F.W.**	112 **34**	13	White tower, black lantern; 23.	Visible 177°-194°, 223°-265°, 273°-156°.
	FENERIVE:						
32456 *D 6960*	-Lakaria Hill.	17° 23.8′ S 49° 25.9′ E	**Oc.W.** period 6s lt. 4.5s, ec. 1.5s	177 **54**	10	White tower; 36.	Visible 122°-032°.
32460 *D 6972*	**Ile aux Prunes.**	18° 02.9′ S 49° 27.6′ E	**Fl.(3)W.** period 25s fl. 0.1s, ec. 4.9s fl. 0.1s, ec. 4.9s fl. 0.1s, ec. 14.9s	197 **60**	**23**	White octagonal stone tower, black band, black cupola; 197.	Aeromarine light.
	TAMATAVE:						
32464 *D 6973*	-Salazamay Range, front.	18° 05.7′ S 49° 24.1′ E	**Q.W.**	52 **16**	10	Pyramidal tower, white triangular daymark point up; 46.	
32468 *D 6973.1*	--Rear, 951 meters 277° from front.	18° 05.7′ S 49° 23.6′ E	**Q.W.**	75 **23**	14	White tower black band; 52.	Intensified 274°-280°.
32476 *D 6976*	**-Pte. Tanio.**	18° 08.4′ S 49° 25.1′ E	**Oc.(3)W.R.G.** period 12s lt. 4.5s, ec. 1.5s lt. 1.5s, ec. 1.5s lt. 1.5s, ec. 1.5s	115 **35**	W. **15** R. 11 G. 11	White round tower, black base, black cupola; 115.	R. 165°-192°, W.-200°, R.-209°, G.-211°, W.-217°, R.-296°, G.-298°, R.-353°. F.R. on radio mast 0.64 mile WNW.
32480 *D 6978*	-Immeuble Portuaire.	18° 09.4′ S 49° 25.5′ E	**Fl.(2+1)W.R.G.** period 15s fl. 1s, ec. 1.5s fl. 1s, ec. 5.2s fl. 1s, ec. 5.3s	89 **27**	W. 14 R. 11 G. 11	White building, gray lantern; 92.	G. 148°-184°, W.-193°, R.-253°, W.-104°.
32487 *D 6980*	-Range, front.	18° 09.4′ S 49° 25.5′ E	**F.G.**	46 **14**	5	Building, red lantern.	Visible 148°-178°.
32487.1 *D 6980.1*	--Rear, 17 meters 163° from front.	18° 09.5′ S 49° 25.4′ E	**F.R.**	66 **20**	6	Port office; 62.	Visible 148°-178°.
32492 *D 6982*	-Landing place.	18° 09.5′ S 49° 25.5′ E	**F.G.**	16 **5**	4	White column, black top; 13.	
32496 *D 6988*	Mahanoro.	19° 54.5′ S 48° 49.2′ E	**Oc.W.** period 6s lt. 4.5s, ec. 1.5s	75 **23**	10	White metal tower, black cupola; 46.	Visible 178°-030°.
	MANANJARY:						
32500 *D 6994*	-Entrance Range, front.	21° 14.0′ S 48° 21.0′ E	**Q.R.**	26 **8**	8	White rectangular daymark; 20.	Visible 134°-044°. Partially obscured.
32504 *D 6994.1*	--Rear, 1198 meters 269° from front.	21° 14.0′ S 48° 20.4′ E	**F.R.**	58 **18**	**15**	White pyramidal tower, white daymark; 43.	Visible 266°-272°. Partially obscured.
32508 *D 6995*	-Traverse Range, front.	21° 13.4′ S 48° 21.3′ E	**Oc.G.** period 4s lt. 3s, ec. 1s	48 **15**	12	Black beacon, white bands; 33.	Intensified 328°-334°.
32512 *D 6995.1*	--Rear, 400 meters 331° from front.	21° 13.0′ S 48° 21.1′ E	**F.G.**	58 **18**	12	Black beacon, white bands; 39.	Intensified 328°-334°.
32516 *D 6992*	-Water tower.	21° 14.0′ S 48° 20.0′ E	**Oc.(2)W.** period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	118 **36**	12	White tower; 85.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			MADAGASCAR				
	MANAKARA:						
32520 *D 6998*	-Approach Range, front.	22° 07.0′ S 48° 01.0′ E	**F.G.**	48 **15**	9	Black beacon, white bands; 39.	Visible 311°-319°.
32524 *D 6998.1*	**--Emokala,** rear, 1056 meters 315° from front.	22° 07.2′ S 48° 01.2′ E	**Fl.(4)W.** period 25s	144 **44**	**26**	White octagonal tower, black top; 95.	Reserve light F.W. Aeromarine light.
32528 *D 7000*	-Range, front.	22° 08.0′ S 48° 01.0′ E	**Q.W.**	23 **7**	12	White tower, black top; 20.	Visible 151°-061°.
32532 *D 7000.1*	-Rear, 820 meters 286° from front.	22° 07.9′ S 48° 00.9′ E	**Q.W.**	62 **19**	**16**	White tower, black top; 43.	Visible 283°30′-288°30′.
32536 *D 7004*	-Range, front.	22° 08.0′ S 48° 01.0′ E	**F.G.**	20 **6**		White column; 13.	
32540 *D 7004.1*	--Rear, 45 meters 241° from front.	22° 08.2′ S 48° 01.4′ E	**F.G.**	33 **10**		White column; 20.	
32544 *D 7006*	-Residency beacon.	22° 09.2′ S 48° 01.2′ E	**Oc.(2)W.R.G.** period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	46 **14**	W. 12 R. 9 G. 8	White octagonal tower, black top; 36.	G. 200°-237°, W.-247°, R.-020°.
32548 *D 7014*	Charbonnier.	22° 49.5′ S 47° 49.5′ E	**Oc.W.** period 6s lt. 4.5s, ec. 1.5s	69 **21**	10	White octagonal tower, black band; 52.	Visible 140°-320°.
32552 *D 7018*	**Pointe d'Itaperina.**	24° 59.0′ S 47° 05.8′ E	**Fl.W.** period 5s fl. 0.5s, ec. 4.5s	338 **103**	**18**	White tower; 33.	
	FORT DAUPHIN:						
32556 *D 7019*	-Entrance Range, front.	25° 01.5′ S 46° 59.5′ E	**Oc.W.** period 4s lt. 3s, ec. 1s	82 **25**	**18**	White stepped beacon, black stripe, black lantern; 33.	Intensified 237°30′-242°30′.
32560 *D 7019.1*	--Rear, 260 meters 239°30′ from front.	25° 01.6′ S 46° 59.4′ E	**Oc.W.** period 4s	154 **47**	**18**	White beacon, black stripe, black lantern; 26.	Sync with front. Intensified 237°30′-242°30′.
32564 *D 7020*	-Second Range, front.	25° 01.5′ S 47° 00.0′ E	**F.R.**	39 **12**	7	White square tower, red lantern; 39.	
32568 *D 7020.1*	--Rear, 40 meters 155° from front.	25° 01.6′ S 47° 00.0′ E	**Oc.(2)W.** period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	125 **38**	**15**	White hexagonal tower, red lantern; 39.	Visible 084°-354°.
32572 *D 7021*	-Pier, head.	25° 01.6′ S 46° 59.8′ E	**F.G.**	20 **6**	6	Black and white column; 10.	F.R. on T.V. mast about 150 meters SE.
32576 *D 7022*	**Cap Sainte Marie.**	25° 35.7′ S 45° 08.6′ E	**Fl.W.** period 10s	630 **192**	**23**	Square masonry tower, white corners; 59.	
	BAIE DE ST. AUGUSTIN:						
32580 *D 7024*	-Tulear Range, front.	23° 22.0′ S 43° 38.0′ E	**Q.R.**	39 **12**	10	White round concrete tower; 26.	Intensified 111°30′-117°30′.
32584 *D 7024.1*	--Anosy Beacon, rear, 200 meters 114°30′ from front.	23° 21.5′ S 43° 38.4′ E	**Oc.(2)W.** period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	62 **19**	10	White square tower, gray lantern; 59.	
32588 *D 7025*	-Range, front, on reef.	23° 23.4′ S 43° 39.0′ E	**Q.G.**	46 **14**	5	White column, black and white lantern; 23.	
32592 *D 7025.1*	--Rear, 900 meters 148° from front.	23° 23.9′ S 43° 39.3′ E	**Q.G.**	52 **16**	5	White column, black and white lantern; 30.	
32598 *D 7026.5*	**Ile Europa.**	22° 20.1′ S 40° 20.3′ E	**Fl.R.** period 5s fl. 1s, ec. 4s	69 **21**	**15**	Round pylon; 52.	

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			MADAGASCAR				
	MOROMBE:						
32600 *D 7027*	-Nosy Lava.	21° 43.9′ S 43° 17.6′ E	**Oc.W.** period 6s lt. 4.5s, ec. 1.5s	92 **28**	10	White square tower, black lantern; 56.	
32604 *D 7028*	-Range, front.	21° 45.0′ S 43° 20.9′ E	**F.R.**	56 **17**	9	White beacon, black bands; 33.	Intensified 127°-139°. On request.
32608 *D 7028.1*	--Rear, 645 meters 133° from front.	21° 45.1′ S 43° 21.2′ E	**F.R.**	79 **24**	9	White beacon, black stripe; 49.	Intensified 127°-139°. On request.
32612 *D 7029*	Balise de Betaolampia.	20° 25.2′ S 44° 13.6′ E	**Oc.(2)W.R.G.** period 9s lt. 4.5s, ec. 1.5s lt. 1.5s, ec. 1.5s	219 **67**	W. 10 R. 7 G. 6	Wall, two white rectangular daymarks; 43.	W. 088°-105°, R.-114°, W.-135°, R.-162°, W.-185°, G.-200°.
32616 *D 7030*	Morondava.	20° 17.5′ S 44° 16.8′ E	**Oc.W.R.** period 4s lt. 3s, ec. 1s	98 **30**	W. 14 R. 10	Water tower; 98.	W. 050°-063°30′, R.-073°, W.-320°.
32620 *D 7032*	Maintirano.	18° 03.8′ S 44° 01.2′ E	**F.W.**	95 **29**	10	White octagonal tower; 39.	
32624 *D 7033*	Ile Juan de Nova.	17° 03.0′ S 42° 42.6′ E	**Fl.R.** period 4s fl. 1s, ec. 3s	121 **37**	8	Gray pylon; 89.	Partially obscured by vegetation.
32628 *D 7033.7*	**Cap Saint Andre.**	16° 11.5′ S 44° 26.9′ E	**Fl.(2)W.** period 10s	85 **26**	**20**	White metal pylon; 75.	
32636	*Passe d'Ampajony Lighted Buoy.*	15° 24.0′ S 46° 14.0′ E	**Q.W.**			Red and white striped buoy, "X" topmark.	**Radar reflector.**
	BAIE DE BOMBETOKE:						
32640 *D 7034*	**-Pointe Katsepe.**	15° 42.9′ S 46° 13.0′ E	**Fl.W.** period 10s	397 **121**	**23**	White tower, black band, black cupola; 131.	
32644 *D 7037*	-Pointe de Sable.	15° 43.7′ S 46° 18.3′ E	**Oc.(2+1)W.** period 12s lt. 4s, ec. 1s lt. 4s, ec. 1s lt. 1s, ec. 1s	36 **11**	12	White tower, black cupola; 33.	Visible 328°-148°. Partially obscured by trees.
32648 *D 7041*	-Jetee Schneider.	15° 42.7′ S 46° 17.7′ E	**Oc.(2)R.** period 8s lt. 3s, ec. 2s lt. 1s, ec. 2s	30 **9**	5	White hexagonal tower, red lantern; 16.	
32652 *D 7036*	-Anorombato Pointe, E. side of entrance.	15° 42.9′ S 46° 18.0′ E	**Oc.(3)W.R.G.** period 12s lt. 4.5s, ec. 1.5s lt. 1.5s, ec. 1.5s lt. 1.5s, ec. 1.5s	137 **42**	W. 14 R. 10 G. 9	White tower, black band, black cupola; 36.	G. 303°-116°, W.-122°, R.-145°, W.-167°, G.-186°, W.-213°.
32656 *D 7043*	-AMBOROVY AVIATION LIGHT.	15° 40.2′ S 46° 20.9′ E	**Fl.(4)W.** period 12s 4 fl. 6s, ec. 6s				
32660 *D 7035*	-Nosy Beza Range, front.	15° 45.9′ S 46° 20.0′ E	**Iso.W.** period 4s	62 **19**	13	White framework tower, black top, white trapezoidal daymark; 59.	Intensified 129°-135°.
32664 *D 7035.1*	--Rear, 5.4 kilometers 132° from front.	15° 47.9′ S 46° 22.2′ E	**Oc.W.** period 6s lt. 4.5s, ec. 1.5s	190 **58**	13	White tower; 62.	Intensified 129°-135°.
32672 *D 7048*	Analalava.	14° 38.2′ S 47° 45.5′ E	**Oc.(2)W.R.G.** period 6s lt. 3s, ec. 1s lt. 1s, ec. 1s	203 **62**	W. 10 R. 7 G. 6	White tower, black lantern; 39.	G. 065°-092°, W.-095°, R.-142°. A F.R. is shown from the jetty.
32676 *D 7050*	Ampasikely.	14° 37.3′ S 47° 45.4′ E	**F.W.R.**	62 **19**	W. 5 R. 3	White metal column, square support; 26.	W. 049°-059°, R.-071°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			MADAGASCAR				
32680 *D 7052*	**Nosy Lava.**	14° 32.4′ S 47° 36.7′ E	**Fl.(2)W.** period 10s fl. 0.3s, ec. 2.2s fl. 0.3s, ec. 7.2s	400 **122**	**20**	Black and white metal tower; 59.	Visible 325°-295°. Aeromarine light.
32684 *D 7056*	**Nosy Iranja.**	13° 35.8′ S 47° 49.3′ E	**Fl.W.** period 5s fl. 0.6s, ec. 4.4s	245 **75**	**17**	White tower, black top; 66.	Visible 348°-240°.
32688 *D 7058*	Tany Kely, entrance of Baie d' Ampasindava.	13° 28.9′ S 48° 14.2′ E	**Fl.(3)W.** period 15s fl. 1.5s, ec. 1.5s fl. 1.5s, ec. 1.5s fl. 1.5s, ec. 7.5s	187 **57**	11	White tower, black top, black lantern; 33.	Aeromarine light.
32692 *D 7062*	Nosy Vorona, summit of island.	13° 25.5′ S 48° 21.9′ E	**Fl.(2)W.R.** period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	52 **16**	W. 8 R. 5	White octagonal tower, red lantern; 26.	W. 072°-080°, R.-232°, W.-280°, R.-072°.
32708 *D 7065*	Ampasimena Range, front.	13° 24.0′ S 48° 17.5′ E	**Q.G.**	23 **7**	11	White beacon, black stripe; 26.	Intensified 014°30′-019°30′.
32712 *D 7065.1*	-Rear, 600 meters 017° from front.	13° 23.8′ S 48° 17.2′ E	**Q.G.**	79 **24**	11	White beacon, black stripe; 20.	Intensified 014°30′-019°30′.
32716 *D 7068*	Nosi Faly, summit.	13° 19.3′ S 48° 28.5′ E	**Fl.W.R.** period 4s	246 **75**	W. 8 R. 6	White octagonal tower, black lantern; 30.	W. 026°-236°, R.-026°.
32720 *D 7069*	Port St. Louis, entrace Range, front.	13° 05.3′ S 48° 49.8′ E	**Q.R.**	36 **11**	6	Metal framework tower, white trapezoidal daymark, red stripe; 36.	Visible 020°-200°.
32724 *D 7069.1*	-Rear, 1646 meters 110° from front.	13° 05.6′ S 48° 50.7′ E	**Q.R.**	59 **18**	**16**	Metal framework tower, white trapezoidal daymark, red stripe; 52.	Intensified 108°-112°.
32728 *D 7070*	Nosi Anambo (Woody Island).	12° 15.8′ S 48° 38.2′ E	**Oc.(3)W.R.** period 12s lt. 4.5s, ec. 1.5s lt. 1.5s, ec. 1.5s lt. 1.5s, ec. 1.5s	138 **42**	W. 14 R. 10	White metal framework tower, red top; 89.	W. 059°-237°, R.-059°.
			COMOROS				
32732 *D 6882.1*	-Vigie.	12° 10.1′ S 44° 23.9′ E	**Q.W.**	276 **84**	5	White square tower, black bands; 16.	
32736 *D 6883*	-Jetty, head.	12° 10.0′ S 44° 23.4′ E	**Oc.(2)R.** period 5s	44 **13**		Hut, red lantern.	**Aero Radiobeacon** 3 miles NE.
	MORONI GRANDE COMORE:						
32748 *D 6904.1*	-Suadzu Islet Range, rear, 220 meters 105° from front.	11° 42.1′ S 43° 15.1′ E	**Q.R.**	69 **21**	7	White minaret.	Partially obscured by buildings. Unlit front beacon.
32752 *D 6902*	-Moroni.	11° 42.2′ S 43° 15.1′ E	**Q.W.**	85 **26**	10	White minaret; 75.	**Aero Radiobeacon** 0.9 mile NNE.
	MAYOTTE (FR):						
32760 *D 6896*	-Ilot Dzaoudzi, W. jetty, head.	12° 47.0′ S 45° 15.2′ E	**Fl.(2)G.** period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	26 **8**	7	White post, black top, stone structure; 10.	Visible 300°-210°.
32764 *D 6897*	--E. jetty, head.	12° 46.9′ S 45° 15.5′ E	**Fl.R.** period 4s fl. 1s, ec. 3s	20 **6**	7	White post, red top, stone structure; 10.	Visible 135°-045°.
32766 *D 6894.6*	-Pamanzi Range, front.	12° 46.4′ S 45° 16.4′ E	**V.Q.W.**	36 **11**	12		Intensified 139°30′-142°30′.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			COMOROS				
32766.1 *D 6894.61*	-Rear, 1700 meters 141° from front.	12° 47.1′ S 45° 17.0′ E	**V.Q.W.**	164 **50**	8		Intensified 132°-150°.
32768 *D 6900*	-Bandele Passage Range, front.	12° 52.5′ S 45° 13.2′ E	**Q.R.**	69 **21**	5	White octagonal pyramidal tower, red band; 26.	Intensified 284°-302°. **Aero Radiobeacon** 5.8 miles NE, on Pamanzi.
32772 *D 6900.1*	--Rear, 273 meters 292°42′ from front.	12° 52.4′ S 45° 12.9′ E	**Q.R.**	177 **54**	5	White octagonal pyramidal tower, red band; 26.	Intensified 284°-302°.
32776 *D 6898*	-Mamutzu, jetty, head.	12° 46.7′ S 45° 14.0′ E	**Fl.(4)R.** period 15s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 1.5s fl. 1s, ec. 6.5s	13 **4**	7	White post; 10.	
32777 *D 6891*	-Cap Douamougno.	12° 41.1′ S 45° 06.4′ E	**Iso.W.R.G.** period 4s	358 **109**	10	Beacon; 23.	G. 185°12'-190°12', W.-193°12', R.-197°12. In line 202° with Dziani Bole summit.
32777.1 *D 6892.6*	-S. Jumeaux Reef.	12° 39.9′ S 45° 08.1′ E	**Q.(6)+L.Fl.W.** period 15s	23 **7**	3	S. CARDINAL YB, beacon, topmark.	
32777.2 *D 6892*	-Ile M'Songoma Range, front.	12° 41.4′ S 45° 07.7′ E	**V.Q.W.**	92 **28**	13	Beacon.	Intensified 172°30′-175°30′.
			V.Q.W.R.G		W. 10 R. 7 G. 7		G. 279°-290°, W.-292°, R.-296°.
32777.21 *D 6892.1*	--Rear, 1300 meters 174° from front.	12° 42.1′ S 45° 07.8′ E	**V.Q.W.**	148 **45**	11	Beacon.	Intensified 165°-183°.
32777.4 *D 6892.5*	-Vancluse Reef.	12° 39.4′ S 45° 07.3′ E	**Fl.(4)G.** period 15s	29 **9**	4	White beacon, triangular daymark point up.	
32777.5 *D 6894*	-Isle Blanche Range, front.	12° 43.1′ S 45° 10.4′ E	**V.Q.W.**	33 **10**	9	Beacon.	
32777.51 *D 6894.05*	--Rear, 140° from front.	12° 43.7′ S 45° 11.0′ E	**V.Q.W.**			Beacon.	
32777.62 *D 6893.6*	-Longoni Reef.	12° 42.7′ S 45° 09.8′ E	**Q.(9)W.** period 15s	30 **9**	6	Yellow beacon, black band.	
	ALDABRA:						
32778 *D 6879*	-West Island.	9° 23.7′ S 46° 12.5′ E	**Fl.W.** period 2s	56 **17**	12	White beacon, red bands.	
			SEYCHELLES				
	AMIRANTE ISLES:						
32780 *D 6873*	-African Island, center of North Island.	4° 52.8′ S 53° 23.2′ E	**Q.(2)W.** period 10s	102 **31**	10	White metal framework tower.	
32785 *D 6875*	-Remire Island.	5° 07.0′ S 53° 18.8′ E	**Q.W.**	46 **14**	10		
	MAHE ISLAND, PORT VICTORIA:						
32792 *D 6866*	-AVIATION LIGHT, island, NE. point.	4° 34.9′ S 55° 27.8′ E	**Fl.R.**	410 **125**		Red and white metal framework tower; 10.	Visible 202°30′-000°30′. Shown 24 hours.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			SEYCHELLES				
32796 *D 6868*	-Victoria.	4° 37.1′ S 55° 28.2′ E	**Fl.W.** period 6s	38 **12**	7	White round masonry tower; 36.	R. lights on radio mast 1.5 miles W. F.R. and 2 F.R. on radio mast 2.8 miles SSW. Fl.R. (occas.) 2.1 miles S. and 3.3 miles SSE.
	-AVIATION LIGHT.		**Q.W.**				Visible from NE only. Occasional.
32800 *D 6865*	-Saint Anne Island, summit AVIATION LIGHT.	4° 36.3′ S 55° 30.2′ E	**F.R.**	827 **252**		White building; 13.	Shown by day.
32804 *D 6867*	-Range, front.	4° 37.8′ S 55° 28.4′ E	**Oc.R.**			Orange beacon.	Visible 200°-220°. Leading lights may be obscured when high intensity stadium lights are in use.
32808 *D 6867.1*	-Rear, 1646 meters 210° from front.	4° 38.6′ S 55° 28.0′ E	**Oc.R.**			Orange beacon.	Visibile 200°-220°.
			F.R.				
32810.5 *D 6867.32*	-Inter Island Quay.	4° 37.2′ S 55° 27.5′ E	**Oc.R.** period 4s			Orange beacon.	
32811.1 *D 6867.5*	-No 9.	4° 37.2′ S 55° 27.9′ E	**Fl.G.** period 5s			PORT (B) G, beacon, topmark.	
32812 *D 6870*	-Police Point, S. extremity.	4° 48.3′ S 55° 31.2′ E	**Fl.(2)W.** period 15.4s fl. 0.7s, ec. 3s fl. 0.7s, ec. 11s	202 **62**	7	White masonry tower; 7.	Visible 276°-128°.
32816 *D 6871*	-Cape Ternay.	4° 38.4′ S 55° 22.0′ E	**Q.(2)W.** period 10s	68 **21**	10	White concrete tower.	Visible 026°-221°.
	MAHE ISLAND:						
32820 *D 6864*	-Mamelle Island, summit.	4° 29.1′ S 55° 32.4′ E	**Fl.W.** period 2.5s fl. 0.2s, ec. 2.3s	161 **49**	11	White square stone structure, red roof; 20.	
32824 *D 6862*	Praslin Island, St. Anns Bay, Point Cabris.	4° 21.1′ S 55° 46.3′ E	**Fl.W.** period 10s	52 **16**	5	White masonry tower.	Visible 222°-055°.
32828 *D 6862.4*	-Zanguilles Point.	4° 18.3′ S 55° 44.2′ E	**Q.W.**	52 **16**	5	White round masonry tower.	Visible 117°-133°30′ and 197°-284°.
32832 *D 6861*	Praslin Island, Grande Anse Range, front.	4° 20.3′ S 55° 43.1′ E	**Fl.W.** period 3s fl. 0.3s, ec. 2.7s	10 **3**	5	White square masonry tower.	Unlit rear red beacon, triangular topmark point up, 028° from front.
32840 *D 6863*	-La Digue Island.	4° 20.8′ S 55° 49.6′ E	**Fl.W.** period 5s	20 **6**	5	White square stone tower.	Visible 026°-186°.
32844 *D 6860*	Denis Island, N. side.	3° 47.9′ S 55° 39.9′ E	**Fl.W.** period 5s fl. 0.8s, ec. 4.2s	120 **37**	10	White metal tower; 89.	
			MAURITIUS				
32848 *D 7102*	**Flat Island.**	19° 52.9′ S 57° 39.0′ E	**Fl.(4)W.** period 30s	364 **111**	**29**	White concrete tower, red lantern; 52.	
32852 *D 7096*	**Pointe aux Caves.**	20° 11.5′ S 57° 24.7′ E	**Fl.(2)W.** period 10s fl. 0.2s, ec. 1.6s fl. 0.2s, ec. 8s	152 **46**	**29**	White concrete tower, two red bands; 95.	F.R. lights on 3 radio masts 11 miles SSE. **Aero Radiobeacon** 6.8 miles SW.
	Auxiliary light.		**F.R.**	99 **30**	10		Visible 216°-245°.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			MAURITIUS				
	PORT LOUIS:						
32861 *D 7101*	-Entrance Range, front.	20° 09.5′ S 57° 29.9′ E	**Oc.R.** period 10s lt. 7.5s, ec. 2.5s	128 **39**	13	Red and white metal structure.	
32861.5 *D 7101.1*	--Rear, 496 meters 127°30′ from front.	20° 09.6′ S 57° 30.2′ E	**Dir.W.R.G.**	226 **69**	**17**	Bank building, white diamond topmark.	Fl.G.121°54′-124°06′, F.G.-125°01′, Al.G.W.-127°13′, F.W.-127°47′, Al.W.R.-129°59′, F.R.-130°54′, Fl.R.-133°06′.
32872 *D 7097*	-Martello Tower.	20° 10.1′ S 57° 28.3′ E	**Al.Iso.W.G.** period 4s W. lt. 1s, ec. 1s G. lt. 1s, ec. 1s	79 **24**	10	White stone tower, black stripe, 39.	
32880 *D 7104*	AVIATION LIGHT.	20° 26.0′ S 57° 40.6′ E	**Mo.(P)W.**				
			REUNION (FR.)				
32884 *D 7073*	Ile Tromelin.	15° 53.3′ S 54° 30.5′ E	**Fl.R.** period 4s fl. 1s, ec. 3s	49 **15**	8	White round post, building; 33.	
32888	Albatross Island.	16° 14.4′ S 59° 35.4′ E	**Fl.(2)W.** period 20s fl. 1s, ec. 1s fl. 1s, ec. 17s	30 **9**	12		May be obscured from northward by trees.
32892 *D 6881.6*	Coco Island.	16° 48.9′ S 59° 30.2′ E	**Fl.(3)W.** period 30s	27 **8**	12		
	PORT DES GALETS:						
32896 *D 7077*	**-Le Port.**	20° 56.1′ S 55° 17.1′ E	**Fl.(2)W.** period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	174 **53**	**21**	Gray cement silo; 187.	
32900 *D 7080*	-Entrance Range, front.	20° 56.3′ S 55° 17.3′ E	**Q.W.**	65 **20**	8	White pylon, white square daymark, black stripe, red border; 36.	Visible 097°48′-106°48′.
32904 *D 7080.1*	--Rear, about 80 meters 102°30′ from front.	20° 56.3′ S 55° 17.3′ E	**Q.W.**	92 **28**	8	White pylon, white rectangular daymark, black stripe, red border; 56.	Visible 097°48′-106°48′.
32908 *D 7078*	-S. jetty, head.	20° 56.2′ S 55° 16.9′ E	**Fl.(2)G.** period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	56 **17**	7	White pylon, green top; 36.	
32912 *D 7081.9*	-N. jetty, head.	20° 56.2′ S 55° 16.9′ E	**Fl.(2)R.** period 6s fl. 1s, ec. 1s fl. 1s, ec. 3s	56 **17**	7	White pylon, red top; 36.	
32920 *D 7082.3*	-N. basin.	20° 55.9′ S 55° 17.2′ E	**Dir.W.R.G.** period 4s	72 **22**	W. 9 R. 6 G. 6	White pylon, red sign, white background.	Oc.G. 006°30′-008°30′, Oc.W.-009°30′, Oc.R.-011°30′.
32928 *D 7083*	-S. basin Range, front.	20° 56.4′ S 55° 17.1′ E	**Iso.G.** period 4s	59 **18**	4	Green pylon, white rectangular daymark, black stripe; 33.	Visible 175°-230°.
32932 *D 7083.1*	--Rear, 60 meters 189° from front.	20° 56.5′ S 55° 17.1′ E	**Iso.G.** period 4s	69 **21**	5	Green pylon, white rectangular daymark, black stripe; 39.	Visible 175°-230°.
32936 *D 7083.4*	-Fish basin Range, front.	20° 56.3′ S 55° 17.0′ E	**Q.G.**	36 **11**	3	White column, white rectangular daymark, black stripe; 23.	Visible 261°12′-270°12′.
32940 *D 7083.41*	--Rear, 35 meters 265°42′ from front.	20° 56.3′ S 55° 17.0′ E	**Q.G.**	42 **13**	3	White column, white rectangular daymark, black stripe; 13.	Visible 261°12′-270°12′.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			REUNION (FR.)				
32948 *D 7083.61*	-Dir. Lt., 162°.	20° 56.3′ S 55° 19.5′ E	**Dir.W.R.G.**	125 **38**	W. 4 R. 2 G. 2	White tower, black stripes.	Fl.G. 157°-158°45′, F.G. 159°45′, Al.W.G. 161°48′, F.W. 162°12′, Al.W.R. 164°15′, F.R. 165°15′, Fl.R. 167°.
32952 *D 7083.75*	-W. jetty, head.	20° 55.6′ S 55° 19.1′ E	**Fl.G.** period 4s fl. 1s, ec. 3s	49 **15**	7	White tower, green top; 33.	
32956 *D 7083.7*	-E. jetty, head.	20° 55.6′ S 55° 19.3′ E	**Fl.R.** period 4s fl. 1s, ec. 3s	49 **15**	7	White tower, red top; 33.	
32970 *D 7083.93*	Saint Marie, W. breakwater.	20° 53.5′ S 55° 32.2′ E	**Fl.G.** period 2.5s	36 **11**	3	White metal tower, green top.	
32970.2 *D 7083.95*	-E. breakwater.	20° 53.5′ S 55° 32.3′ E	**Fl.R.** period 2.5s	36 **11**	3	White metal tower, red top.	
32972 *D 7084*	**Pointe de Bel Air.**	20° 54.1′ S 55° 36.1′ E	**Fl.(3)W.** period 15s fl. 0.4s, ec. 2.6s fl. 0.4s, ec. 2.6s fl. 0.4s, ec. 8.6s	157 **48**	**23**	Red and white tower, green cupola; 82.	Visible 109°-331°. **Aero Radiobeacon** 5.3 miles W.
32976 *D 7086*	Pointe de la Table.	21° 19.7′ S 55° 48.1′ E	**Oc.(2)W.** period 6s lt. 1s, ec. 1s lt. 3s, ec. 1s	197 **60**	8	White pylon; 20.	
	SAINT-PIERRE:						
32978 *D 7089.05*	-Terre Sainte jetty, head.	21° 20.9′ S 55° 28.7′ E	**Fl.W.G.** period 4s	43 **13**	W. 10 G. 7	White pylon, green top.	W. 323°-060°, G.-323°.
32980 *D 7088*	-Entrance Range, front.	21° 20.7′ S 55° 28.8′ E	**Q.G.**	23 **7**	3	White pylon; 20.	Visible 024°42'-033°42'.
32984 *D 7088.1*	--Rear, 60 meters 029°12′ from front.	21° 20.7′ S 55° 28.8′ E	**Q.G.**	36 **11**	3	White pylon; 33.	Visible 024°42'-033°42'.
32988 *D 7089*	-Jetty, head.	21° 20.8′ S 55° 28.7′ E	**Fl.R.** period 4s fl. 1s, ec. 3s	26 **8**	3	Red post; 13.	
	ETANG SALE:						
32992 *D 7089.4*	-Entrance Range, front.	21° 15.8′ S 55° 19.9′ E	**Q.R.**	16 **5**	5	White masonry tower, red top, white rectangular daymark, red stripe; 10.	**Aero Radiobeacon** 1.8 miles ESE.
32996 *D 7089.41*	--Rear, 60 meters 089° from front.	21° 15.0′ S 55° 20.4′ E	**Q.R.**	23 **7**	5	White masonry tower, red top, white rectangular daymark, red stripe; 20.	
33000 *D 7090*	Saint-Leu, jetty, head.	21° 10.1′ S 55° 17.1′ E	**Fl.G.** period 4s fl. 1s, ec. 3s	30 **9**	5	White post, green top.	
	SAINT GILLES LES BAINS:						
33004 *D 7091*	-W. jetty, head.	21° 03.3′ S 55° 13.3′ E	**Oc.(2)G.** period 6s lt. 1s, ec. 1s lt. 3s, ec. 1s	39 **12**	7	White structure, green top; 26.	
33008 *D 7091.2*	-E. jetty, head.	21° 03.3′ S 55° 13.4′ E	**Oc.(2)R.** period 6s lt. 1s, ec. 1s lt. 3s, ec. 1s	30 **9**	5	White structure, red top; 26.	
33012 *D 7091.4*	-Entrance Range, front.	21° 03.3′ S 55° 13.4′ E	**Q.W.**	13 **4**	4	White column.	Visible 156°30′-165°30′.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			REUNION (FR.)				
33016 *D 7091.41*	--Rear, 45 meters 161° from front.	21° 03.3′ S 55° 13.4′ E	**Q.W.**	26 **8**	4	White column.	Visible 156°30′-165°30′.
33020 *D 7092*	Saint-Paul.	21° 00.5′ S 55° 16.1′ E	**Oc.W.** period 4s lt. 3s, ec. 1s	65 **20**	9	White pylon; 59.	
			RODRIGUES ISLAND				
	MATHURIN BAY:						
33028 *D 7114*	-Port Mathurin Range, front.	19° 40.8′ S 63° 25.4′ E	**Iso.R.** period 5s	25 **8**	5	White triangular daymark point up.	Occasional.
33032 *D 7114.1*	--Rear, about 420 meters 165°30′ from front.	19° 41.0′ S 63° 25.5′ E	**Iso.R.** period 5s	212 **65**	10	White triangular daymark point down.	Occasional.
			CHAGOS ARCHIPELAGO				
33036 *K 0800*	Diego Garcia AVIATION LIGHT.	7° 18.5′ S 72° 24.7′ E	**Al.Fl.W.G.** period 10s	132 **40**	12	Control tower.	
33040 *K 0801*	-West Island.	7° 14.9′ S 72° 23.1′ E	**Fl.(2)W.** period 5s	33 **10**	6	Silver framework tower, orange and black checkered diamond daymark.	
33044 *K 0805*	-Small boat basin breakwater, head.	7° 17.3′ S 72° 23.4′ E	**Fl.R.** period 2s				
33050 *K 0805.6*	--Wharf, head.	7° 17.4′ S 72° 23.5′ E	**Fl.G.** period 5s				
33052 *K 0806*	--Harbor control tower.	7° 17.4′ S 72° 23.6′ E	**F.R.**			Concrete tower.	
33056 *K 0802*	-Observatory Point.	7° 14.3′ S 72° 26.1′ E	**Fl.W.** period 4s	33 **10**	5	White framework tower, orange and black checkered diamond daymark.	
33060 *K 0807*	-Trig station Bolt, Leconte Point.	7° 16.6′ S 72° 28.1′ E	**Fl.R.** period 2.5s	33 **10**	3	White framework tower, orange and black checkered diamond daymark.	
33064 *K 0808.5*	**-Minni Minni.**	7° 19.5′ S 72° 28.5′ E	**Dir.W.R.G.**	46 **14**	W. **20** R. **16** G. **16**	Round stainless steel tower, platform; 46.	F.G. 133°12′-133°48′, F.W.-134°12′, F.R.-134°48′. Range 8/6M by day.
			ILES CROZET (FR.)				
	ILE DE LA POSSESSION:						
	-Port Alfred:						
33072 *D 7119.5*	--Anchorage Range, Cap Seince.	46° 25.4′ S 51° 52.3′ E	**2 F.G.**		6	Black beacons, white stripes.	Lights in line 296° 70 meters apart.
33076 *D 7119.51*	---Cap Lieutard.	46° 25.8′ S 51° 52.5′ E	**2 F.R.**		7	Black beacons, white stripes.	Lights in line 212° 46 meters apart.
			ILE AMSTERDAM (FR.)				
33080 *K 0822*	Pointe Hosken, SE anchorage Range, front.	37° 49.0′ S 77° 34.0′ E	**Q.R.**		2	Red and white checkered beacon.	Occasional.

(1) No.	(2) Name and Location	(3) Position	(4) Characteristic	(5) Height	(6) Range	(7) Structure	(8) Remarks
			ILE AMSTERDAM (FR.)				
33084 *K 0822.1*	-Rear, 390 meters 246°30′ from front.	37° 48.0′ S 77° 32.5′ E	**Q.R.**		2	Red and white checkered beacon.	Occasional.
33088 *K 0822.4*	-NW. anchorage Range, front.	37° 49.0′ S 77° 34.0′ E	**Q.G.**		2	Black and white checkered beacon.	Occasional.
33092 *K 0822.41*	--Rear, 110 meters 224°30′ from front.	37° 47.4′ S 77° 31.5′ E	**Q.G.**		2	Black and white checkered beacon.	Occasional.
			ILES DE KERGUELEN (FR.)				
	PRESQU'ILE COURBET:						
33096 *K 0820*	-Pointe Molloy.	49° 22.0′ S 70° 04.8′ E	**Fl.R.** period 2.5s fl. 0.5s, ec. 2s	49 **15**	3	White beacon.	
33100 *K 0820.4*	-Baie du Morbihan Range, front.	49° 21.0′ S 70° 04.7′ E	**Q.W.**	16 **5**	12	White beacon, black chevron point up.	
33104 *K 0820.41*	--Rear, 320 meters 314°30′ from front.	49° 21.0′ S 70° 04.4′ E	**Q.W.**	65 **20**	12	White beacon, black chevron point down	
33106 *K 0819*	--Ile Murray.	49° 31.1′ S 70° 15.5′ E	**Fl.(3)W.** period 12s	160 **49**	11		
33107 *K 0821.5*	--Ile Channer.	49° 22.9′ S 70° 11.1′ E	**Q.(9)W.** period 15s	33 **10**	6	W. CARDINAL YBY, beacon, topmark.	
	-Port Aux Francais:						
33108 *K 0821.4*	--Anchorage Range, front.	49° 21.1′ S 70° 12.2′ E	**Q.R.**	23 **7**	12	White beacon, red stripe.	Visible on range line only.
33112 *K 0821.41*	---Rear, 150 meters 329° from front.	49° 21.2′ S 70° 12.4′ E	**F.R.**	69 **21**	12	White beacon, red stripe.	Visible on range line only.
33120 *K 0821*	--Entrance Range, front.	49° 21.3′ S 70° 13.7′ E	**Q.G.**	26 **8**	12	Black and white checkered beacon.	Visible on range line only. Q.W. on radio mast 0.7 mile NE.
33124 *K 0821.1*	---Rear, 700 meters 058° from front.	49° 21.0′ S 70° 14.2′ E	**Q.G.**	65 **20**	12	Black and white checkered beacon.	Visible on range line only.

Section 22

Radiobeacons

(1) No.	(2) Name	(3) Position	(4) Characteristic	(5) Range	(6) Sequence	(7) Frequency	(8) Remarks
			SOUTH AFRICA				
50	George	34° 00.2′ S 22° 29.2′ E	**GG** **(– – • – – •).**	100		260 A2A.	AERO.
			MOZAMBIQUE				
200	Macuti Light Station	19° 50.7′ S 34° 53.9′ E	**MC** **(– – – • – •).** period 360s tr(3) 9s si 1s (—) 26s si 6s repeats(2) 84s si 234s	150		302 A1A.	Transmits continuously during periods of low visibility. During periods of clear weather, transmits at 06, 12, 36, and 42 minutes past each hour.
			MAURITIUS				
225	Plaisance (West)	20° 16.8′ S 57° 23.0′ E	**FF** **(• • – • • • – •).**	100		258. NON A2A.	AERO.
			COMORO ISLANDS				
230	Dzaoudzi, Isle Pamanzi	12° 48.0′ S 45° 17.0′ E	**FJO** **(• • – • • – – – – – –).**	100		341 A1A.	AERO.
240	Anjouan	12° 08.0′ S 44° 26.0′ E	**AJ** **(• – • – – – –).**	50		369 A1A.	AERO.
250	Moroni	11° 41.0′ S 43° 15.0′ E	**FXM** **(• • – • – • • • – – –).**	200		387 A1A.	AERO.
			INDIAN OCEAN				
260	Iles Glorieuses	11° 33.0′ S 47° 17.0′ E	**FXZ** **(• • – • – • • • – – – • •).**	100		335 A1A.	AERO.
270	Ile Europa	22° 20.0′ S 40° 21.0′ E	**FXE** **(• • – • – • • • – •).**	100		352 A1A.	AERO.
340	St. Pierre, Reunion	21° 16.1′ S 55° 22.0′ E	**SP** **(• • • • – – – •).**	50		352 A1A.	AERO.
350	Saint Denis Gillot, Reunion	20° 53.1′ S 55° 30.6′ E	**FXR** **(• • – • – • • • – • – •).**	170		382 A2A.	AERO.
370	Diego Garcia	7° 17.4′ S 72° 23.1′ E	**NKW** **(– • – • • – • – – –).**	300		300 N0N, A2A.	AERO.
380	Mahe Island, Seychelles	4° 37.0′ S 55° 26.0′ E	**SEY** **(• • • • – • – – –).**	800		373 A2A.	AERO.
382	Coetivy Island, Seychelles	7° 08.5′ S 56° 16.2′ E	**COE** **(– • – • – – – •).**			335 A2A.	AERO.

(1) No.	(2) Name	(3) Position	(4) Characteristic	(5) Range	(6) Sequence	(7) Frequency	(8) Remarks
			ETHIOPIA - SUDAN				
410	Assab	13° 04.0′ N 42° 38.0′ E	**SB** **(• • • – • • •).**	150		345 A2A.	AERO. Transmits between 0300Z-1500Z.
430	Port Sudan	19° 36.5′ N 37° 14.0′ E	**PS** **(• – – • • • •).**	100		350 A2A.	
			EGYPT				
440	Nuweiba	29° 03.0′ N 34° 39.8′ E	**NWB** **(– • • – – – • • –).**	150		288 A2A	AERO.
441	Ras Nusrani	27° 57.9′ N 34° 22.8′ E	**SKH** **(• • • – • – • • • •).**			335 A2A.	AERO. Transmits between 0600-1500Z.
			OMAN				
450	Salalah	17° 02.0′ N 54° 05.0′ E	**SAN** **(• • • • – – •).**	143		310 NON, A2A.	AERO.
470	Muscat/Seeb	23° 35.4′ N 58° 15.1′ E	**NSB** **(– • • • • – • • •).**			318 NON, A2A.	AERO.
			UNITED ARAB EMIRATES				
490	Dubayy	25° 13.8′ N 55° 23.7′ E	**DO** **(– • • – – –).**			265 A1A	AERO.
500	Jabal Dhanna	24° 11.0′ N 52° 37.0′ E	**JD** **(• – – – – • •).**			302.5 NON, A2A.	AERO.
505	Jazirat Zirkuh	24° 51.8′ N 53° 04.8′ E	**ZKU** **(– – • • – • – • • –).**	130		275 NON, A2A.	AERO.
508	Abu Al Bukhush	25° 29.8′ N 53° 08.9′ E	**RP** **(• – • • – – •).**	28		248 A2A.	AERO.
510	Das Island	25° 08.0′ N 52° 52.0′ E	**ID** **(• • – • •).**	92		366 NON, A2A.	AERO.
512	Fujayrah	25° 06.0′ N 56° 21.0′ E	**FUJ** **(• • – • • • – • – – –).**			400 NON, A2A.	AERO.
			PERSIAN GULF				
520	Ad Dawhah, Qatar	25° 18.0′ N 51° 33.0′ E	**BD** **(– • • • – • •).**	150		377 NON, A2A.	AERO.
530	Bahrain	26° 17.0′ N 50° 38.0′ E	**BI** **(– • • • • •).**	200		352 NON, A2A.	AERO.
550	Bandar Al Mish'ab	28° 04.9′ N 48° 36.7′ E	**RAS** **(• – • • – • • •).**	200		318 NON, A2A.	AERO.
			IRAN				
570	Kharq Island	29° 15.0′ N 50° 19.0′ E	**KHG** **(– • – • • • • – – •).**	100		325 A2A.	AERO.
580	Sheykh Sho'eyb (Lavan Island)	26° 48.0′ N 53° 23.0′ E	**LD** **(• – • • – • •).**	192		310 A1A.	AERO. Transmits only during the day.

(1) No.	(2) Name	(3) Position	(4) Characteristic	(5) Range	(6) Sequence	(7) Frequency	(8) Remarks
			IRAN				
600	Sirri	25° 54.1′ N 54° 32.3′ E	**SIR** **(• • • • • • – •).**			300 NON, A2A.	AERO.
			MALDIVES				
617	Gan	0° 41.9′ S 73° 09.8′ E	**GN** **(– – • – •).**	240		317 A2A.	AERO.
			INDIA				
650	Diu Head Light Station	20° 41.5′ N 70° 49.7′ E	**DH** **(– • • • • • •).** period 360s tr(4) 20s (—) 25s tr(4) 20s (—) 25s tr(2) 10s si 260s	155		289 A2A.	
665	Ratnagiri	16° 59.1′ N 73° 16.4′ E	**RG** **(• – • – – •).**	170		308 A2A.	Repeats twice at 02, 08, 14, 20, 26, 32, 38, 44, 50 and 56 minutes past each hour.
670	Bombay	19° 07.0′ N 72° 50.0′ E	**BB** **(– • • • – • • •).**	500		265 A2A.	AERO.
691	Chetlat Island	11° 41.8′ N 72° 43.1′ E	**CT** **(– • – • –).**	170		289 A2A.	
700	Cochin	9° 56.0′ N 76° 17.0′ E	**CC** **(– • – • – • – •).**	240		325 NON, A2A.	AERO. Transmits between 0300-1500.
710	Trivandrum	8° 29.4′ N 76° 54.4′ E	**TV** **(– • • • –).**	315		299 NON, A2A.	AERO.
715	Nagappattinam	10° 45.8′ N 79° 51.0′ E	**NP** **(– • • – – •).** period 360s			295 A2A.	
730	Madras	13° 02.0′ N 80° 10.0′ E	**MV** **(– – • • • –).**	500		292 NON, A2A.	AERO.
740	Antarvedi Light Station	16° 19.2′ N 81° 43.7′ E	**NT** **(– • –).**	180		315 A2A.	
747	Gopalpur	19° 15.3′ N 84° 54.2′ E	**GP** **(– – • • – – •).**			292 A2A.	
752	Paradip Light Station	20° 15.3′ N 86° 39.4′ E	**PD** **(• – – • – • •).** period 360s	170		318 A2A.	
			SRI LANKA (CEYLON)				
770	Colombo/Ratmalana	6° 50.0′ N 79° 53.0′ E	**RM** **(• – • – –).**	164		350 A2A.	AERO.
			BANGLADESH				
780	Chittagong	22° 15.0′ N 91° 49.0′ E	**EG** **(• – – •).**	155		287 NON, A2A.	AERO.
790	Kutubdia Island Light Station	21° 51.9′ N 91° 50.5′ E	**KD** **(– • – – • •).**	100		294 A2A.	

(1) No.	(2) Name	(3) Position	(4) Characteristic	(5) Range	(6) Sequence	(7) Frequency	(8) Remarks
			BANGLADESH				
800	Cox's Bazar Light Station	21° 26.0′ N 91° 58.4′ E	**BZ** **(– • • • – – • •).**	100		297 A2A.	
			BURMA				
820	Victoria Point	10° 03.0′ N 98° 33.0′ E	**KT** **(– • – –).**	100		290 NON, A2A.	AERO.
			THAILAND				
850	Sattahip, Ban U Taphao	12° 39.7′ N 100° 59.6′ E	**UP** **(• • – • – – •).**	170		414 A2A.	AERO.
			ANDAMAN ISLANDS				
870	East Island Light Station	13° 38.0′ N 93° 03.0′ E	**AN** **(• – – •).**	180		317 A2A.	
			NICOBAR ISLANDS				
880	Keating Point Light Station	9° 15.0′ N 92° 46.3′ E	**NI** **(– • • •).** period 360s tr 60s si 240s	180		313 A2A.	
			MALAYSIA				
890	Kuantan	3° 23.0′ N 103° 25.0′ E	**PK** **(• – – • – • –).**	180		282 NON, A2A.	AERO.
900	Kuala Trengganu	5° 22.9′ N 103° 06.7′ E	**TU** **(– • • –).**	90		312 NON, A2A.	AERO.
			INDONESIA (BORNEO)				
905	Tanjung Mangkalihat	0° 59.5′ N 118° 59.3′ E	**MH** **(– – • • • •).**	100		312. A2A.	
906	Balikpapan	1° 12.9′ S 116° 58.5′ E	**BL** **(– • • • • – • •).**	100		304 A2A.	
907	Tanjung Selatan	4° 10.2′ S 114° 38.8′ E	**TS** **(– • • •).**	100		296 A2A.	
908	Pontianak	0° 21.7′ N 108° 57.2′ E	**PO** **(• – – • – – –).**	100	I	304 A2A.	Transmits 00, 10, 20, 30, 40, and 50 minutes past each hour.
			INDONESIA (SUMATERA)				
910	Sabang	5° 53.7′ N 95° 18.8′ E	**SA** **(• • • • –).**	100		285 A2A.	
911	Pulau Pesemut	2° 30.0′ S 108° 51.0′ E	**PM** **(• – – • – –).**	100	II	304 A2A.	Transmits 05, 15, 25, 35, 45, and 55 mintues past each hour.

(1) No.	(2) Name	(3) Position	(4) Characteristic	(5) Range	(6) Sequence	(7) Frequency	(8) Remarks
			INDONESIA (SUMATERA)				
912	Pulau Simedang	3° 19.0′ S 107° 12.5′ E	**SI** **(• • • • •).**	100	I	296 A2A.	Transmits 00, 15, 30 and 45 minutes past each hour.
			COCOS ISLANDS				
930	Christmas Island	10° 25.9′ S 105° 41.1′ E	**XMX** **(– • • – – – – • • –).**	110		341 NON, A2A.	AERO.
			INDONESIA (JAWA)				
944	Peniki	5° 41.7′ S 106° 42.7′ E	**PI** **(• – – • • •).**	100	II	296 A2A.	Transmits 05, 20, 35 and 50 minutes past each hour.
945	Jamuang	6° 55.6′ S 112° 43.7′ E	**JM** **(• – – – – –).**	100	II	285 A2A.	Transmits at 05, 15, 25, 35, 45 and 55 minutes past each hour.
946	Muria	6° 24.5′ S 110° 55.2′ E	**MU** **(– – • • –).**	100	I	285 A2A.	Transmits at 00, 10, 20, 30, 40 and 50 minutes past each hour.
950	Surabaja/Djuanda	7° 22.0′ S 112° 46.0′ E	**SB** **(• • • – • • •).**	100		325 A2A.	AERO.
952	Cilacap	7° 47.0′ S 109° 38.3′ E	**CI** **(– • – • • •).**	100		320 A2A.	
953	Benoa	8° 50.5′ S 115° 11.8′ E	**BO** **(– • • • – – –).**	100		320 A2A.	
			INDONESIA (SULAWESI)				
960	Dewakang Besar	5° 23.7′ S 118° 25.3′ E	**DI** **(– • • • •).**	100	II	318 A2A.	Transmits at 05, 15, 25, 35, 45 and 55 minutes past each hour.
961	Tanjung Rangasa	3° 33.8′ S 118° 56.0′ E	**TM** **(– – –).**	100	I	318 A2A.	Transmits at 00, 10, 20, 30, 40 and 50 minutes past each hour.
			INDONESIA (NEW GUINEA)				
980	Daru Island	9° 04.0′ S 143° 13.0′ E	**DAU** **(– • • • – • • –).**	80		290 NON, A2A.	AERO.
990	Madang	5° 13.0′ S 145° 47.0′ E	**MD** **(– – – • •).**	110		362 NON, A2A.	AERO.
1000	Wewak	3° 34.9′ S 143° 40.6′ E	**WK** **(• – – – • –).**	110		336 A2A.	AERO.
1010.4	Sorong	0° 50.2′ S 131° 12.6′ E	**SO** **(• • • – – –).**	100		318 A2A.	Transmits 00-05 and 10-15 minutes past each hour.
1010.5	Ambon	3° 47.2′ S 128° 05.5′ E	**AM** **(• – – –).**	100		310 A2A.	
1010.6	Merauke	8° 30.7′ S 140° 22.8′ E	**ME** **(– – •).**	100		296 A2A.	
			MALAYSIA (SABAH)				
1020	Bintulu	3° 11.0′ N 113° 02.0′ E	**BU** **(– • • • • • –).**	45		304 NON, A2A.	AERO.

(1) No.	(2) Name	(3) Position	(4) Characteristic	(5) Range	(6) Sequence	(7) Frequency	(8) Remarks
			MALAYSIA (SABAH)				
1030	Anduki/Seria	4° 38.0′ N 114° 22.0′ E	**AKI** **(• – – • – • •).**	192		250 NON, A2A.	AERO.
1040	Brunei	5° 01.0′ N 114° 58.0′ E	**BN** **(– • • • – •).**	60		298 NON, A2A.	AERO.
1055	Kata Kinabalu	5° 54.0′ N 116° 02.0′ E	**JSL** **(• – – – • • • • – • •).**	92		400 NON, A2A.	
			VIETNAM				
1070	Ba Lat	20° 18.0′ N 106° 34.0′ E	**AG** **(• – – – •).**	100		475	Transmits continuously during periods of low visibility. During periods of clear weather, transmits at 10, 16, 40, and 46 minutes past each hour.
1080	Hon Dau	20° 40.0′ N 106° 48.7′ E	**NP** **(– • • – – •).**	100		435	Transmits continuously during periods of low visibility. During periods of clear weather, transmits at 08, 14, 38, and 44 minutes past each hour.
1090	Long Chau/Grande Island Light Station	20° 37.3′ N 107° 09.2′ E	**TC** **(– – • – •).**	100		415	Transmits continuously during periods of low visibility. During periods of clear weather, transmits at 06, 12, 36, and 42 minutes past each hour.
			PHILIPPINES				
1100	Mactan	10° 19.3′ N 123° 58.8′ E	**MCT** **(– – – • – • –).**	155		331 A2A.	AERO.
1110	South Nido Oilfield	11° 03.0′ N 118° 49.3′ E	**PCS** **(• – – • – • – • • •).**	100		379	
			CHINA				
1140	Hok Tsui	22° 12.6′ N 114° 15.3′ E	**HKG** **(• • • • – • – – – •).**	500		338 NON, A2A, A3E.	AERO.
1160	Tathong Point	22° 14.5′ N 114° 17.1′ E	**TP** **(– • – – •).**	50		280 NON, A2A.	AERO.
			PESCADORES ISLANDS				
1170	P'eng-hu Tao	23° 31.5′ N 119° 36.0′ E	**BM** **(– • • • – –).**	315		290 N0N, A2A.	AERO.
			OKINAWA GUNTO				
1180	Okinawa Jima	26° 05.8′ N 127° 40.0′ E	**OK** **(– – – – • –).**	170		308 A2A.	AERO.
1190	Okinawa Jima, Machinato	26° 20.3′ N 127° 44.9′ E	**KX** **(– • – – • • –).**	100		295	AERO. Transmits between 0900-1700.
1200	Okierabu Shima	27° 26.0′ N 128° 43.0′ E	**ON** **(– – – – •).**	170		398 A2A.	AERO.

(1) No.	(2) Name	(3) Position	(4) Characteristic	(5) Range	(6) Sequence	(7) Frequency	(8) Remarks
			TAIWAN				
1210	Fu-Kwei Chiao	25° 18.0′ N 121° 32.0′ E	**B** **(– • • •).** period 360s tr(4) 9s si 2s (—) 25s si 2s tr(4) 9s si 73s repeats(2) 240s	100	I, III, V	302 NON, A2A.	Transmits continuously during periods of low visibility. During periods of clear weather, transmits at 00, 02, 04, 30, 32, and 34 minutes past each hour.
1212	Chi-Lung	25° 09.5′ N 121° 44.4′ E	**C** **(– • – •).** period 360s tr(4) 10.6s si 1s (—) 25s si 1s tr(4) 10.6s si 71.8s repeats(2) 240s	100	II, IV, VI	302 NON, A2A.	Transmits continuously during periods of low visibility. During periods of clear weather, transmits at 01, 03, 05, 31, 33, and 35 minutes past each hour.
1220	Ch'i-lai Pi Light Station	24° 01.0′ N 121° 38.0′ E	**D** **(– • •).**	100	I,III,V	287 A2A.	Transmits continuously during periods of low visibility. During periods of clear weather, transmits at 06, 08, 10, 36, 38, and 40 minutes past each hour.
1225	Huo-shao Tao Light Station	22° 40.4′ N 121° 27.9′ E	**G** **(– – •).**	100	II,IV,VI	287 A2A	Transmits continuously during periods of low visibility. During periods of clear weather, transmits at 07,09, 11,37,39 and 41 minutes past each hour.
1228	Lan Yu	22° 04.8′ N 121° 29.9′ E	**H** **(• • • •).**	100		320 A2A	Transmits continuously during periods of low visibility. During periods of clear weather, transmits at 01, 04, 07, 31, 34 and 37 minutes past each hour.
1230	Heng-ch'un	21° 56.1′ N 120° 50.1′ E	**KW** **(– • – • – –).**	240		415 NON, A2A.	AERO.
1240	Kao-hsiung-Shan Light Station	22° 37.0′ N 120° 15.4′ E	**A** **(• –).**	100		320 A2A.	Transmits continuously during periods of low visibility. During periods of clear weather, transmits at 00, 03, 06, 30, 33 and 36 minutes past each hour.
			CHINA				
1250	Naozhou Dao	20° 54.2′ N 110° 36.2′ E	**NZ** **(– • – – • •).**	200	I	315 A2A.	Transmits at 00, 06, 12, 18, 24, 30, 36, 42, 48 and 54 minutes past each hour.
1252	Baohu Jiao	20° 00.3′ N 110° 55.8′ E	**BH** **(– • • • • • • •).**	200	III	315 A2A.	Transmits at 02, 08, 14, 20, 26, 32, 38, 44, 50 and 56 minutes past each hour.
1256	Jianggang	32° 45.7′ N 120° 46.2′ E	**JG** **(• – – – – – •)**	200	I	311 A2A	Transmits at 00, 06, 12, 18, 24, 30, 36, 42, 48 and 54 minutes past each hour.
1258	Sheyanghe	33° 48.1′ N 120° 20.6′ E	**SY** **(• • • – • – –)**	200	III	291 A2A	Transmits at 04, 10, 16, 22, 28, 34, 40, 46, 52 and 58 minutes past each hour.
1260	Yanweigang	34° 28.8′ N 119° 47.0′ E	**YW** **(– • – – • – –).**	200	II	311 A2A.	Transmits at 02, 08, 14, 20, 26, 32, 38, 44, 50 and 56 minutes past each hour.
1262	Haozhigang	32° 01.2′ N 121° 43.2′ E	**HZ** **(• • • • – – • •).**	200	III	311 A2A.	Transmits at 04, 10, 16, 22, 28, 34, 40, 46, 52 and 58 minutes past each hour.
1270	Moye Dao	36° 53.9′ N 122° 30.9′ E	**MY** **(– – – • – –).**	200	I	291 A2A.	Transmits at 00, 06, 12, 18, 24, 30, 36, 42, 48 and 54 minutes past each hour.

(1) No.	(2) Name	(3) Position	(4) Characteristic	(5) Range	(6) Sequence	(7) Frequency	(8) Remarks
			CHINA				
1272	Qingdao	36° 04.3′ N 120° 26.3′ E	**MD** **(– – – • •).**	200	II	291 A2A.	Transmits at 02, 08, 14, 20, 26, 32, 38, 44, 50 and 56 minutes past each hour.
1280	Chengshan Jiao	37° 23.7′ N 122° 42.2′ E	**CS** **(– • – • • • •).**	200		319 A2A.	Transmits at 02, 08, 14, 20, 26, 32, 38, 44, 50 and 56 minutes past each hour.
1290	Beitang	39° 06.5′ N 117° 43.2′ E	**BT** **(– • • • –).**	200	I	295 A2A.	Transmits at 00, 06, 12, 18, 24, 30, 36, 42, 48 and 54 minutes past each hour.
1292	Qinhuangdao	39° 54.8′ N 119° 37.0′ E	**QH** **(– – • – • • • •).**	200	II	295 A2A.	Transmits at 02, 08, 14, 20, 26, 32, 38, 44, 50 and 56 minutes past each hour.
1302	Dasanshan Dao	38° 51.9′ N 121° 49.5′ E	**DS** **(– • • • • •).**	200	II	307 A2A.	Transmits at 02, 08, 14, 20, 26, 32, 38, 44, 50 and 56 minutes past each hour.
1304	Laotieshan	38° 43.8′ N 121° 08.0′ E	**LT** **(• – • • –).**	200	III	307 A2A.	Transmits at 04, 10, 16, 22, 28, 34, 40, 46, 52 and 58 minutes past each hour.
			KOREA				
1305	Ihwari	39° 46.7′ N 124° 33.5′ E	**LH** **(• – • • • • • •).**		I	282 A2A.	
1306	Onjongni	38° 54.1′ N 125° 13.9′ E	**KS** **(– • – • • • •).**		III	282 A2A.	
1307	Monggum Po	38° 07.6′ N 124° 44.0′ E	**ML** **(– – • – • • •).**		V	282 A2A.	
1340	Cheju	33° 30.9′ N 126° 32.4′ E	**CD** **(– • – • – • • •).**	100		375 A2A.	Aeromarine.
1360	Yeong Do Light Station	35° 03.0′ N 129° 05.7′ E	**CY** **(– • – • – • – – •).**	60		300 A2A.	Transmits continuously during periods of low visibility. During periods of clear weather, transmits 00-05, 10-15, 20-25, 30-35, 40-45 and 50-55 minutes past each hour, sunrise to sunset.
1370	Suyong Man/Busan	35° 10.4′ N 129° 07.8′ E	**PN** **(• – – • – • • •).**	100		385 A2A.	Aeromarine.
1385	Kangnung.	37° 45.1′ N 128° 56.8′ E	**LC** **(• – • • – • – • • •).**	100		257 A2A	AERO.
1395	Sukcho	38° 08.2′ N 128° 35.9′ E	**SK** **(• • • – • – • • •).**	100		378 A2A.	AERO.
			JAPAN				
1402	Toi Misaki	31° 22.4′ N 131° 20.1′ E	**TI** **(– • • • •).** period 30s tr(2), (–) (2)	90		309	Azimuth coverage 036°-216°.
1440	Hachijo Jima	33° 04.8′ N 139° 51.1′ E	**CJ** **(– • – • • – – – • • •).** period 30s tr(2), (–)(2) repeats(1)	90		302	Azimuth coverage 000°-205°.
1512	Shiriya Saki	41° 25.7′ N 141° 27.8′ E	**YA** **(– • – – • – • • •).** period 30s tr(2), (–)(2) repeats(1)	90		302 D7W.	Azimuth coverage 270°-170°.

(1) No.	(2) Name	(3) Position	(4) Characteristic	(5) Range	(6) Sequence	(7) Frequency	(8) Remarks
			JAPAN				
1534	Kushiro Saki	42° 58.1′ N 144° 22.5′ E	**UR** **(• • – • – •).** period 30s tr(2), (–)(2) repeats(1)	90		288 D7W.	Azimuth coverage 120°-300°. Transmits every 2 minutes between 00 minutes and 58 minutes past each hour.
1550	Abashiri	43° 59.9′ N 144° 17.4′ E	**AS** **(• – • • •).** period 30s tr(2), (—)(2)	90		309 D7W.	Azimuth coverage 320°-120°.
1554	Soya Misaki	45° 31.2′ N 141° 56.2′ E	**OY** **(– – – – • – –).** period 30s tr(2), (–)(2)	90		295 D7W.	Azimuth coverage 258°-102°.
1572	Matsumae (Fukuyama) Light Station	41° 25.3′ N 140° 05.2′ E	**FK** **(• • – • – • –).** period 30s tr(2), (–)(2) repeats(1)	90		309 D7W.	Azimuth coverage 110°-280°. Transmits every 2 minutes between 00 minutes and 58 minutes past each hour.
1590	Hekura Jima	37° 51.1′ N 136° 55.2′ E	**HA** **(• • • • • –).** period 30s tr(2), (–)(2)	100		295 H2A.	Transmits every 2 minutes.
1612	Wakamiya Shima	33° 52.1′ N 129° 41.2′ E	**NU** **(– • • • –).** period 30s tr(2), (–)(2) repeats(1)	90		295	
1616	Ose Saki	32° 37.0′ N 128° 36.3′ E	**OU** **(– – – • • –).** period 30s	90		302	
1635	Iwo Jima	24° 47.0′ N 141° 18.0′ E	**OX** **(– – – – • • –).**		250	360 A2A.	AERO.
1640	Miyako Sima	24° 47.1′ N 125° 17.7′ E	**MY** **(– – – • – –).**	180		340 A2A.	AERO.
			RUSSIA				
1650	Mys Gamova Light Station	42° 33.4′ N 131° 13.2′ E	**GM** **(– – • – –).** period 360s tr (interrupted by a long dash) 55s si 305s	150	I	306.5 A2A.	
1651	Mys Bryusa Light Station	42° 52.8′ N 131° 28.1′ E	**BU** **(– • • • • • –).**	15		300.5	
1651.5	Ostrov Skrypleva Light Station	43° 01.7′ N 131° 57.1′ E	**SW** **(• • • – • – –).** period 360s tr(5) 19s (—) 25s tr(2) 7s si 309s	50		291.5 A2A.	
1652	Ostrov Askol'd Light Station	42° 43.9′ N 132° 20.7′ E	**AD** **(• – – • •).** period 360s tr (interrupted by a long dash) 60s si 300s	150	II	306.5 A2A.	
1654	Mys Povorotnyy Light Station	42° 40.4′ N 133° 02.5′ E	**PO** **(• – – • – – –).** period 360s tr (interrupted by a long dash) 60s si 300s	150	III	306.5 A2A.	

(1) No.	(2) Name	(3) Position	(4) Characteristic	(5) Range	(6) Sequence	(7) Frequency	(8) Remarks
			RUSSIA				
1656	Mys Ostrovnoy Light Station	42° 48.5′ N 133° 43.3′ E	**OR** **(– – – • – •).** period 360s tr (interrupted by a long dash) 60s si 300s	150	IV	306.5 A2A.	
1658	Mys Nizmennyy Light Station	43° 31.2′ N 135° 09.3′ E	**NZ** **(– • – – • •).** period 360s tr (interrupted by a long dash) 60s si 300s	150	V	306.5 A2A.	
1660	Mys Yegorova Light Station	44° 46.4′ N 136° 27.0′ E	**EO** **(• – – –).**	150	VI	306.5 A2A.	
1670	Nakhodka-Zaliv Amerika Front Light Station	42° 49.9′ N 132° 55.8′ E	**NH** **(– • • • • •).** period 360s tr 51s si 309s	50		291.5 A2A.	
1680	Nepristupryy	42° 47.8′ N 133° 00.1′ E	**NU** **(– • • • –).** period 110s tr 10s (—) 100s	30		315.5, 375 A1A, A2A.	Deviation radiobeacon for calibration use within the harbor. Transmits upon request, in clear weather only.
1690	Mys Balyuzek Light Station	43° 55.0′ N 135° 31.0′ E	**BL** **(– • • • • – • •).**	100	V	297.5 A2A.	Transmits at 04, 10, 16, 22, 28, 34, 40, 46, 52 and 58 minutes past each hour.
1692	Rudnyy	44° 20.7′ N 135° 50.8′ E	**RD** **(• – • – • •).**	100	VI	297.5 A2A.	Transmits at 05, 11, 17, 23, 29, 35, 41, 47, 53 and 59 minutes past each hour.
1700	Mys Belkina (Byelkin) Light Station	45° 49.5′ N 137° 41.5′ E	**BN** **(– • • • – •).** period 360s tr (interrupted by a long dash) 60s si 300s	150	I	303.5 A2A.	
1702	Mys Zolotoy Light Station	47° 19.1′ N 138° 59.5′ E	**ZO** **(– – • • – – –).** period 360s tr (interrupted by a long dash) 60s si 300s	150	II	303.5 A2A.	
1704	Port Kholmsk Light Station	47° 01.5′ N 142° 01.5′ E	**HK** **(• • • • – • –).** period 360s tr (4) 20s (—) 25s tr (2) 10s si 305s	80	III	303.5 A2A.	
1706	Ostrov Moneron Light Station	46° 15.5′ N 141° 15.8′ E	**MR** **(– – • – •).** period 360s tr(4) 20s (—) 25s tr(2) 10s si 305s	150	IV	303.5 A2A.	
1708	Mys Kril'on Light Station	45° 54.0′ N 142° 04.8′ E	**KX** **(– • – – • • –).** period 360s tr (4) 20s (—) 25s tr (2) 10s si 305s	100	V	303.5 A2A.	
1710	Mys Aniva	46° 01.5′ N 143° 24.8′ E	**AW** **(• – • – –).** period 360s tr (5) 20s (—) 25s tr (2) 10s si 305s	25		306.5 A1A.	

(1) No.	(2) Name	(3) Position	(4) Characteristic	(5) Range	(6) Sequence	(7) Frequency	(8) Remarks
			RUSSIA				
1720	Ostrov Kamen Opasnosti	45° 47.7′ N 142° 13.4′ E	**K** **(– • –).** period 180s tr 6s (—) 19.5s si 4.5s repeats(1) 30s si 120s	15		315.5 A1A.	
1730	Mys Tomari Aniva (Korsakov)	46° 36.5′ N 142° 47.7′ E	**KW** **(– • – • – –).** period 360s tr(2) 12s (—) 18s repeats(1) 30s si 300s	80		312.5 A2A.	Transmits at night or continuously during periods of low visibility at 05, 11, 17, 23, 29, 35, 41, 47, 53 and 59 minutes past each hour.
1740	Mys Susnova Light Station	46° 31.5′ N 138° 19.0′ E	**KM** **(– • – – –).** period 360s tr(6) 22s (—) 25s tr(2) 8s si 305s	50		318.5 A1A.	
1750	Mys Yelizavety Light Station	54° 25.5′ N 142° 43.0′ E	**EZ** **(• – – • •).**	150	I	294.5 A2A.	Navigation season only.
1752	Pil'tun Light Station	52° 51.0′ N 143° 18.5′ E	**PN** **(• – – • – •).**	150	II	294.5 A2A.	
1754	Chayvo	52° 21.0′ N 143° 12.0′ E	**ChW** **(– – – • • – –).**	80	III	294.5 A2A.	
1756	Zaliv Mardvinova	46° 49.4′ N 143° 13.1′ E	**MN** **(– – – •).**	100	IV	294.5 A2A.	Navigation season only.
1757	Mys Terpeniya Light Station	48° 38.6′ N 144° 44.8′ E	**TR** **(– • – •).**	150	V	294.5 A2A.	Navigation season only.
1758	Poronaysk Light Station	49° 13.6′ N 143° 07.7′ E	**AS** **(• – • • •).**	100	VI	294.5 A2A.	
1760	Mys Krasnyy Partizan Light Station	48° 58.5′ N 140° 24.8′ E	**KP** **(• – • • – – •).** period 360s tr(4) 20s (—) 25s tr(2) 10s si 305s	80		312.5 A2A.	Does not transmit during periods of clear weather during daylight hours.
1780	Uglegorsk Light Station	49° 04.6′ N 142° 01.8′ E	**UG** **(• • – – – •).** period 180s tr(5) 19s (—) 25s repeats(2) 7s si 128s	80		297.5 A1A.	
1790	Mys Zhonkiyer Light Station	50° 53.9′ N 142° 07.0′ E	**VR** **(• • • – • – •).**	100	I	309.5 A2A.	Navigation season only.
1792	Mys Lamanon Light Station	48° 47.1′ N 141° 51.2′ E	**LM** **(• – • • – –).**	100	II	309.5 A2A.	
1796	Mys Datta Light Station	49° 18.8′ N 140° 26.8′ E	**LD** **(• – • • – • •).**	100	IV	309.5 A2A.	
1798	Mys Peschanyy Light Station	48° 26.7′ N 140° 10.5′ E	**PA** **(• – – • • –).**	100	V	309.5 A2A.	
1800	Mys Kloster-Kamp Light Station (Orlova)	51° 25.5′ N 140° 53.2′ E	**OW** **(– – – • – –).**	100	VI	309.5 A2A.	Navigation season only.
1810	Moskal'vo	53° 36.3′ N 142° 30.2′ E	**MO** **(– – – – –).** period 360s tr (interrupted by a long dash) 60s si 300s	80	I	318.5 A2A.	Navigation season only.

(1) No.	(2) Name	(3) Position	(4) Characteristic	(5) Range	(6) Sequence	(7) Frequency	(8) Remarks
			RUSSIA				
1812	Menshikova	53° 17.7′ N 141° 24.6′ E	**ME** **(– – •).** period 360s tr (4) 20s (—) 25s tr (2) 10s si 305s	100	II	318.5 A2A.	
1814	Mys Litke	53° 56.0′ N 140° 21.0′ E	**LT** **(• – • • –).** period 360s tr (interrupted by a long dash) 60s si 300s	150	III	318.5 A1A.	
1820	Nyyvo	51° 57.0′ N 143° 08.0′ E	**NW** **(– • • – –).**	50		306.5 NON, A2A.	
1840	Mys Alevina	58° 50.0′ N 151° 21.0′ E	**AL** **(• – • – • •).** period 360s tr (interrupted by a long dash) 60s si 300s	150	I	303.5 A2A.	
1842	Mys Chirikova	59° 29.0′ N 150° 32.0′ E	**ChI** **(– – – • • •).** period 360s tr (interrupted by a long dash) 60s si 300s	80	III	303.5 A2A.	Transmits at night or continuously during periods of low visibility.
1844	Ostrov Spafar'yeva	59° 09.8′ N 149° 05.7′ E	**SF** **(• • • • • – • •).** period 360s tr (interrupted by a long dash) 60s si 300s	150	IV	303.5 A2A.	
1846	Mys Elagin (Duga)	59° 09.0′ N 146° 03.0′ E	**DG** **(– • • – – • •).** period 360s tr (interrupted by a long dash) 60s si 300s	150	V	303.5 A2A.	
1848	Mys Marekan (Okhotsk)	59° 19.2′ N 143° 28.7′ E	**MK** **(– – – • –).** period 360s tr (interrupted by a long dash) 60s si 300s	175 80	VI	303.5 A2A.	
1860	Oklyabr'skiy	52° 33.8′ N 156° 18.5′ E	**BO** **(– • • • – – –).** period 360s tr (interrupted by a long dash) 60s si 300s	150	I	297.5 A2A.	
1862	Mys Lopatka LIght Station	50° 53.5′ N 156° 40.5′ E	**LK** **(• – • • – • –).** period 360s tr (interrupted by a long dash) 60s si 300s	80	II	297.5 A2A.	
1864	Mys Kurbatova Light Station, Kuril Islands	50° 51.9′ N 156° 28.7′ E	**RB** **(• – • – • • •).** period 360s tr (interrupted by a long dash) 60s si 300s	150	III	297.5 A2A.	
1866	Mys Vasil'yeva Light Station, Kuril Islands	50° 00.2′ N 155° 23.5′ E	**MW** **(– – • – –).** period 360s tr (interrupted by a long dash) 60s si 300s	150	IV	297.5 A2A.	

(1) No.	(2) Name	(3) Position	(4) Characteristic	(5) Range	(6) Sequence	(7) Frequency	(8) Remarks
			RUSSIA				
1868	Krutogorovaya	55° 05.0′ N 155° 37.0′ E	**KG** **(– • – – – •).** period 360s tr (interrupted by a long dash) 60s si 300s	150	V	297.5 A2A.	
1870	Ozernovskiy Light Station	51° 29.0′ N 156° 29.0′ E	**OA** **(– – – • –).** period 360s tr (interrupted by a long dash) 55s si 305s	150	VI	297.5 A2A.	
1875	Mys Veslovskiy Light Station	43° 39.4′ N 145° 32.7′ E	**WO** **(• – – – – –).** period 180s tr(5) 19s (—) 25s tr(2) 7s si 129s	25		306.5 A1A.	
1880	Ostrov Shpanberga (Shikotan To) Light Station	43° 50.0′ N 146° 55.0′ E	**PG** **(• – – • – – •).**	100	I	312.5 A2A.	
1882	Mys Lovtsova (Atoiya Misaki) Light Station	44° 27.0′ N 146° 34.5′ E	**OC** **(– – – – • – •).** period 360s tr 60s si 300s	150	II	312.5 A2A.	
1884	Mys Van-der-Lind (Nobonotsu Misaki) Light Station	45° 35.0′ N 149° 24.0′ E	**WL** **(• – – • – • •).** period 360s tr 60s si 300s	150	III	312.5 A2A.	
1886	Mys Kastrikum Light Station	46° 13.7′ N 150° 34.0′ E	**KU** **(– • – • • –).** period 360s tr 60s si 300s	150	IV	312.5 A2A.	
1888	Ostrov Toporkov Light Station	48° 04.4′ N 153° 17.5′ E	**TK** **(– – • –).** period 360s tr(5) 20s (—) 25s tr(2) 8s si 307s	50		324.5 A1A.	
1890	Ostrov Zelenyy (Shibotsu Jima) Light Station	43° 31.8′ N 146° 12.6′ E	**ZN** **(– – • • – •).**	50		309.5 A1A.	
1900	Yakujono Bana	43° 52.4′ N 146° 49.0′ E	**MU** **(– – • • –).**	50		303.5 A1A.	
1905	Kamo Shima	43° 43.9′ N 146° 43.1′ E	**DW** **(– • • • – –).**	50		303.5 A1A.	
1907	Taraku To	43° 37.0′ N 146° 21.6′ E	**PS** **(• – – • • • •).**	50		318.5 A1A.	
1910	Mys Yuzhno Kuril`skiy	44° 01.2′ N 145° 51.6′ E	**YuK** **(• • – – – • –).**	30		324.5 NON, A1A.	
1920	O Misaki Ostrov Iturup	45° 26.0′ N 147° 55.4′ E	**BS** **(– • • • • • •).**	50		312.5 A2A.	
1930	Mys Chibuynyy (Imai Saki) Light Station	50° 46.0′ N 156° 12.0′ E	**ChN** **(– – – • – •).**	150		306.5 A2A.	Transmits at 04, 10, 16, 22, 28, 34, 40, 46, 52 and 58 minutes past each hour.
1950	Kruglyy	52° 04.0′ N 158° 20.0′ E	**RL** **(• – • • – • •).** period 360s tr (interrupted by a long dash) 60s si 300s	150		291.5 A2A.	

(1) No.	(2) Name	(3) Position	(4) Characteristic	(5) Range	(6) Sequence	(7) Frequency	(8) Remarks
			RUSSIA				
1951	Russkiy Light Station	52° 26.1′ N 158° 30.5′ E	**UR** **(• • – • – •).** period 180s tr(5) 19s (—) 25s tr(2) 7s si 129s	30		303.5 A1A.	
1951.5	Vilyuchinskiy	52° 36.7′ N 158° 27.2′ E	**WUT** **(• – – • • – –).** period 180s tr(5) 19s (—) 25s tr(2) 7s si 129s	30		309.5 A1A.	
1952	Mys Ozernoy	57° 43.5′ N 163° 18.9′ E	**ZR** **(– – • • • – •).** period 360s tr (interrupted by a long dash) 60s si 300s	50		291.5 A1A.	
1954	Mys Shipunskiy	53° 06.0′ N 160° 01.5′ E	**ChP** **(– – – – • – – •).** period 360s tr (interrupted by a long dash) 60s si 300s	100	III	291.5 A2A.	
1958	Mys Afrika	56° 10.5′ N 163° 18.1′ E	**AF** **(• – • • – •).** period 360s tr (interrupted by a long dash) 60s si 300s	150 75	V	291.5 A2A.	
1960	Mys Mayachnyy Light Station	52° 53.4′ N 158° 42.4′ E	**MYa** **(– – • – • –).** period 360s tr (interrupted by a long dash) 60s si 300s	150	II	291.5 A2A.	
1980	Ust Kamchatsk	56° 13.0′ N 162° 31.0′ E	**RD** **(• – • – • •).**	50		315.5 A1A.	
1990	Karaginski	58° 33.0′ N 163° 33.0′ E	**KJ** **(– • – • – – –).** period 360s tr(4) 20s (—) 25s tr(2) 10s si 305s	150	I	294.5 A2A.	
1995	Smirnova	59° 54.3′ N 166° 23.9′ E	**SN** **(• • • – •).** period 360s tr(5) 20s (—) 25s tr(2) 10s si 305s	50		309.5 A1A.	
2000	Yuzhnaya Glubokaya	60° 11.0′ N 166° 53.0′ E	**YuG** **(• • – – – – •).**	50		315.5 A1A.	Navigation season only.
2010	Lavrova	60° 19.0′ N 167° 05.0′ E	**LR** **(• – • • • – •).**	50		300.5 A1A.	
2015	Bubnova	60° 01.7′ N 170° 26.2′ E	**BO** **(– • • • – – –).** period 360s tr 20s (—) 25s tr 10s si 305s	50		300.5 A1A.	
2080	Russkaya Koshka	64° 34.5′ N 178° 32.9′ E	**RK** **(• – • – • –).** period 360s tr 60s si 300s	150	V	315.5 A2A.	

(1) No.	(2) Name	(3) Position	(4) Characteristic	(5) Range	(6) Sequence	(7) Frequency	(8) Remarks
			RUSSIA				
2090	Navarin	62° 22.3′ N 179° 09.5′ E	**NR** **(– • • – •).** period 360s tr 55s si 305s	50		312.5 A1A	

Section 23

Differential GPS Stations

(1) No.	(2) Name	(3) Position	(4) Station ID	(5) Range	(6) Frequency	(7) Transfer Rate	(8) Remarks
			KOREA				
6	Chojin Dan Lt	38° 33.1′ N 128° 23.9′ E	T 670 R 740 R 741	100	292	200	Message Types: 3, 5, 7, 9, 16.
7	Chumunjin Dan	37° 53.9′ N 128° 50.0′ E	T 663 R 726 R 727	100	295	200	Message Types: 3, 5, 7, 9, 16.
8	Eocheong Do Lt	36° 07.3′ N 125° 58.0′ E	T 664 R 728 R 729	100	295	200	Message Types: 3, 5, 7, 9, 16.
9	Ullung Do Lt	37° 31.1′ N 130° 47.9′ E	T 667 R 734 R 735	100	319	200	Message Types: 3, 5, 7, 9, 16.
10	Changgigot Lt	36° 04.7′ N 129° 34.2′ E	T 666 R 732 R 733	100	310	200	Message Types: 3, 5, 7, 9, 16.
10.5	Mara Do Lt	33° 07.0′ N 126° 16.2′ E	T 665 R 730 R 731	100	290	200	Message Types: 3, 5, 7, 9, 16.
11.5	Geomun Do Lt	34° 00.5′ N 127° 19.3′ E	T 662 R 724 R 725	100	287	200	Message Types: 3, 5, 7, 9, 16.
12.5	P'almi Do Lt	37° 21.3′ N 126° 30.8′ E	T 661 R 722 R 723	100	313	200	Message Types: 3, 5, 7, 9, 16.
13	Soch'ong Do Lt	37° 45.5′ N 124° 43.8′ E	T 668 R 736 R 737	100	323	200	Message Types: 3, 5, 7, 9, 16.
14	Sohuksando Lt	34° 05.5′ N 125° 06.0′ E	T 669 R 738 R 739	100	298	200	Message Types: 3, 5, 7, 9, 16.
15	Yong Do Lt	35° 03.6′ N 129° 04.4′ E	T 660 R 720 R 721	100	300	200	Message Types: 3, 5, 7, 9, 16.
			CHINA				
20	Kau Yi Chau	22° 17.0′ N 114° 04.6′ E		270	289	200	Message Types: 1, 2, 3, 5, 6, 16.
			JAPAN				
315	Kushiro Saki	42° 58.1′ N 144° 22.5′ E	T 630	108	288		
320	Abashiri	43° 59.9′ N 144° 17.4′ E	T 631	108	309		
328	Soya Misaki	45° 31.2′ N 141° 56.2′ E	T 632	108	295		
344	Matsumae	41° 25.3′ N 140° 05.2′ E	T 634	108	309		
355	Tango	35° 44.3′ N 135° 05.2′ E	T 636	108	316		

(1) No.	(2) Name	(3) Position	(4) Station ID	(5) Range	(6) Frequency	(7) Transfer Rate	(8) Remarks
			JAPAN				
362	Hekura Jima	37° 51.1′ N 136° 55.2′ E	T 637	108	295		
368	Sakata	38° 56.8′ N 139° 49.4′ E	T 638	108	288		
374	Siriya Saki	41° 25.7′ N 141° 27.8′ E	T 639	108	302		
380	Kinkasan	38° 16.6′ N 141° 35.0′ E	T 640 R 680 R 681	108	316	200	Message Types: 1, 3, 5, 6, 7, 9, 16.
392	Urayasu	35° 37.0′ N 139° 53.8′ E	T 642	108	321		
402	Hachijo Jima	33° 04.8′ N 139° 51.1′ E	T 644 R 688 R 689	108	302	200	Message Types: 1, 3, 5, 6, 7, 9, 16.
411	Nagoya	35° 02.1′ N 136° 50.8′ E	T 645	108	320		
423	Muroto Saki	33° 15.1′ N 134° 10.6′ E	T 647 R 694 R 695	108	295	200	Message Types: 1, 3, 5, 6, 7, 9, 16.
455	Wakamiya	33° 52.1′ N 129° 41.2′ E	T 651 R 702 R 703	108	295	200	Message Types: 1, 3, 5, 6, 7, 9, 16.
474	Toi Misaki	31° 22.4′ N 131° 20.1′ E	T 653 R 706 R 707	108	309	200	Message Types: 1, 3, 5, 6, 7, 9, 16.
485	Nakano Shima	29° 49.3′ N 129° 54.9′ E	T 654	108	320.5		
490	Gesasi	26° 36.3′ N 128° 09.1′ E	T 655	108	288		
495	Miyako Shima	24° 43.8′ N 125° 26.2′ E	T 656	108	316		
			PERSIAN GULF				
1650	Ra's Al Khaymah	25° 59.0′ N 56° 04.0′ E	T 142 R 480 R 481	250	292	200	Message Types: 3, 6, 7, 9, 16.
1680	Abu Dhabi	24° 06.0′ N 52° 56.0′ E	T 143 R 486 R 487	250	314	200	Message Types: 3, 6, 7, 9, 16.
1700	Bahrain	26° 07.0′ N 50° 39.0′ E	T 140 R 480 R 481	250	298	200	Message Types: 3, 6, 7, 9, 16.
1720	Kuwait	29° 07.0′ N 48° 08.0′ E	T 141 R 482 R 483	250	295	200	Message Types: 3, 6, 7, 9, 16.
			RED SEA				
1830	Ras Gharib	28° 21.1′ N 33° 06.6′ E	T 323 R 446 R 447	150	298		
1840	Ras Umm Said	27° 50.9′ N 34° 18.8′ E	T 322 R 444 R 445	126	293.5		

(1) No.	(2) Name	(3) Position	(4) Station ID	(5) Range	(6) Frequency	(7) Transfer Rate	(8) Remarks
			RED SEA				
1850	El Quseir	26° 08.3′ N 34° 15.6′ E	T 325 R 450 R 451	260	314.5		
1870	Jeddah	21° 28.4′ N 39° 08.9′ E	T 961	250	320	200	Message Types: 3, 5, 6, 7, 9, 16.
1880	Gizan	16° 53.1′ N 42° 32.1′ E	T 962	250	324	200	Message Types: 3, 5, 6, 7, 9, 16.

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D6604	31680
D6606	31672
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D6653.1	31532
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D6694	31476
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D6697	31453
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D6698	31451
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D6754	31296
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Inter.	— U.S.	Inter.	— U.S.	Inter.	— U.S.	Inter.	— U.S.
D6757	31332	D6875	32785	D6994.1	32504	D7083.95	32970.2
D6757.1	31336	D6879	32778	D6995	32508	D7084	32972
D6758	31304	D6881.6	32892	D6995.1	32512	D7086	32976
D6759	31328	D6882.1	32732	D6998	32520	D7088	32980
D6759.55	31316	D6883	32736	D6998.1	32524	D7088.1	32984
D6759.56	31316.1	D6891	32777	D7000	32528	D7089	32988
D6761.4	31324	D6892	32777.2	D7000.1	32532	D7089.05	32978
D6763	31320	D6892.1	32777.21	D7004	32536	D7089.4	32992
D6769	31272	D6892.5	32777.4	D7004.1	32540	D7089.41	32996
D6770	31268	D6892.6	32777.1	D7006	32544	D7090	33000
D6772	31208	D6893.6	32777.62	D7014	32548	D7091	33004
D6772.1	31212	D6894	32777.5	D7018	32552	D7091.2	33008
D6774	31216	D6894.05	32777.51	D7019	32556	D7091.4	33012
D6774.1	31220	D6894.6	32766	D7019.1	32560	D7091.41	33016
D6775	31224	D6894.61	32766.1	D7020	32564	D7092	33020
D6784	31228	D6896	32760	D7020.1	32568	D7096	32852
D6784.1	31232	D6897	32764	D7021	32572	D7097	32872
D6794	31240	D6898	32776	D7022	32576	D7101	32861
D6794.1	31244	D6900	32768	D7024	32580	D7101.1	32861.5
D6796	31236	D6900.1	32772	D7024.1	32584	D7102	32848
D6812	31256	D6902	32752	D7025	32588	D7104	32880
D6812.1	31260	D6904.1	32748	D7025.1	32592	D7114	33028
D6812.5	31264	D6914	32328	D7026.5	32598	D7114.1	33032
D6813	31252	D6918	32356	D7027	32600	D7119.5	33072
D6814	31267	D6919	32360	D7028	32604	D7119.51	33076
D6814.1	31267.1	D6920	32332	D7028.1	32608	D7206	31152
D6818	31204	D6922	32336	D7029	32612	D7210	31144
D6820	31200	D6924	32340	D7030	32616	D7210.1	31148
D6824	31192	D6925	32344	D7032	32620	D7212	31136
D6825	31196	D6926	32348	D7033	32624	D7212.1	31140
D6828	31188	D6926.1	32352	D7033.7	32628	D7218	31096
D6832	31176	D6930	32364	D7034	32640	D7220	31100
D6832.1	31180	D6936	32368	D7035	32660	D7220.1	31104
D6842	31160	D6936.1	32372	D7035.1	32664	D7221	31108
D6842.9	31161	D6938	32376	D7036	32652	D7221.1	31112
D6843	31161.5	D6939	32380	D7037	32644	D7222	31132
D6843.1	31162	D6942	32384	D7041	32648	D7223	31128
D6844	31163	D6943	32388	D7043	32656	D7224	31116
D6844.1	31163.1	D6943.1	32392	D7048	32672	D7224.1	31120
D6845	31164	D6944	32400	D7050	32676	D7226	31124
D6845.1	31164.1	D6944.1	32404	D7052	32680	D7230	31092
D6846	31165	D6945	32396	D7056	32684	D7236	31088
D6846.2	31165.2	D6946	32408	D7058	32688	D7238	31084
D6846.4	31165.4	D6947	32420	D7062	32692	D7239	31080
D6846.6	31165.6	D6948	32424	D7065	32708	D7242	31076
D6847	31166	D6948.1	32428	D7065.1	32712	D7246	31072
D6847.1	31166.1	D6948.3	32412	D7068	32716	D7256	31068
D6848	31172	D6948.5	32416	D7069	32720	D7258	31064
D6852	31156	D6949.5	32432	D7069.1	32724	D7260	31056
D6860	32844	D6950	32436	D7070	32728	D7260.1	31060
D6861	32832	D6952	32444	D7073	32884	D7263	31044
D6862	32824	D6956	32440	D7077	32896	D7264	31040
D6862.4	32828	D6958	32452	D7078	32908	D7266	31048
D6863	32840	D6960	32456	D7080	32900	D7266.1	31052
D6864	32820	D6972	32460	D7080.1	32904	D7272	30952
D6865	32800	D6973	32464	D7081.9	32912	D7273	30964
D6866	32792	D6973.1	32468	D7082.3	32920	D7274	30956
D6867	32804	D6976	32476	D7083	32928	D7274.1	30960
D6867.1	32808	D6978	32480	D7083.1	32932	D7275	30968
D6867.32	32810.5	D6980	32487	D7083.4	32936	D7275.5	30970
D6867.5	32811.1	D6980.1	32487.1	D7083.41	32940	D7276	30972
D6868	32796	D6982	32492	D7083.61	32948	D7280	30988
D6870	32812	D6988	32496	D7083.7	32956	D7280.1	30992
D6871	32816	D6992	32516	D7083.75	32952	D7283	31036
D6873	32780	D6994	32500	D7083.93	32970	D7283.5	30986

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D7284	31008	D7296.06	30605.5	D7297	30260	D7298.21	30458
D7285	31004	D7296.1	30492	D7297.01	30256	D7298.22	30460
D7286	30996	D7296.2	30476	D7297.05	30254	D7298.23	30460.1
D7286.1	31000	D7296.25	30484	D7297.06	30252.41	D7298.24	30462
D7288	31032	D7296.3	30475.2	D7297.07	30252.405	D7298.245	30462.1
D7289	31012	D7296.31	30475	D7297.08	30253	D7298.25	30462.2
D7293.032	30685	D7296.32	30475.1	D7297.081	30253.1	D7298.255	30462.3
D7294	30980	D7296.33	30471.2	D7297.09	30244	D7298.262	30463
D7294.1	30984	D7296.34	30471	D7297.1	30238	D7298.265	30463.1
D7295	30856	D7296.35	30474	D7297.11	30240	D7298.3	30469
D7295.005	30868	D7296.36	30474.5	D7297.12	30242.4	D7298.31	30469.5
D7295.01	30864	D7296.37	30472	D7297.13	30242.2	D7298.32	30469.6
D7295.012	30872	D7296.38	30471.5	D7297.14	30242	D7298.321	30469.7
D7295.013	30860	D7296.39	30471.4	D7297.15	30242.5	D7298.33	30470
D7295.014	30840	D7296.4	30470.5	D7297.16	30229	D7298.4	30480
D7295.015	30832	D7296.5	30409.5	D7297.17	30232	D7298.41	30478
D7295.016	30736	D7296.51	30410.6	D7297.18	30217	D7298.42	30479
D7295.017	30732	D7296.52	30411	D7297.19	30220	D7298.43	30493
D7295.018	30728	D7296.521	30411.5	D7297.2	30224	D7298.44	30494
D7295.019	30724	D7296.53	30410.55	D7297.21	30228	D7298.45	30496
D7295.02	30720	D7296.54	30410.5	D7297.22	30216	D7298.46	30497
D7295.021	30708	D7296.55	30410.4	D7297.23	30212	D7298.47	30498
D7295.022	30704	D7296.56	30410.2	D7297.24	30196	D7298.48	30499
D7295.023	30700	D7296.57	30410	D7297.25	30200	D7298.49	30504
D7295.024	30696	D7296.58	30409	D7297.26	30204	D7298.5	30500
D7295.025	30692	D7296.59	30406.4	D7297.27	30208	D7298.51	30508
D7295.03	30688	D7296.595	30406.2	D7297.28	30230	D7298.52	30508.5
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D7295.05	30683.5	D7296.62	30406	D7297.31	30252	D7298.55	30511
D7295.06	30683.4	D7296.63	30405.5	D7297.4	30261.3	D7298.56	30511.05
D7295.07	30683.7	D7296.64	30405	D7297.41	30261	D7298.57	30525
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D7295.1	30683.6	D7296.71	30404.5	D7297.51	30368	D7298.63	30511.23
D7295.11	30683.2	D7296.72	30400	D7297.52	30372	D7298.64	30511.24
D7295.12	30682.1	D7296.723	30413	D7297.521	30376	D7298.65	30511.1
D7295.14	30682.05	D7296.724	30414	D7297.6	30415	D7298.651	30511.2
D7295.15	30682.07	D7296.725	30412	D7297.61	30415.5	D7298.66	30511.25
D7295.16	30683	D7296.73	30398	D7297.62	30416	D7298.67	30511.3
D7295.17	30676	D7296.74	30396	D7297.65	30422	D7298.671	30511.4
D7295.18	30680	D7296.75	30388	D7297.67	30420	D7298.68	30511.5
D7295.19	30672	D7296.77	30384	D7297.7	30424	D7298.7	30511.51
D7295.195	30668	D7296.78	30348	D7297.71	30424.4	D7298.71	30511.53
D7295.5	30636	D7296.8	30340	D7297.72	30424.2	D7298.72	30511.52
D7295.6	30632	D7296.85	30332	D7297.73	30424.6	D7298.73	30511.54
D7295.61	30628	D7296.86	30324	D7297.74	30425	D7298.74	30511.55
D7295.62	30640	D7296.861	30328	D7297.76	30426	D7298.75	30511.61
D7295.63	30664	D7296.87	30316	D7297.77	30428	D7298.77	30511.81
D7295.65	30648	D7296.871	30320	D7297.79	30432	D7298.78	30511.83
D7295.655	30652	D7296.88	30308	D7297.9	30436	D7298.79	30511.84
D7295.66	30656	D7296.881	30312	D7297.91	30439	D7298.8	30511.85
D7295.665	30660	D7296.89	30300	D7297.96	30437	D7298.81	30511.86
D7295.67	30662	D7296.891	30304	D7297.961	30438	D7298.82	30511.82
D7295.68	30662.5	D7296.9	30292	D7297.97	30441	D7298.83	30511.71
D7295.74	30644	D7296.91	30296	D7297.99	30440	D7298.84	30511.72
D7295.78	30616	D7296.95	30280	D7297.995	30444	D7298.85	30511.92
D7295.79	30620	D7296.96	30284	D7298	30449	D7298.86	30511.91
D7295.8	30612	D7296.961	30288	D7298.01	30450	D7298.87	30511.93
D7295.9	30608	D7296.97	30276	D7298.02	30451	D7298.88	30511.94
D7296	30606	D7296.98	30264	D7298.03	30451.2	D7298.89	30535
D7296.01	30605.2	D7296.991	30260.2	D7298.04	30451.1	D7298.91	30535.1
D7296.02	30605.1	D7296.992	30260.1	D7298.1	30455	D7298.92	30534
D7296.03	30605	D7296.995	30260.3	D7298.15	30454	D7298.93	30521

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D7298.94	30522
D7298.95	30528
D7298.96	30524
D7298.97	30516
D7298.98	30513
D7298.99	30514
D7298.995	30512
D7299	30536
D7299.01	30540
D7299.02	30544
D7299.12	30545
D7299.24	30547
D7299.42	30604
D7299.44	30552
D7299.5	30555
D7299.501	30556
D7299.502	30560
D7299.503	30576
D7299.504	30572
D7299.505	30580
D7299.506	30584
D7299.507	30588
D7299.508	30592
D7299.509	30554
D7299.51	30594
D7299.511	30595
D7299.516	30593
D7299.52	30597
D7299.521	30596
D7299.522	30599
D7299.523	30598
D7299.524	30603.5
D7299.525	30603.6
D7299.526	30603
D7299.527	30602
D7299.533	30600
D7299.534	30601
D7299.55	30548
D7299.56	30744
D7299.565	30743
D7299.57	30748
D7299.58	30752
D7299.59	30790
D7299.6	30788
D7299.7	30776
D7299.71	30780
D7299.72	30768
D7299.73	30772
D7299.74	30756
D7299.741	30760
D7300	30784
D7300.5	30796
D7300.51	30828
D7300.52	30816
D7300.53	30820
D7300.54	30808
D7300.55	30812
D7300.56	30824
D7300.57	30804
D7300.58	30800
D7300.59	30828.5
D7300.61	30829
D7300.7	30876
D7300.8	30892
D7300.83	30842
D7300.85	30852
D7300.86	30844
D7300.861	30848
D7300.9	30896
D7300.95	30900
D7301	30948
D7302	30950
D7302.1	30951
D7302.3	30949
D7303	30949.1
D7303.2	30949.2
D7304	30936
D7308	30940
D7309	30944
D7310	30945
D7311	30928
D7311.2	30932
D7311.23	30923
D7312	30920
D7312.2	30921
D7313	30904
D7313.2	30908
D7314	30909
D7314.08	30910
D7314.2	30911
D7314.3	30913.6
D7314.45	30911.5
D7314.5	30910.5
D7314.55	30913.9
D7314.6	30913.7
D7314.7	30913.8
D7315	30914
D7315.4	28616.5
D7315.8	28617
D7315.81	28617.1
D7315.85	28617.3
D7315.9	28617.5
D7315.92	28617.7
D7315.96	28617.9
D7316	30903
D7316.2	30903.2
D7317	30903.4
D7317.2	30903.6
D7317.7	30903.8
D7318	30902
D7318.1	28618
D7318.13	28614
D7318.14	28615
D7318.171	28616
D7318.2	28612
D7318.22	28612.2
D7318.24	28612.4
D7318.32	28611
D7318.4	28610
D7318.5	28610.2
D7319	28609
D7319.2	28609.2
D7320	28608
D7320.2	28608.2
D7321.6	28605
D7321.62	28605.1
D7321.7	28605.2
D7321.72	28605.3
D7321.74	28605.5
D7321.76	28605.7
D7322	28600
D7322.25	28604.4
D7322.5	28598
D7322.55	28597.82
D7322.71	28597.8
D7322.76	28597.81
D7322.8	28597
D7322.85	28597.5
D7323	28596
D7324	28592
D7324.4	28590
D7324.5	28590.2
D7324.835	28591
D7325.2	28590.4
D7325.26	28589.9
D7325.74	28589.8
D7325.8	28589.5
D7325.9	28589
D7325.95	28588.85
D7326	28588.6
D7326.25	28588.1
D7326.28	28588.8
D7326.282	28588.81
D7326.283	28588.82
D7326.33	28588.4
D7326.34	28588.2
D7326.5	28587
D7326.6	28587.5
D7327	28586
D7328	28584
D7328.1	28584.1
D7329.1	28570
D7329.3	28580
D7329.4	28576
D7329.5	28574
D7329.6	28567
D7329.65	28567.2
D7329.7	28567.4
D7329.8	28565.5
D7330	28566
D7331	28564
D7332	28560
D7332.3	28558
D7332.36	28559
D7332.367	28559.1
D7332.45	28566.2
D7332.46	28566.3
D7333	28556
D7334	28556.2
D7334.4	28556.4
D7334.5	28556.6
D7334.8	28690
D7334.85	28690.1
D7335	28552
D7335.5	28685
D7336	30160
D7336.2	30161
D7337.5	28669
D7338	28676
D7338.2	28680
D7339	28684
D7340	28688
D7340.2	28686
D7340.4	28687
D7340.5	28687.2
D7341	28692
D7342	28700
D7344	28696
D7345	30152
D7345.05	30157
D7345.2	30156
D7345.5	30153
D7346	28704
D7346.2	28708
D7348	28715
D7349	28716
D7350	28720
D7351	30140
D7351.4	30141
D7351.5	30141.2
D7351.8	30141.6
D7351.85	30141.8
D7353	30088
D7353.2	30092
D7353.5	30094
D7353.6	30094.5
D7354	30132
D7354.2	30132.5
D7354.4	30133
D7354.5	30133.5
D7354.7	30134
D7354.8	30134.5
D7354.9	30137
D7354.92	30138
D7355.2	30120
D7355.3	30121
D7355.32	30121.5
D7355.4	30124
D7355.6	30100
D7355.7	30108
D7355.77	30115
D7355.8	30110
D7356.512	30117
D7356.6	30082.5
D7356.7	30082
D7356.8	30081.5
D7357	30084
D7357.2	30081
D7357.3	30080
D7357.4	30076
D7357.75	30074
D7358	30072
D7358.21	30071.7
D7360	30064
D7360.2	30068
D7360.22	30070
D7360.4	30052
D7360.5	30056
D7360.6	30071
D7360.65	30071.1
D7360.8	30060
D7361	30062
D7363	30020
D7363.08	30021
D7363.2	30024
D7363.3	30028
D7363.5	30032
D7363.6	30036
D7363.7	30037
D7363.74	30045

CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

Inter.	— U.S.	Inter.	— U.S.	Inter.	— U.S.	Inter.	— U.S.
D7363.745	30046	D7393.894	29796.45	D7427	29534	D7462	29352
D7363.75	30038	D7393.895	29796.46	D7428	29536	D7500	29336
D7364	30040	D7393.898	29796.47	D7428.1	29540	D7505	29340
D7364.2	30044	D7393.9	29796.5	D7428.4	29572	D7505.1	29344
D7365.2	30013	D7393.9001	29796.51	D7428.45	29573	D7505.4	29344.5
D7365.3	30013.5	D7393.9005	29796.48	D7428.6	29535	D7568	29324
D7366	29872	D7393.91	29796.8	D7428.8	29544	D7568.2	29328
D7366.2	29880	D7393.911	29796.81	D7428.81	29548	D7568.4	29330
D7366.3	29876	D7393.92	29796.7	D7429	29576	D7569	29316
D7366.4	29881	D7393.93	29796.71	D7429.2	29568	D7569.2	29320
D7366.6	29868	D7393.95	29796.6	D7429.3	29564	D7571	29236
D7367	29836	D7393.97	29796.65	D7429.5	29560	D7572	29240
D7368	29952	D7393.975	29796.35	D7429.6	29556	D7573	29176
D7368.2	29953	D7394.5	29794	D7429.8	29552	D7573.2	29180
D7368.4	29953.1	D7395	29792	D7431	29580	D7575	29312
D7369	29956	D7398	29636	D7432	29584	D7575.4	29310
D7370	29964	D7398.4	29640	D7432.1	29588	D7575.5	29313
D7370.4	29968	D7399	29704	D7432.4	29592	D7575.6	29304
D7371.35	29991	D7399.3	29738.5	D7432.8	29596	D7575.65	29312.6
D7371.4	29994	D7399.5	29642	D7433	29600	D7575.655	29303.2
D7371.7	30004	D7400	29738	D7433.2	29604	D7575.66	29303.3
D7372	30006	D7400.9	29707	D7433.4	29608	D7575.665	29303.4
D7372.2	30006.4	D7400.95	29709	D7433.5	29612	D7575.67	29303.5
D7372.4	30006.8	D7401	29724	D7434.25	29616.4	D7575.675	29303.6
D7375.6	29843	D7401.1	29728	D7434.3	29616.6	D7575.68	29303.7
D7375.7	29848.2	D7402	29712	D7434.4	29616	D7575.7	29312.1
D7375.8	29848.4	D7402.4	29716	D7434.6	29533	D7575.75	29312.2
D7376.2	29849.2	D7402.5	29720	D7434.61	29533.1	D7575.8	29312.3
D7376.3	29849.4	D7404	29740	D7434.7	29410	D7575.85	29312.4
D7376.6	29850	D7404.1	29744	D7435	29402	D7575.9	29312.5
D7378	29816	D7404.3	29746	D7436	29404	D7576	29308
D7378.2	29820	D7404.5	29748	D7436.1	29408	D7577.2	29301.5
D7382	29912	D7404.51	29752	D7437	29418	D7577.3	29301.1
D7383	29800	D7404.8	29754	D7437.5	29419	D7577.4	29301
D7384	29804	D7405	29756	D7438	29420	D7578	29300
D7384.05	29806	D7405.1	29760	D7438.4	29424	D7578.2	29296
D7384.1	29806.1	D7406	29764	D7438.6	29428	D7578.4	29296.1
D7384.3	29805	D7407	29768	D7438.8	29432	D7579	29292
D7384.4	29805.1	D7407.6	29769	D7439	29440	D7580	29246
D7384.5	29805.2	D7407.7	29769.5	D7439.4	29444	D7580.1	29246.5
D7384.65	29814	D7409	29732	D7439.5	29448	D7580.3	29248.1
D7384.9	29918	D7409.2	29736	D7439.6	29452	D7580.4	29248
D7385	29932	D7409.5	29737	D7439.8	29460	D7582	29252.1
D7385.2	29934	D7410	29776	D7441	29476	D7582.2	29252.2
D7385.4	29944	D7413	29644	D7441.1	29480	D7582.4	29252
D7385.6	29945	D7414.7	29648	D7441.4	29468	D7582.5	29252.3
D7387.7	29930	D7415	29649	D7441.5	29472	D7582.6	29249.1
D7387.8	29930.2	D7415.2	29650	D7441.6	29464	D7582.7	29249
D7389.2	29893	D7415.21	29650.5	D7442.5	29484	D7582.8	29249.2
D7389.4	29893.5	D7417	29656	D7442.51	29488	D7585	29271
D7390.8	29899	D7417.2	29660	D7443.1	29416	D7585.1	29271.1
D7390.9	29900	D7417.3	29664	D7445	29400	D7585.15	29271.2
D7390.95	29904	D7417.4	29668	D7446	29396	D7585.6	29264
D7391.6	29905	D7417.5	29672	D7447	29376	D7586	29265
D7393	29812	D7417.6	29676	D7449	29388	D7586.2	29266
D7393.881	29796	D7417.7	29680	D7450	29384	D7586.7	29268
D7393.882	29796.1	D7417.8	29684	D7450.4	29392	D7587	29269
D7393.883	29796.15	D7417.9	29688	D7452	29369	D7587.2	29269.1
D7393.884	29796.2	D7418	29692	D7452.1	29370	D7587.62	29270
D7393.885	29796.05	D7418.2	29696	D7454	29368	D7587.63	29270.1
D7393.886	29796.25	D7418.3	29700	D7455	29364	D7587.8	29273
D7393.887	29796.3	D7419.2	29703.5	D7456	29372	D7588	29184
D7393.891	29796.17	D7420	29511	D7457	29348	D7589	29278
D7393.892	29796.03	D7424	29532	D7457.3	29347	D7589.4	29280
D7393.893	29796.4	D7425	29504	D7457.6	29346	D7589.52	29184.3

CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

Inter.	— U.S.	Inter.	— U.S.	Inter.	— U.S.	Inter.	— U.S.
D7589.6	29284	D7627.1	29080	D7697	28776	D8824	30356
D7589.7	29276.6	D7629	29092	D7697.2	28784	D8827	30360
D7589.8	29276.8	D7629.1	29096	D7697.4	28788	D8829	30352
D7590	29185	D7630	29084	D7698	28764	D8833	30344
D7590.2	29185.1	D7630.1	29088	D7699	28756	D8844	30346
D7590.4	29185.3	D7632.9	29100	D7699.2	28760	D8847	30386
D7590.5	29185.4	D7633	29104	D7700	28732	D8848	30387
D7591	29186	D7633.1	29108	D7703	28724	D8852	30387.2
D7591.2	29186.1	D7635	29112	D7704	28740	D8860	30387.5
D7592	29220	D7635.2	29116	D7706	28744	D9192	30158
D7593	29220.2	D7635.6	29120	D7707	28647	D9206.9	29822
D7593.2	29220.4	D7635.8	29124	D7707.1	28647.1	F0354	28420.5
D7593.4	29221	D7637	29128	D7707.5	28647.5	F0355	28420
D7593.6	29221.4	D7639	29140	D7708	28648	F0356	28416
D7593.7	29221.6	D7640	29132	D7708.2	28652	F0357	28411
D7593.8	29222	D7640.1	29136	D7708.4	28656	F0358	28408
D7593.9	29222.2	D7661	28954.1	D7708.5	28660	F0360	28404
D7594	29216	D7661.1	28954	D7709	28624	F0361.8	28398
D7594.4	29212	D7662.8	28950	D7709.2	28628	F0361.81	28398.5
D7595	29188	D7663	28948	D7709.4	28632	F0362	28396
D7595.5	29192	D7664.4	28916	D7709.41	28636	F0365	28378
D7596	29196	D7665.2	28924	D7709.6	28644	F0366	28380
D7596.1	29200	D7665.3	28928	D7709.7	28640	F0367.2	28358.8
D7598.7	29202	D7666	28940	D7710	28620	F0367.3	28358.81
D7599	29209	D7666.2	28944	D7711	28548	F0367.6	28359
D7601	29210	D7668.4	28930	D7712	28544	F0367.61	28359.5
D7602.9	29211	D7670.5	28902	D7713	28540	F0367.62	28359.3
D7603	29224	D7671	28904	D7714	28540.5	F0367.8	28366
D7603.3	29226	D7671.1	28908	D7720.2	28533	F0368	28368
D7603.5	29285	D7674	28900	D7723	28534	F0370	28376
D7603.6	29285.2	D7676	28892	D7725	28526	F0378	28356
D7603.8	29276	D7678	28883.5	D7730	28524	F0380	28352
D7604	29228	D7678.2	28883.6	D7731	28520	F0382.5	28347
D7604.4	29143	D7679	28883.1	D7734	28516	F0382.51	28347.5
D7604.5	29143.1	D7679.2	28883.2	D7734.1	28517	F0383	28340
D7604.6	29143.2	D7679.3	28883	D7734.2	28517.5	F0383.5	28344
D7604.7	29143.3	D7679.5	28882	D7734.3	28518	F0384	28336
D7604.8	29143.4	D7680	28880	D7734.35	28518.1	F0386	28332
D7605	29144	D7680.3	28881	D7736	28512	F0386.5	28328
D7605.3	29146.2	D7680.5	28879	D7740	28508	F0388	28312
D7605.4	29146.1	D7681	28878	D7742	28504	F0389	28316
D7607.8	29288	D7681.5	28813	D7745	28500	F0390	28308
D7612	28976	D7683	28876	D7750	28472	F0393	28320
D7613	28972	D7685	28816	D7751.1	28480	F0396	28300
D7614	29032	D7685.4	28820	D7754	28497	F0397	28304
D7614.1	29036	D7685.6	28856	D7756	28492	F0398	28296
D7615	29012	D7685.61	28860	D7760	28424	F0400	28288
D7616	28996	D7685.8	28824	D7760.09	28427	F0401	28290
D7616.1	29000	D7686	28832	D7761	28428	F0404	28284
D7617	29048	D7686.1	28836	D7761.5	28436	F0406	28280
D7617.1	29052	D7686.3	28840	D7763.1	28441	F0406.1	28282
D7618	29016	D7686.31	28844	D7763.11	28441.1	F0407	28270
D7619	29020	D7686.5	28848	D7763.5	28442	F0410	28272
D7620	29044	D7686.51	28852	D7763.51	28442.1	F0412	28276
D7621	28992	D7688	28864	D7763.9	28445	F0414	28268
D7622	29024	D7689	28812	D7763.91	28446	F0414.2	28266
D7622.1	29028	D7690	28804	D7800	28422	F0420	28264
D7623	29004	D7690.1	28803	D7850	28421	F0422	28256
D7623.1	29008	D7690.2	28803.1	D8804	30258	F0424	28260
D7624	29056	D7691	28808	D8806	30263	F0426	28244
D7624.1	29060	D7692	28792	D8807	30262	F0430	28236
D7625	29064	D7692.15	28800.5	D8812	30261.5	F0430.6	28232
D7626	29068	D7692.3	28801	D8815	30268	F0432	28208
D7626.1	29072	D7695	28768	D8817	30336	F0432.2	28212
D7627	29076	D7696	28772	D8822	30361	F0432.4	28216

CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

Inter.	— U.S.	Inter.	— U.S.	Inter.	— U.S.	Inter.	— U.S.
F0436	28204	F0562	27908	F0686	27640	F0765.11	27411.1
F0438	28200	F0563	27912	F0689	27636	F0765.12	27412.1
F0442	28196	F0564	27904	F0692	27632	F0765.13	27411.2
F0444	28192	F0566	27888	F0693	27564	F0765.2	27414
F0446	28188	F0570	27892	F0694.5	27560	F0765.4	27415
F0448	28180	F0570.1	27896	F0698	27528	F0765.5	27416
F0449	28184	F0576	27884	F0700	27540	F0765.6	27420
F0452	28176	F0577	27880	F0700.1	27548	F0765.65	27424
F0455	28160	F0578	27868	F0702	27552	F0765.8	27428
F0455.1	28164	F0579	27864	F0702.1	27556	F0766	27432
F0455.6	28168	F0580	27856	F0703	27544	F0766.2	27440
F0456	28156	F0583	27850	F0705	27520	F0766.4	27448
F0468	28132	F0586	27840	F0706	27516	F0766.6	27436
F0469.5	28130	F0587	27844	F0706.5	27517	F0766.65	27444
F0469.7	28129.55	F0588	27836	F0710	27512	F0766.8	27452
F0469.8	28129.5	F0590	27828	F0712	27504	F0767	27456
F0469.9	28129	F0592	27832	F0715	27502	F0767.05	27464
F0469.95	28128.5	F0596	27820	F0717	27496	F0767.2	27460
F0470	28128	F0596.1	27824	F0718	27492	F0767.6	27466
F0472	28124	F0597	27808	F0720	27476	F0783	27303
F0476	28120	F0598	27804	F0722	27480	F0784	27303.3
F0478	28116	F0600	27800	F0724	27472	F0785	27304
F0479	28112	F0606	27772	F0726	27484	F0786	27312
F0480	28108	F0607	27776	F0727	27488	F0787	27308
F0484	28100	F0610	27780	F0730	27200	F0788	27316
F0488	28096	F0610.1	27784	F0734	27176	F0789	27318
F0489	28092	F0613	27788	F0735	27192	F0790	27320
F0491	28088	F0613.1	27792	F0735.1	27196	F0791	27324
F0491.5	28084	F0614	27796	F0735.5	27188	F0793	27336
F0491.8	28080	F0622	27760	F0735.6	27189	F0795	27328
F0492	28076	F0622.2	27764	F0735.7	27189.1	F0800	27344
F0493	28072	F0623	27764.4	F0736	27180	F0804	27332
F0494	28068	F0623.1	27764.41	F0736.1	27184	F0805	27340
F0496	28064	F0623.2	27764.5	F0738	27172	F0820	27296
F0498	28056	F0623.3	27764.51	F0749	27588	F0820.1	27300
F0499	28060	F0628	27768	F0750	27580	F0824	27292
F0500	28052	F0634	27756	F0752	27572	F0826	27288
F0501	28048	F0636.2	27752.1	F0752.5	27574	F0830	27284
F0502	28044	F0636.5	27752.2	F0754	27576	F0832	27282
F0514	27952	F0636.6	27752.3	F0754.2	27592	F0834	27280
F0515	27960	F0636.7	27752.4	F0754.4	27596	F0836	27276
F0516	27956	F0636.8	27752.5	F0754.6	27598	F0840	27272
F0520	27968	F0636.9	27752.6	F0754.7	27600	F0842	27268
F0521	27972	F0637	27748	F0755	27616	F0844	27264
F0523	27976	F0638	27744	F0755.2	27620	F0846	27260
F0528	27984	F0644	27732	F0755.5	27624	F0852	27244
F0528.1	27988	F0648	27724	F0755.6	27608	F0853	27248
F0532	27992	F0651	27716	F0756	27604	F0857	27256
F0534	27996	F0652	27712	F0757	27612	F0858	27254
F0546	28004	F0655	27708	F0758	27468	F0862	27252
F0547	28008	F0656	27709	F0758.1	27470	F0864.2	27236
F0547.1	28012	F0657	27710	F0762.9	27394	F0866	27232
F0548	28016	F0658	27704	F0763.15	27396	F0870	27228
F0548.1	28020	F0660	27700	F0763.2	27400	F0874	27212
F0549	28024	F0664	27696	F0763.4	27402	F0875	27208
F0551	28040	F0666	27688	F0763.6	27404	F0876	27204
F0552.3	28014	F0666.1	27692	F0764	27376	F0877	27216
F0552.31	28014.5	F0668	27684	F0764.2	27380	F0878	27220
F0556	27936	F0668.5	27680	F0764.4	27372	F0884	27364
F0556.5	27940	F0669.5	27676	F0764.6	27384	F0886	27368
F0556.51	27944	F0671	27672	F0764.8	27388	F0900	27168
F0557	27932	F0672	27668	F0764.85	27392	F0901	27152
F0557.6	27924	F0674	27664	F0764.9	27408	F0901.1	27156
F0558	27928	F0678	27660	F0765	27412	F0901.5	27151
F0559	27916	F0682	27652	F0765.1	27411	F0901.7	27150

CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

Inter.	— U.S.	Inter.	— U.S.	Inter.	— U.S.	Inter.	— U.S.
F0901.9	27148	F1003	26940	F1101.2	26648	F1202.66	26520
F0902	27145	F1004.4	26937	F1106	26660	F1202.68	26518
F0904	27160	F1005.2	26908	F1106.1	26664	F1202.8	26516
F0904.1	27164	F1005.4	26912	F1126	26596	F1202.9	26514
F0906	27167	F1005.6	26916	F1128	26592	F1203	26512
F0910	27144	F1005.605	26918	F1131	26588	F1204	26508
F0914	27140	F1005.61	26920	F1132	26584	F1205	26492
F0914.53	27139.1	F1005.611	26921	F1136	26580	F1207	26496
F0914.531	27139	F1005.612	26921.5	F1138	26572	F1208	26500
F0915	27138.1	F1005.613	26922	F1144	26576	F1208.5	26501
F0915.1	27138	F1005.614	26922.5	F1158	26570	F1209.5	26502
F0916	27136	F1005.8	26924	F1159	22229	F1210	26504
F0918	27134	F1005.81	26928	F1160	22228	F1210.5	26513
F0919	27132	F1005.9	26932	F1161	22224	F1211	26476
F0919.1	27126	F1005.92	26936	F1162	22216	F1212	26480
F0920	27120	F1006	26900	F1163	22220	F1212.5	26481
F0926	27112	F1018	26842	F1164	22212	F1212.8	26482
F0927.5	23022	F1023	26846	F1165	22208	F1213	26488
F0929	27110	F1024	26852	F1166	22204	F1214	26484
F0932	27108	F1024.5	26847	F1166.8	22215	F1220	26464
F0934	27104	F1028	26860	F1167	22214	F1222.4	26452
F0935	27100	F1029	26861	F1168	22200	F1222.5	26451.4
F0936	27072	F1031.45	26862	F1170	22184	F1222.55	26451.3
F0940	27076	F1031.46	26863	F1174	22188	F1222.58	26451.1
F0941	27078	F1032.7	26865	F1174.3	22189	F1222.65	26450
F0942	27080	F1034	26868	F1174.5	22189.1	F1222.8	26451.2
F0943	27096	F1034.5	26869	F1174.6	22189.3	F1223	26446
F0944	27084	F1035	26892	F1174.61	22189.31	F1223.4	26448
F0947	27071	F1045.5	26840	F1175	22190	F1223.6	26440
F0950	27068	F1048	26764	F1175.2	22190.2	F1223.8	26439
F0951	27064	F1049	26792	F1175.4	22190.4	F1224	26424
F0952	27060	F1050	26772	F1178	22196	F1224.1	26437
F0952.3	27057	F1050.4	26776	F1182	22192	F1224.9	26436.5
F0952.5	27056	F1050.41	26780	F1182.6	22191	F1225	26428
F0952.8	27054	F1051	26784	F1182.601	22191.5	F1226	26432
F0952.9	27055	F1051.1	26788	F1182.8	22181	F1226.1	26436
F0953	27052	F1052	26804	F1183	22180	F1227.1	26426
F0955	27044	F1052.1	26808	F1184	22176	F1234	23202
F0957	27040	F1053	26812	F1184.5	22177	F1235	23209
F0958	27032	F1053.1	26816	F1184.6	22177.1	F1235.5	23209.2
F0960	27024	F1053.4	26820	F1184.8	22178	F1236	23212
F0962	27028	F1053.41	26824	F1184.9	22178.1	F1236.5	23216
F0962.4	27027	F1053.8	26826	F1185.1	22179	F1237	23210
F0962.5	27026	F1053.81	26826.1	F1185.2	22179.2	F1238	23220
F0964	27020	F1054	26760	F1185.4	22179.4	F1241	23224
F0966	27016	F1056.4	26756	F1185.5	22179.6	F1242	23224.5
F0968	27012	F1057	26752	F1186	22172	F1242.5	23225
F0969.2	27010	F1058	26748	F1188	22168	F1244	23228
F0969.21	27010.5	F1059	26744	F1192.4	22152	F1245	23271
F0970	26972	F1060.5	26736	F1192.5	22156	F1248	23248
F0971	26976	F1061	26728	F1193	22160	F1248.2	23256
F0973.02	26996	F1062	26732	F1193.8	22148	F1248.4	23252
F0973.04	27000	F1064	26724	F1194	22144	F1250	23260
F0973.06	27004	F1064.3	26720	F1200	26564	F1251	23262
F0973.08	27008	F1064.5	26716	F1201	26552	F1252	23261
F0973.12	26988	F1065	26708	F1201.1	26560	F1253	23247.5
F0973.14	26992	F1066	26712	F1202	26556	F1254	23240
F0974.4	26980	F1067	26704	F1202.2	26557	F1254.2	23244
F0978	26964	F1068	26688	F1202.3	26542	F1254.4	23244.2
F0980	26960	F1070	26692	F1202.4	26548	F1254.5	23239
F0982	26956	F1074	26680	F1202.45	26544	F1254.6	23238
F0985	26951	F1076.5	23437	F1202.58	26539	F1255	23232
F0988	26948	F1088	26620	F1202.6	26532	F1255.2	23236
F1000	26946	F1100.9	26640	F1202.62	26528	F1256	23245.5
F1002	26944	F1101	26644	F1202.64	26524	F1257	23246

CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

Inter.	— U.S.	Inter.	— U.S.	Inter.	— U.S.	Inter.	— U.S.
F1259	23258	F1321.6	22309	F1396	22500	F1480	22108
F1260	23268.5	F1321.8	22313	F1397	22508	F1482	22104
F1262	23268	F1322	22340	F1398	22578	F1483	22100
F1262.3	23267	F1322.1	22344	F1401.05	22511.1	F1486	22088
F1262.4	23247	F1323	22316	F1401.9	22520	F1490	22092
F1262.5	23269	F1323.2	22320	F1402	22512	F1494	22056
F1263	23284	F1323.4	22324	F1402.1	22516	F1512	22048
F1263.2	23285	F1323.5	22351	F1402.5	22523	F1514	22052
F1263.3	23276	F1323.51	22352	F1402.6	22523.1	F1515.2	22053.5
F1263.5	23272	F1324	22356	F1402.62	22523.3	F1519	22032
F1264	23288	F1326	22360	F1402.64	22523.5	F1519.5	22034
F1264.5	23280	F1327	22364	F1403	22524	F1522	22036
F1265	23259	F1327.5	22368	F1403.9	22532	F1523	22040
F1265.5	23290	F1327.8	22369	F1404	22528	F1523.5	22031
F1266.3	23289	F1328	22372	F1404.1	22536	F1524	22064
F1267	23292	F1329	22374	F1406	22542	F1524.1	22068
F1267.5	23291	F1330	22376	F1407	22544	F1525	22072
F1270	23300	F1330.1	22380	F1411	22552	F1525.1	22076
F1270.5	23298	F1330.5	22384	F1412.6	22573	F1526.4	22026.1
F1271	23296	F1330.6	22388	F1413	22556	F1526.5	22026
F1271.5	23295	F1330.7	22392	F1413.1	22560	F1527	22020
F1273	23304	F1334	22394	F1413.5	22580	F1527.1	22024
F1273.5	23305	F1337	22395	F1413.7	22580.7	F1529	22016
F1274	23316	F1337.5	22395.1	F1417	22590	F1532	22008
F1274.5	23308	F1352	22400	F1417.2	22602	F1532.1	22012
F1275	23312	F1355.9	22412	F1417.4	22585	F1536	22006
F1276	23311	F1356	22416	F1417.42	22585.1	F1536.1	22005.6
F1277	23310.5	F1356.01	22420	F1417.43	22585.2	F1536.3	22005.4
F1278	23310	F1356.05	22417	F1417.5	22588	F1536.5	22005.5
F1278.5	23317	F1362	22424	F1417.6	22587	F1536.7	22005.7
F1279	23318	F1362.1	22428	F1418	22596	F1537	22005.2
F1280	23307	F1362.2	22429.5	F1420	22600	F1537.1	22005.3
F1281	23306	F1362.5	22429	F1422	22608	F1537.3	22005.1
F1284	23320	F1367	22430	F1426	22610	F1537.5	22005
F1289	23326	F1371	22441	F1428	22612	F1538	22000
F1290	23324	F1371.2	22442	F1429	22616	F1538.4	22004
F1291	23322	F1372	22444	F1430	22617	F1540	21992
F1292	23328	F1373	22448	F1438	22696	F1540.3	21998
F1292.2	23328.5	F1374	22450	F1440.2	22704	F1540.6	21996
F1292.3	23329	F1374.5	22449	F1445	22708.5	F1540.8	21999
F1292.35	23329.5	F1375	22452	F1470	22132	F1542.5	21990
F1292.5	23330	F1375.5	22456	F1471	22134	F1543	21988
F1292.7	23331	F1376	22464	F1472	22138	F1544	21984
F1293	22296	F1376.5	22458	F1472.11	22138.1	F1546	21980
F1294	22284	F1377	22470	F1472.12	22138.2	F1550	21976
F1295	22238	F1378	22460	F1473	22140	F1552	21972
F1296	22273	F1378.5	22462	F1474	22120	F1552.5	21970
F1300	22232	F1378.7	22463	F1475	22118	F1553.2	21968
F1302	22236	F1378.71	22463.5	F1476	22124	F1554	21924
F1308	22260	F1379	22468	F1476.1	22367	F1554.9	21928
F1310	22244	F1379.2	22471	F1476.22	22131.2	F1555	21932
F1312	22240	F1379.5	22481	F1476.23	22131	F1555.1	21936
F1313	22252	F1379.51	22481.1	F1476.24	22131.1	F1557	21940
F1313.5	22256	F1382	22480	F1476.3	22130	F1557.3	21952
F1314	22258	F1383	22482	F1476.4	22125	F1557.4	21956
F1315	22268	F1383.1	22482.1	F1476.5	22126	F1558	21960
F1316	22276	F1383.8	22485	F1476.6	22126.5	F1558.5	21912
F1317	22272	F1384.2	22487	F1476.7	22127	F1559	21944
F1319	22286	F1385	22488	F1477.3	22123	F1559.1	21948
F1320.2	22292	F1385.5	22489	F1477.6	22122	F1560	21916
F1321	22312	F1386	22484	F1477.7	22124.5	F1560.2	21920
F1321.1	22314	F1388	22484.5	F1478	22116	F1560.5	21921
F1321.2	22304	F1390	22486	F1478.3	22117	F1560.6	21922
F1321.3	22300	F1395	22492	F1478.4	22117.5	F1560.9	21964.5
F1321.5	22305, 22307.5	F1395.5	22496	F1479	22112	F1562	21965

CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

Inter.	— U.S.	Inter.	— U.S.	Inter.	— U.S.	Inter.	— U.S.
F1562.1	21965.5	F1628	21742	F1690	21552	F1718.6	21354
F1562.4	21966	F1628.1	21744.6	F1690.1	21556	F1718.7	21298
F1562.5	21966.5	F1628.3	21745	F1690.2	21560	F1720	21396
F1563	21967	F1628.35	21745.2	F1690.4	21564	F1720.4	21355.4
F1563.5	21967.5	F1628.4	21745.4	F1690.5	21568	F1720.6	21355
F1565	21900	F1628.45	21745.6	F1690.55	21572	F1721	21300
F1566	21898	F1628.6	21744.4	F1690.6	21544	F1725	21296
F1569	21908	F1628.65	21744.3	F1690.7	21540	F1726.2	21276
F1570	21909	F1629	21744	F1690.72	21545	F1726.4	21280.5
F1572	21896	F1633	21734	F1690.725	21545.5	F1732.5	21268
F1573	21892	F1634	21736	F1690.73	21546	F1733	21260
F1573.5	21884	F1636	21740	F1691.8	21491	F1733.17	21264
F1574.3	21880	F1637	21735	F1692	21492	F1733.18	21265
F1574.4	21878	F1640	21732	F1693	21500	F1733.19	21202
F1574.6	21876	F1641	21731	F1693.2	21504	F1734	21200.7
F1576	21864	F1642	21730	F1693.9	21495	F1735	21200.3
F1576.2	21874	F1644	21728	F1693.95	21487	F1735.6	21200.4
F1576.4	21868	F1646	21724	F1694	21480	F1736	21200
F1577	21866	F1646.2	21725	F1694.2	21484	F1736.5	21201
F1578	21860	F1646.5	21726	F1694.6	22592	F1736.55	21201.5
F1579	21862	F1648	21718	F1694.7	21476	F1736.95	21182
F1580	21861	F1650	21716	F1695	21508	F1736.951	21182.1
F1584	21851	F1652	21708	F1695.3	21528	F1736.96	21182.2
F1585	21856	F1652.5	21712	F1695.6	21464	F1736.965	21182.6
F1586	21848	F1653.5	21703.5	F1696	21400	F1736.97	21182.3
F1591	21846	F1654	21703	F1697	21408	F1736.975	21182.4
F1591.2	21846.2	F1655	21701	F1697.2	21412	F1736.98	21182.5
F1592	21836	F1657	21699	F1697.3	21416	F1737	21184
F1592.1	21840	F1658	21698	F1697.5	21436	F1737.2	21185
F1594	21820	F1660	21696	F1697.7	21424	F1738	21189
F1595	21834	F1668	21692	F1697.73	21428	F1739	21204
F1597	21826	F1669	21690	F1697.96	21460	F1740	21208
F1604	21828	F1669.1	21691	F1697.965	21460.5	F1742	21212
F1604.1	21832	F1670	21688	F1697.97	21461	F1744	21216
F1606	21816	F1670.1	21689	F1697.971	21461.1	F1745	21222
F1608	21808	F1674	22584	F1697.979	21461.9	F1748	21220
F1609	21806	F1674.05	22581	F1697.981	21461.3	F1766	21240
F1609.1	21806.1	F1674.1	22584.2	F1697.982	21461.5	F1766.1	21244
F1612	21800	F1674.2	22584.6	F1697.983	21461.7	F1770.6	21252
F1614	21780	F1674.3	22584.8	F1697.99	21462	F1770.62	21256
F1614.5	21782	F1674.4	22584.4	F1697.995	21320	F1771.6	22620.1
F1616	21784	F1674.5	22586	F1698	21336	F1772	22620
F1616.5	21795	F1676	21687	F1699	21340	F1772.1	22618
F1617	21788	F1676.2	21687.1	F1699.5	21342	F1772.15	22619
F1617.2	21792	F1676.5	21686.5	F1700.1	21596	F1772.2	22619.5
F1617.4	21794	F1678	21686.1	F1700.38	21625	F1772.3	22620.5
F1619	21776	F1679	21682	F1700.39	21625.1	F1772.31	22620.6
F1619.4	21774	F1679.2	21682.1	F1700.6	21590	F1772.36	22620.7
F1619.7	21773.5	F1680	21686	F1700.65	21590.5	F1772.4	22621
F1620	21772	F1681	21685	F1700.7	21591	F1772.41	22621.5
F1620.3	21773	F1684	21656	F1700.74	21592	F1772.48	22620.8
F1620.5	21771	F1684.4	21681	F1701.2	21624	F1773	22624
F1621	21770	F1684.5	21681.1	F1701.22	21620	F1774	22632
F1621.5	21768	F1685.03	21664	F1701.6	21601	F1775	22636
F1622	21764	F1685.05	21672	F1701.62	21601.1	F1775.1	22633
F1622.5	21760	F1685.48	21604	F1701.75	21588	F1776	22640
F1623	21752	F1685.6	21608	F1701.8	21586	F1778	22641
F1623.6	21756	F1685.65	21660	F1701.81	21586.1	F1780	22644
F1625	21748.5	F1685.8	21632	F1704	21392	F1780.1	22648
F1626	21748	F1686	21628	F1708	21354.5	F1786	22652
F1627	21749	F1686.3	21636	F1708.1	21354.6	F1787	22642
F1627.4	21750	F1687	21580	F1716	21352	F1788	22643
F1627.6	21746	F1688	21576	F1717	21343	F1790	22656
F1627.8	21747	F1688.7	21574	F1718	21344	F1796	22664
F1627.9	21746.5	F1688.8	21574.5	F1718.4	21332	F1796.1	22668

CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

Inter.	— U.S.	Inter.	— U.S.	Inter.	— U.S.	Inter.	— U.S.
F1798	22660	F1895.15	23876	F1925.58	24176.6	F1951.6	24418
F1802	22676	F1895.151	23880	F1925.8	24184	F1951.8	24404
F1806	22672	F1896	23888	F1926	24188	F1953.2	24442.1
F1807	22680	F1896.4	23900	F1926.1	24192	F1953.4	24442.2
F1807.1	22684	F1896.85	23906	F1926.6	24196	F1954.2	24443
F1807.5	22692	F1897	23908	F1928	24204	F1954.5	24445
F1808	22695	F1898	23916	F1928.1	24208	F1955	24446
F1809	22694	F1900	23920	F1929	24212	F1955.6	24448
F1812	21176	F1900.1	23924	F1930	24216	F1955.7	24452
F1820	21188	F1901	23928	F1932.9	24238	F1955.8	24457
F1821	21186	F1901.1	23932	F1934	24240	F1956	24464
F1822	21180	F1901.4	23936	F1934.5	24241	F1956.6	24468
F1828	21097	F1901.6	23940	F1934.51	24241.5	F1957	24472
F1830	21096.5	F1902.2	23944	F1934.8	24248	F1957.3	24476
F1830.5	21096.7	F1902.4	23952	F1934.9	24244	F1957.6	24492
F1830.55	21096.8	F1904.2	23996	F1935	24245	F1957.7	24496
F1830.6	21097.7	F1904.45	23892	F1935.2	24245.2	F1957.8	24484
F1830.7	21097.65	F1904.6	24016	F1936	24368	F1957.9	24488
F1830.8	21097.6	F1904.7	24028	F1936.4	24336	F1958	24480
F1831	21097.5	F1904.75	24024	F1936.42	24340	F1958.05	24500
F1832	21096	F1904.88	24026	F1936.43	24344	F1958.2	24504
F1834	21097.8	F1904.9	24040	F1936.44	24348	F1958.9	24508
F1835	21117	F1905	24044	F1936.45	24352	F1959.4	24511
F1836.1	21121	F1905.6	24056	F1936.46	24356	F1959.44	24510.9
F1836.3	21120	F1905.8	24052	F1936.47	24362	F1959.45	24510.8
F1836.5	21112	F1908	24068	F1936.5	24328	F1959.46	24510.7
F1836.6	21114	F1909.1	24078	F1936.51	24332	F1959.8	24510
F1836.7	21108	F1909.4	24076	F1936.55	24334	F1959.82	24513
F1836.8	21101	F1909.6	24060	F1936.56	24335	F1961.3	24515
F1837	21102	F1910	24072	F1936.6	24360	F1961.5	24520
F1837.6	21104	F1913	24084	F1937	24364	F1962	24524
F1837.65	21104.5	F1913.9	24093	F1937.2	24365	F1964	24532
F1837.7	21105	F1914	24088	F1937.25	24366	F1968	24536
F1837.75	21104.7	F1914.2	24090	F1937.3	24367	F1969	24540
F1837.8	21106	F1915	24096	F1938	24316	F1970	24544
F1838	21100	F1915.5	24100	F1939	24256	F1971	24546
F1838.3	21098	F1916	24104	F1939.5	24256.2	F1973	24547
F1838.35	21100.1	F1916.4	24108	F1940	24257	F1974	24545.5
F1844	25108	F1917	24112	F1940.2	24258	F1974.3	24545
F1845	25107	F1917.4	24116	F1940.21	24259	F1976.2	24553
F1847	25104	F1918.21	24122	F1940.3	24260	F1977.5	24561
F1848	25106	F1918.4	24120.5	F1940.4	24264	F1978	24568
F1850	25100	F1920	24124	F1941	24265	F1978.6	24564
F1854	25096	F1920.2	24125	F1941.1	24266	F1978.8	24570
F1872	25072	F1922.4	24134	F1941.2	24268	F1978.9	24584
F1872.1	25076	F1922.41	24134.1	F1941.6	24272	F1979	24580
F1872.3	25077	F1923.41	24140	F1941.8	24276	F1979.3	24585
F1872.4	25077.2	F1923.6	24142	F1942	24280	F1979.7	24587
F1872.5	25077.4	F1923.7	24144	F1942.4	24284	F1979.8	24589
F1872.6	25069	F1924	24156	F1942.7	24288	F1981	24593
F1873.2	25079	F1924.1	24160	F1942.9	24290	F1982	24596
F1879	25081	F1924.3	24164	F1943	24292	F1982.08	24596.2
F1880	25080	F1925	24168	F1943.2	24294	F1982.14	24596.4
F1883	25082	F1925.2	24172	F1943.3	24295	F1982.4	24600
F1885	25084	F1925.21	24176	F1943.4	24296	F1984	24604
F1887	25086	F1925.25	24176.7	F1943.5	24298	F1985	24606
F1887.5	25086.2	F1925.3	24177	F1945	24315	F1985.3	24609
F1888	25086.3	F1925.31	24178	F1945.2	24386.2	F1985.5	24610
F1888.5	25086.4	F1925.33	24178.6	F1946	24387	F1985.7	24608.2
F1889	25086.5	F1925.35	24178.5	F1946.3	24387.5	F1986	24608
F1890	25088	F1925.4	24179	F1946.5	24388	F1986.5	24605
F1891	25092	F1925.45	24179.5	F1947	24392	F1987	24612
F1892	25094	F1925.5	24180.5	F1948	24440	F1987.5	24616
F1892.1	25094.2	F1925.55	24180	F1949	24396	F1988	24620
F1894	23872	F1925.57	24176.3	F1951.3	24424	F1988.3	24624

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Inter.	— U.S.
F1989	24632
F1990	24636
F1990.2	24640
F1990.24	24644
F1990.3	24648
F1990.4	24652
F1990.5	24656
F1991	24664
F1991.3	24668
F1991.32	24672
F1991.36	24676
F1991.38	24680
F1991.6	24684
F1991.72	24682
F1991.84	24683
F1991.85	24683.5
F1992	24688
F1992.14	24700
F1992.2	24704
F1992.3	24696
F1992.7	24708
F1993.5	24716
F1994	24728
F1995.4	24732
F1997	24736
F1999	24740
F1999.3	24731
F1999.6	24744
F1999.65	24746
F1999.7	24745
F1999.73	24745.5
F1999.75	24744.5
F1999.8	24747
F1999.9	24749
F2000	24752
F2000.5	24753
F2001	24754
F2002	24756
F2007	24770
F2008	24764
F2008.1	24768
F2009	24762
F2010	24772
F2010.2	24771
F2014.3	24772.5
F2014.5	24773.1
F2015	24774
F2015.5	24773
F2015.7	24775
F2016	24776
F2016.5	24775.1
F2018	24780
F2019	24775.5
F2020	24782
F2022	24784
F2022.3	24787
F2022.5	24786
F2024.2	24779
F2024.3	24778
F2024.5	24788
F2024.6	24790
F2024.65	24792.5
F2024.7	24792
F2024.73	24793
F2024.75	24794
F2024.8	24796
F2024.81	24794.1
F2024.82	24794.2
F2025	24796.6
F2025.1	24796.7
F2025.4	24797
F2025.41	24797.1
F2025.6	24797.4
F2025.61	24797.5
F2025.7	24797.8
F2025.8	24798
F2025.9	24799
F2027	24808
F2028	24800
F2028.1	24804
F2028.2	24810
F2028.21	24810.1
F2028.3	24812
F2028.31	24816
F2028.9	24817.4
F2029	24817
F2029.1	24817.2
F2029.4	24818
F2029.41	24818.1
F2029.7	24818.5
F2029.8	24818.7
F2030	24818.4
F2030.2	24818.3
F2031	24819
F2031.1	24819.1
F2040	25114
F2044	25120
F2045	25119
F2046	25118
F2047	25121
F2047.5	25122
F2048	25116
F2050	25112
F2051	25111.7
F2052	25113
F2054	25124
F2058	25126
F2060	25128
F2061.1	25129
F2062	25132
F2062.5	25134
F2063	25136
F2063.3	25137
F2063.8	25139
F2064	25140
F2064.4	25142
F2066	25144
F2068	25148
F2070	25152
F2070.5	25156.2
F2071	25156.5
F2072	25156
F2077	25158
F2078	25160
F2079	25172
F2079.5	25164
F2079.55	25162
F2079.57	25157
F2079.6	25168
F2079.7	25169
F2082	25228
F2083	25232
F2083.3	25234
F2086	25236
F2086.5	25238
F2087	25237
F2100	25208
F2105	25212
F2105.5	25216
F2106	25217
F2107	25224
F2107.3	25210
F2107.5	25222.7
F2107.56	25222.8
F2107.8	25222.45
F2108	25223
F2109	25218
F2109.2	25219
F2109.8	25222.65
F2110	25222
F2110.3	25222.4
F2110.5	25220, 25222.3
F2111.3	25222.55
F2111.5	25222.5
F2111.8	25222.6
F2114	25176
F2116	25180
F2119	25186
F2120	25184
F2120.5	25188
F2123	25190
F2124	25192
F2126	25196
F2127	25194
F2127.5	25196.5
F2128	25197
F2130	25204
F2132	25202
F2132.5	25198.5
F2133	25198
F2133.5	25197.8
F2134	25199
F2134.5	25200.5
F2134.8	25200.2
F2135	25200
F2135.5	25201
F2136	25197.5
F2137	25197.2
F2138	15156
F2142	14544
F2152	14540
F2156	14536
F2158	14534
F2159	14542
F2160	14532
F2160.5	14527.5
F2161	14527
F2162	14526
F2163	14524
F2164	14520
F2165	14518.5
F2166	14518
F2167	14519
F2168	14516
F2169	14514.7
F2169.25	14516.8
F2169.5	14517
F2170	14515
F2171	14514
F2172	14513
F2173	14494
F2174	14496
F2176	14497
F2179.2	14497.2
F2180	14497.4
F2189	15246
F2190	15248
F2191	15252
F2192	15236
F2192.5	15236.5
F2194	15244
F2196	15232
F2200	15240
F2204	15228
F2206	15224
F2207	15215
F2207.5	15214.7
F2207.8	15214.8
F2208	15214.5
F2209	15214.3
F2210	15214
F2214	15216
F2216	15220
F2218	15200
F2219	15212
F2220	15204
F2221	15222
F2222.5	15198
F2224	15196
F2224.2	15197
F2224.5	15195
F2224.7	15194
F2225	15192
F2225.2	15191.7
F2225.3	15191.5
F2225.5	15190
F2226	15188
F2226.1	15189
F2226.2	15187
F2226.5	15186
F2226.7	15162
F2226.8	15161.5
F2227	15181.8
F2227.2	15182
F2228	15184
F2228.3	15185
F2228.5	15185.5
F2228.6	15181.7
F2228.7	15181.5
F2228.9	15181.3
F2229	15181
F2230	15168
F2231	15172
F2231.2	15176
F2231.3	15178
F2231.4	15180
F2232	15160
F2233	15160.1
F2234	15164
F2234.5	15166

CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

Inter.	— U.S.	Inter.	— U.S.	Inter.	— U.S.	Inter.	— U.S.
F2235	15163	F2281.8	15051.8	F2356.4	14748	F2413	15040
F2235.3	15161	F2282	15052	F2356.6	14750	F2415	15039
F2235.5	15167	F2284	15048	F2357	14684	F2416	14888
F2235.7	15167.3	F2286	14508	F2357.4	14676	F2418	14892
F2236	15152	F2286.5	14506	F2357.6	14680	F2420	14908
F2237	15150	F2287	14504	F2357.7	14681	F2421	14907
F2238	15148	F2287.2	14499	F2358.2	14686	F2423.1	14896
F2239	15151	F2287.4	14498.5	F2358.5	14686.2	F2423.5	14912
F2239.3	15147.5	F2287.5	14498	F2359	14686.7	F2425	14932.5
F2239.5	15147	F2287.7	14478	F2359.5	14716	F2426	14936
F2240	15146	F2287.75	14477	F2359.7	14717	F2426.1	14937
F2242	15144	F2288	14500	F2359.85	14774	F2426.2	14936.5
F2243	15145	F2292	14624	F2360	14816	F2426.5	15125
F2243.5	15142	F2292.5	14598	F2362	14752	F2426.6	14938.6
F2244	15140	F2293	14622	F2363	14760	F2427	14938
F2245	15138	F2293.5	14623	F2364	14768	F2427.2	14938.5
F2245.5	15017	F2293.8	14623.5	F2366	14772	F2427.5	14939
F2246	15136	F2293.85	14623.55	F2367	14783	F2428	14940
F2247	15134	F2294	14648	F2368	14784	F2429	14944
F2247.2	15134.4	F2296	14652	F2368.1	14788	F2430	14948
F2247.5	15130	F2297	14665	F2369	14793	F2434	14952
F2247.6	15131	F2298	14660	F2370	14792	F2435	14953
F2248	15132	F2300	14664	F2371	14791	F2435.5	14954
F2250	15128	F2301	14626	F2374	14884	F2436	14956
F2252	15126	F2302	14628	F2374.5	14866	F2436.5	14958
F2252.5	14935.7	F2303	14629	F2375	14880	F2436.7	14958.2
F2252.7	14933	F2304	14632	F2376	14852	F2436.8	14969
F2253	14935	F2305	14636	F2378	14863	F2437	14964
F2253.5	14935.5	F2306	14640	F2378.4	14864.3	F2438	14960
F2253.8	15125.5	F2307	14642	F2378.6	14864.4	F2440	14976
F2253.9	15124.5	F2308	14644	F2378.7	14864.8	F2442	14968
F2254	15124	F2310	14656	F2378.8	14864.9	F2442.2	14971
F2256	15120	F2314	14668	F2380	14868	F2442.5	14970
F2258	15116	F2316	14688	F2382	14872	F2443	14972
F2261.4	15108	F2318	14687	F2383	14885	F2444	14980
F2261.5	15110	F2319	14694	F2383.5	14875	F2446	14996
F2261.7	15112	F2319.5	14695	F2384	14876	F2447	14997
F2261.9	15104.3	F2320	14692	F2384.3	14876.5	F2448	15004
F2262	15104	F2326	14700	F2384.4	14877.3	F2448.3	15005.5
F2263	15106	F2326.2	14696	F2384.6	14877	F2448.5	15005
F2263.5	15105	F2327	14702	F2385	14877.8	F2449	15006
F2264	15100	F2328	14708	F2385.3	14878	F2450	15012
F2264.3	15101	F2329	14706	F2385.7	14877.6	F2452	15008
F2264.5	15099	F2330	14877.7	F2386	14856	F2452.5	15014
F2264.8	15098.5	F2332	14720	F2387	14860	F2453	15016
F2265	15098	F2334	14724	F2387.5	14862	F2454	15020
F2265.5	15097	F2335	14724.3	F2387.57	14878.6	F2454.7	14932
F2266	15092	F2336	14725	F2387.58	14878.8	F2455	14928
F2266.5	15093	F2336.5	14727	F2387.6	14879	F2456	14924
F2267	15094	F2336.8	14727.5	F2387.7	14861	F2457	14916
F2267.5	15095	F2337	14728	F2388	14848	F2458	14920
F2268	15088	F2338	14512	F2390	14846	F2462	15024
F2269	15081	F2339	14512.1	F2393	14845	F2464	15028
F2270	15082	F2340	14528	F2398	14845.4	F2465	15022
F2270.1	15084	F2344	14796	F2399	14832	F2466	15036
F2274	15080	F2344.5	14781	F2400	14828	F2468	15034
F2275	15070	F2345	14730	F2401	14826	F2470	15032
F2275.5	15069	F2346	14732	F2402	14824	F2472	15044
F2276	15068	F2347	14736	F2404	14820	F2473	15037
F2278	15066	F2348	14780	F2405	14819	F2474	14988
F2280	15064	F2350	14776	F2406	14800	F2480	15000
F2280.4	15060	F2350.5	14775	F2408	14804	F2482	14992
F2281	15056	F2352	14764	F2410	14808	F2484	14984
F2281.3	15051	F2354	14744	F2412	14812	F2488	14148
F2281.6	15050	F2356	14740	F2412.5	14810	F2492	14152

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Inter.	— U.S.	Inter.	— U.S.	Inter.	— U.S.	Inter.	— U.S.
F2494	14156	F2568	14448	F2663	14300	F2747.7	14037
F2498	14616	F2569	14450	F2669	14324	F2747.8	14038
F2500	14620	F2570	14488	F2670	14328	F2747.9	14040.5
F2502	14612	F2574	14492	F2670.5	14332	F2748	14040
F2503	14602	F2574.5	14486	F2670.8	14334	F2748.5	14040.7
F2503.2	14602.5	F2575	14484	F2672.8	14360	F2749	14044
F2503.5	14603	F2576	14480	F2673	14364	F2749.2	14044.5
F2503.7	14135.5	F2580	14184	F2673.4	14368	F2749.5	14045
F2503.8	14182	F2584	14188	F2674	14372	F2750	14056
F2504	14134	F2586	14192	F2675	14376	F2754	14064
F2504.2	14133	F2588	14200	F2675.3	14372.8	F2755	14063
F2504.5	14134.5	F2590	14204	F2675.4	14372.5	F2756	14068
F2505	14135	F2594	14208	F2675.45	14374	F2756.5	14070
F2505.3	14135.3	F2596	14210	F2675.46	14374.1	F2757	14060
F2506	14607	F2598	14212	F2675.5	14374.7	F2758	14072
F2508	14604	F2600	14216	F2675.52	14374.8	F2759	14074
F2510	14600	F2602	14196	F2675.8	14366	F2760	14076
F2511	14594	F2603	14218	F2676	14377	F2762	14080
F2512	14596	F2604	14220	F2677	14381	F2764	14052
F2512.5	14596.5	F2604.2	14221	F2680	14380	F2766	14048
F2513	14597	F2604.6	14222	F2682	14384	F2767	14050
F2514	14560	F2604.8	14226	F2684	14388	F2769	14051
F2516	14552	F2604.9	14229	F2686	14390	F2772	14084
F2517	14556	F2605	14227	F2686.6	14391	F2774	14088
F2519	14550	F2605.1	14227.1	F2688	14392	F2775	14089
F2520	14548	F2605.4	14228	F2689	14397	F2775.5	14090
F2523	14578	F2606.6	14232	F2690	14396	F2776	14092.3
F2524	14580	F2607	14224	F2690.5	14396.2	F2778	14092
F2525	14582	F2607.5	14234	F2691	14398	F2778.5	14093
F2526	14584	F2608	14236	F2692	14399	F2779	14095
F2527	14588	F2610	14240	F2694	14400	F2780	14116
F2527.6	14592	F2614	14244	F2696	14405	F2782	14114
F2527.7	14593	F2615	14261	F2697	14406	F2784	14096
F2527.8	14564	F2616	14248	F2698	14408	F2786	14100
F2528	14576	F2618	14252	F2702	14412	F2788	14104
F2528.5	14566	F2620	14256	F2702.1	14416	F2790	14108
F2529	14568	F2624	14260	F2705	14424	F2794	14112
F2530	14572	F2626	14262	F2708	14428	F2798	14120
F2531	14474	F2630	14268	F2712	14432	F2798.5	14122
F2532	14473	F2632	14264	F2713	14434	F2800	14129
F2533	14475	F2634	14272	F2714	14436	F2802	14124
F2534	14180	F2634.5	14274	F2715	14438	F2802.1	14128
F2535	14170	F2635	14276	F2716	14440	F2808	14136
F2535.5	14169	F2635.5	14280	F2718	14442	F2809	14138
F2536	14164	F2636	14344	F2720	13996	F2809.5	14130
F2538	14168	F2639	14352	F2722	14000	F2810	14132
F2540	14176	F2639.1	14356	F2723	14002	F2813	14129.4
F2544	14172	F2640	14340	F2724	14004	F2814	14140
F2546	14160	F2642.4	14335	F2728	14008	F2818	14144
F2547	14150	F2642.6	14334.8	F2728.5	14009	F2818.4	14145
F2549.3	14475.4	F2643	14284	F2729	14012	F2818.8	14146
F2549.5	14472.5	F2645	14286	F2730	14016	F2819	13985
F2550	14472	F2645.5	14287	F2730.5	14014	F2819.5	13991.5
F2551	14470	F2645.8	14287.3	F2732	14020	F2820	13991
F2552	14476	F2645.9	14286.2	F2735	14007	F2822	13988
F2553	14469	F2647	14288	F2737	14006	F2822.5	13990
F2554	14468	F2647.2	14288.1	F2742	14024	F2823	13992
F2554.5	14467	F2648	14292	F2743	14024.6	F2823.2	20289.7
F2555	14462	F2650	14304	F2746	14028	F2824	20289.6
F2556	14466	F2653	14320	F2746.1	14032	F2824.5	20289.2
F2558	14464	F2653.5	14321	F2747	14036	F2825	20289
F2560	14452	F2654	14316	F2747.5	14026	F2825.1	20290
F2562	14456	F2660	14308	F2747.6	14025	F2825.15	20290.1
F2564	14460	F2660.2	14312	F2747.65	14036.4	F2825.17	20289.8
F2566	14465	F2662	14296	F2747.67	14036.5	F2825.18	20290.8

CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

Inter.	— U.S.	Inter.	— U.S.	Inter.	— U.S.	Inter.	— U.S.
F2825.19	20290.6	F2869	21020	F2916.3	20840	F2973	20640
F2825.192	20291.4	F2869.07	21022	F2916.5	20840.1	F2973.5	20616
F2825.193	20291.6	F2869.15	21016	F2917	20844	F2974	20634
F2825.194	20291.2	F2869.26	21013	F2917.3	20844.1	F2975	20628
F2825.195	20291	F2869.261	21014	F2918	20848	F2975.1	20632
F2825.196	20290.4	F2869.27	21011	F2920	20808	F2975.3	20624
F2825.197	20290.2	F2869.3	21012	F2922	20800	F2975.4	20620
F2825.2	24376	F2869.4	21008	F2923	20804	F2976	20608
F2825.3	24380	F2869.5	21006	F2924	20796	F2982	20612
F2825.4	24384	F2869.7	21003	F2924.2	20797	F2984	20604
F2826	21172	F2869.8	21002	F2924.3	20797.1	F2985	20603.5
F2827	21173	F2870	21004	F2928	20792	F2986.1	20601
F2830	21169	F2873	21005	F2930	20788	F2986.11	20601.1
F2831	21169.5	F2876	21000	F2932	20784	F2986.5	20602
F2832	21168	F2877	20998	F2932.4	20780	F2986.7	20602.5
F2832.5	21167.5	F2878	20992	F2932.7	20776	F2987.5	20599
F2833	21156	F2878.5	20996	F2933	20772	F2987.6	20597
F2833.4	21160	F2880	20968	F2934	20768	F2987.61	20597.1
F2834	21152	F2880.8	20969	F2934.5	20767	F2988	20600
F2835	21167	F2880.9	20969.1	F2935	20764	F2990	20596
F2835.3	21166	F2881	20974	F2936	20765	F2990.1	20596.5
F2835.5	21165	F2884	20964	F2936.5	20766	F2990.2	20595
F2836	21164	F2885	20960	F2937	20760	F2990.3	20595.5
F2836.1	21150	F2885.03	20959	F2939	20700	F2992	20584
F2836.3	21148	F2885.05	20957	F2941	20704	F2994	20592
F2836.7	21138	F2885.1	20956	F2941.1	20708	F2996	20580
F2836.8	21136	F2885.15	20958	F2942	20724	F2998	20576
F2836.9	21134	F2885.16	20954	F2942.1	20728	F3000	20572
F2837	21140	F2885.17	20955	F2943	20712	F3001	20570
F2837.2	21144	F2885.5	20948	F2943.1	20716	F3002	20568
F2838	21130	F2885.6	20942	F2943.5	20701	F3003	20567
F2840	21124	F2885.65	20941	F2943.51	20702	F3003.5	20567.5
F2842	21122	F2885.7	20940	F2944	20720	F3004	20560
F2845	21088	F2887	20937.5	F2945	20732	F3005	20560.5
F2846.9	21087	F2887.1	20937	F2945.1	20736	F3006	20564
F2847	21076	F2888	20936	F2948	20740	F3006.5	20564.5
F2848	21080	F2888.5	20935	F2948.2	20744	F3007	20564.6
F2848.1	21084	F2889	20934	F2948.4	20748	F3008	20556
F2857	21052	F2890	20932	F2948.6	20752	F3010	20552
F2857.5	21062.4	F2891	20930	F2948.8	20756	F3012	20548
F2858	21056	F2893	20926	F2948.92	20757	F3014	20532
F2858.1	21060	F2893.5	20922	F2953	20690	F3015	20536
F2858.2	21068	F2894	20920	F2954	20672	F3016	20540
F2858.3	21064	F2895	20876	F2958	20668	F3017	20544
F2858.35	21068.4	F2895.4	20878	F2958.8	20666.7	F3021	20496
F2858.5	21068.6	F2895.5	20877	F2959	20666	F3022	20516
F2858.6	21069.6	F2898	20912	F2959.4	20666.5	F3025	20518
F2859	21034	F2900	20896	F2959.8	20666.71	F3028	20520
F2859.1	21034.1	F2904	20880	F2960	20664	F3030	20512
F2860	21034.2	F2905	20884	F2962	20660	F3032	20504
F2860.05	21034.15	F2905.1	20888	F2963	20661	F3032.1	20508
F2860.1	21034.16	F2906	20892	F2963.2	20661.1	F3036	20500
F2860.15	21034.17	F2906.4	20894	F2963.4	20662	F3039	20494
F2860.2	21034.3	F2907	20872	F2963.5	20662.1	F3039.5	20494.5
F2860.6	21035	F2908	20860	F2963.7	20662.3	F3040	20493
F2860.7	21036	F2909	20868	F2963.73	20662.5	F3042	20492
F2860.71	21040	F2910	20856	F2963.75	20662.51	F3046	20476
F2860.76	21040.2	F2912	20852	F2963.86	20662.25	F3048	20480
F2860.8	21040.4	F2914	20832	F2963.88	20662.26	F3048.1	20484
F2860.9	21040.6	F2914.8	20824	F2963.9	20662.4	F3049.5	20486
F2862	21032	F2915	20820	F2963.91	20662.41	F3060	20472
F2863	21041	F2915.2	20816	F2964	20652	F3066	20416
F2863.1	21041.5	F2915.3	20812	F2966	20656	F3070	20428
F2865.1	21042.1	F2915.4	20828	F2968	20648	F3076	20432
F2867	21028	F2916	20836	F2970	20644	F3078	20436

CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

Inter.	— U.S.	Inter.	— U.S.	Inter.	— U.S.	Inter.	— U.S.
F3078.1	20440	F3306	20214	K0844	23201	K0914	23076
F3082	20444	F3306.5	20215.5	K0845	23198	K0920	23048
F3083	20446	F3307	20214.1	K0846	23200	K0920.5	23052
F3084	20448	F3309	20214.2	K0850	23196	K0922	23044
F3084.1	20452	F3310	20214.3	K0850.5	23161	K0922.2	23058
F3116	20412	F3312	20214.4	K0851	23162	K0922.6	23060
F3118	20408	F3312.1	20214.5	K0851.5	23162.2	K0923	23040
F3120	20406	F3313	20214.6	K0852	23162.4	K0923.2	23064
F3122	20404	F3313.1	20214.7	K0852.5	23162.6	K0923.5	23036
F3134	20384	F3314	20214.8	K0853	23162.8	K0925	23028
F3137	20392	F3314.1	20214.9	K0858	23165	K0926	23024
F3137.2	20396	F3314.8	20213.8	K0860	23188	K0926.5	23020
F3137.4	20397	F3315	20216.5	K0861	23184	K0927	23016
F3137.8	20400	F3427.01	19644.1	K0861.5	23159	K0928	23004
F3138	20388	F3521.46	19629	K0862	23160	K0928.5	23008
F3138.9	20386.1	F3523.32	19565	K0864	23164	K0928.55	23009
F3139	20386	F3578.48	19291	K0868	23172	K0928.6	23009.2
F3139.1	20386.2	F3754.619	18825.03	K0870	23176	K0928.65	23009.4
F3148	20372	F3785.55	18859	K0870.2	23180	K0928.7	23009.6
F3150	20376	F3932.35	18497	K0871	23168	K0929	23012
F3154	20368	F3971.9	18348	K0872.5	23158.5	K0929.2	23013
F3158	20364	F4066.5	18211	K0873	23158	K0929.3	23013.5
F3162	20332	F4665.5	13962.8	K0874	23156	K0929.5	23014
F3176	20324	F4672.4	13612	K0875	23154	K0929.6	23015
F3178	20323	F9307	28122	K0875.7	23153	K0931	22752
F3180	20321.2	F9516.31	24135.5	K0875.8	23152.5	K0932	22756
F3181	20321	F9516.4	24152	K0876	23152	K0932.1	22760
F3184	20320	F9526.3	24141	K0876.2	23153.5	K0934	22764
F3184.2	20320.2	F9527.3	24252	K0876.5	23151	K0934.1	22768
F3200	20319	F9527.48	24249	K0877	23144, 23150	K0936	22770
F3202	20317	F9527.5	24372	K0877.5	23148	K0938	22772
F3203	20316.5	F9531	20966	K0877.6	23153.8	K0938.1	22776
F3203.2	20318	F9532	20965	K0877.8	23138	K0938.4	22780
F3203.3	20318.1	F9534	20291.3	K0878	23137	K0938.41	22784
F3204	20292	F9537.5	24460	K0878.1	23136	K0939	22788
F3206	20296	F9538.2	24528	K0878.5	23135.7	K0939.2	22792
F3209	20312	G7110	15288	K0879	23135.5	K0939.6	22796
F3211	20316	K0800	33036	K0883	23132	K0939.64	22800
F3211.5	20279.5	K0801	33040	K0883.4	23134	K0939.8	22808
F3212	20279	K0802	33056	K0883.5	23135	K0940	22812
F3213	20278	K0805	33044	K0883.55	23126	K0940.4	22816
F3216	20277	K0805.6	33050	K0883.6	23120	K0941.4	22824
F3218	20276.92	K0806	33052	K0883.65	23115	K0941.41	22828
F3218.2	20276.9	K0807	33060	K0883.7	23124	K0942	22832
F3218.25	20276.8	K0808.5	33064	K0883.75	23116	K0943	22836
F3218.5	20276.5	K0813.2	27467	K0883.8	23112	K0943.2	22840
F3219.2	20276.3	K0819	33106	K0883.95	23101.7	K0943.4	22844
F3219.3	20276.2	K0820	33096	K0884	23104	K0945	22848
F3219.5	20276.1	K0820.4	33100	K0884.2	23140	K0953	22706
F3220	20276	K0820.41	33104	K0884.5	23142	K0954	22708
F3224	20275	K0821	33120	K0884.7	23128	K0956	22709
F3225	20274	K0821.1	33124	K0885	23102.4	K0957	22710
F3228	20272.9	K0821.4	33108	K0885.2	23102.6	K0957.5	22711
F3229	20272.8	K0821.41	33112	K0885.5	23102	K0958	22712
F3230	20273	K0821.5	33107	K0885.51	23102.2	K0973	22744
F3232	20216	K0822	33080	K0893	23108	K0973.1	22748
F3233	20272.5	K0822.1	33084	K0895	23101	K0975	22726
F3234	20272	K0822.4	33088	K0895.4	23101.5	K0976	22728
F3235	20270	K0822.41	33092	K0897	23100	K0980	22724
F3236	20268	K0824	23080	K0898	23099	K0980.4	22722
F3267	20265.1	K0838	23204	K0900	23098	K0980.5	22722.2
F3268	20265	K0838.5	23206	K0904	23096	K0981	22720
F3269	20265.5	K0838.7	23209.5	K0906	23092	K0981.5	22716
F3282	20266	K0839.4	23208	K0910	23088	K0981.9	22926
F3296	20224	K0842	23192	K0911	23086	K0982	22924

CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

Inter.	— U.S.	Inter.	— U.S.	Inter.	— U.S.	Inter.	— U.S.
K0983	22916	K1040	23388	K1072.85	23418	K1152	23591.5
K0984	22908	K1042	23376	K1072.86	23418.1	K1153	23591
K0985	22912	K1043	23380	K1072.9	23422	K1157	23608
K0986	22914	K1043.1	23367	K1073.2	23423.2	K1157.5	23612
K0988	22904	K1043.105	23369	K1073.21	23423.4	K1158	23616
K0990	22896	K1044	23384	K1073.5	23428	K1158.1	23620
K0991	22884	K1045	23382	K1076	23436	K1158.2	23624
K0991.3	22878	K1045.5	23383	K1078	23396	K1158.51	23625.4
K0992	22876	K1045.7	23383.5	K1079	23400	K1158.55	23625
K0993	22872	K1050	23336	K1084	23460	K1158.59	23625.2
K0994	22880	K1050.05	23335	K1086	23468	K1158.85	23625.8
K0996	22868	K1050.1	23333	K1090	23472	K1159	23626
K0998	22864	K1050.15	23333.4	K1091.1	23474	K1160	23627
K1000	22856	K1050.2	23332	K1091.11	23474.1	K1168	23628
K1001	22860	K1050.3	23333.5	K1091.12	23475	K1170	23668
K1001.5	22862	K1050.5	23334	K1092	23476	K1174	23632
K1002	22968	K1051	23340	K1092.5	23480	K1178	23656
K1003	22969	K1051.1	23342	K1092.51	23484	K1183.1	23648
K1003.1	22969.1	K1051.7	23338	K1093	23488	K1197	23670
K1004	22956	K1052	23344	K1095	23492	K1198	23672
K1005	22952	K1052.5	23346	K1099	23500	K1200	23676
K1005.4	22957	K1052.6	23346.7	K1101	23502	K1204	23684
K1005.7	22958	K1052.7	23346.5	K1102	23520	K1210	23688
K1006	22960	K1053	23348	K1105	23504	K1211	23689
K1006.5	22964	K1053.2	23352	K1106	23508	K1212	23692
K1007	22948	K1053.33	23355.1	K1108	23512	K1212.2	23696
K1008	22946	K1053.35	23355.3	K1110	23517	K1213	23700
K1008.1	22946.5	K1053.6	23356	K1112	23516	K1214	23704
K1009	22940	K1053.7	23358	K1122	23532	K1218	23709
K1010	22944	K1053.72	23358.5	K1124	23524	K1220	23708
K1010.5	22936	K1053.74	23358.6	K1126	23528	K1222	23710
K1010.7	22934	K1053.9	23359	K1128	23539	K1223	23712
K1011	22928	K1053.91	23359.5	K1130	23542	K1224	23773
K1012	22932	K1054	23360	K1131	23544	K1225	23714
K1012.5	22933	K1054.5	23361	K1132	23560	K1225.5	23715
K1013	22973	K1055	23362	K1133	23552	K1226	23716
K1020	22972	K1056	23363	K1133.1	23556	K1228	23718
K1020.5	22972.2	K1056.5	23363.5	K1133.3	23557	K1230	23720
K1020.7	22972.25	K1056.6	23363.9	K1134	23558	K1232	23724
K1021	22974	K1056.7	23363.6	K1135	23559	K1236	23728
K1021.5	22974.5	K1056.8	23363.7	K1136	23559.1	K1236.1	23732
K1021.6	22972.3	K1056.9	23363.8	K1138	23584	K1238	23736
K1021.8	22972.5	K1058	23364	K1139	23580	K1238.1	23740
K1022	22980	K1060	23368	K1140	23568	K1238.5	23742
K1024	22976	K1060.3	23366	K1140.2	23568.5	K1240	23744
K1024.05	22976.5	K1060.5	23372	K1140.3	23571.5	K1241	23746
K1024.1	22975.5	K1061	23370	K1140.4	23571	K1242	23748
K1024.2	22975	K1062	23404	K1140.5	23570	K1243	23750
K1024.5	22977	K1063	23405	K1141	23569	K1243.5	23751
K1024.7	22977.5	K1064	23406	K1144	23572	K1244	23752
K1025	22978	K1065	23407	K1144.1	23572.5	K1244.5	23754
K1028	23000	K1066	23407.5	K1144.2	23572.8	K1244.9	23762
K1028.7	23002	K1066.2	23407.7	K1144.3	23573	K1245	23756
K1028.8	22998	K1066.4	23407.8	K1144.35	23573.1	K1246	23760
K1030	22984	K1068	23420	K1144.48	23573.3	K1246.3	23771
K1031	25055	K1068.5	23416	K1144.6	23573.5	K1246.5	23768
K1032	22988	K1069	23408	K1144.65	23573.53	K1247	23764
K1032.5	22990	K1069.4	23412	K1144.68	23573.57	K1248.5	23770
K1033	25056	K1070	23416.1	K1144.8	23573.6	K1249	23774
K1033.5	25054	K1070.1	23416.4	K1145	23574	K1250	23776
K1033.6	25053	K1070.2	23416.5	K1145.5	23586	K1250.1	23780
K1033.8	25051	K1070.3	23416.2	K1149	23590	K1256	23784
K1034	25052	K1070.4	23416.3	K1150	23588	K1257	23788
K1036	25048	K1072.7	23417	K1151	23589	K1257.5	23791
K1038	23392	K1072.8	23417.1	K1151.1	23589.4	K1258	23792

CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

Inter.	— U.S.	Inter.	— U.S.	Inter.	— U.S.	Inter.	— U.S.
K1258.1	23792.5	K1297	25568	K1327.3	25664.5	K1373	25718
K1261	23806	K1298	25560	K1327.5	25662.5	K1373.5	25718.5
K1261.5	23821	K1298.3	25565	K1327.7	25664	K1374	25719
K1262	23821.2	K1298.35	25565.5	K1327.8	25665	K1376	25720
K1262.5	23821.3	K1298.4	25564	K1328	25663	K1376.5	25721
K1262.8	23821.5	K1299	25570	K1328.5	25666	K1378	25722
K1263	23821.61	K1299.3	25571.5	K1328.7	25668	K1379	25724
K1263.1	23821.62	K1299.5	25569	K1329	25628.5	K1380	25732
K1263.9	23821.6	K1299.56	25572.7	K1329.5	25629	K1380.2	25734
K1264	23821.7	K1299.57	25572.8	K1330	25629.2	K1380.3	25728
K1264.5	23821.9	K1299.571	25572.81	K1330.2	25629.4	K1382	25736
K1265	23822	K1300	25572	K1330.4	25629.7	K1382.8	25738
K1267	23823	K1300.1	25573.5	K1331.5	25630	K1383	25740
K1267.8	23823.8	K1300.2	25573	K1332	25631	K1384	25741
K1268	23824	K1300.3	25573.2	K1334	25639.5	K1384.5	25741.2
K1270	23852	K1300.35	25573.4	K1334.5	25639	K1400	25068.7
K1270.1	23828	K1300.4	25573.3	K1335	25639.3	K1402	25068
K1270.11	23832	K1301	25576	K1337	25632	K1402.5	25068.5
K1272	23836	K1303	25580	K1338	25638	K1405.5	25058
K1272.1	23840	K1304	25584	K1339	25642	K1406	25060
K1274	23844	K1304.4	25602.5	K1339.5	25643	K1407	25064
K1274.1	23848	K1304.6	25602.7	K1340	25640	K1407.2	25064.2
K1274.6	23856	K1305	25574	K1340.5	25644	K1407.3	25064.3
K1274.61	23860	K1306	25574.4	K1341	25648	K1407.5	25064.1
K1275.3	23864	K1307.3	25604	K1341.6	25650	K1407.7	25064.4
K1275.4	23868	K1307.5	25605	K1342	25652	K1408	25065
K1276	23822.6	K1308.1	25603	K1342.5	25651.7	K1408.1	25066
K1276.2	23822.4	K1308.4	25602	K1343	25651	K1408.3	25067
K1276.5	23822.2	K1308.5	25606	K1343.5	25651.5	K1409	25066.2
K1277	23870	K1309	25588	K1343.7	25651.6	K1409.1	25066.4
K1277.5	23870.5	K1309.5	25610	K1344	25712	K1410	25050
K1278	23869.5	K1310	25608	K1344.5	25712.5	K1410.3	25049
K1278.2	23869	K1310.2	25596	K1345	25711.7	K1411	25044
K1279	23871	K1310.4	25594	K1346	25714	K1411.2	25040
K1280	23871.5	K1310.6	25593	K1347	25710	K1411.22	25042
K1282	23804	K1310.7	25613	K1347.5	25711	K1411.23	25042.5
K1282.5	23775	K1310.8	25614	K1348	25711.5	K1411.24	25043
K1283	25544	K1311	25616	K1350	25672	K1411.25	25046
K1283.5	25543	K1311.2	25617	K1352	25676	K1411.3	25047
K1283.7	25545	K1311.5	25618	K1352.5	25676.2	K1411.31	25047.1
K1284	25542	K1312	25620	K1353	25677	K1411.4	25036
K1284.2	25541	K1312.1	25624	K1354	25678	K1411.6	25032
K1285	25540	K1314	25628	K1356	25680	K1411.72	25028.5
K1286	25538	K1315	25626	K1358	25681	K1411.75	25029
K1287	25532	K1315.5	25628.3	K1360	25684	K1411.8	25030
K1289	25536	K1317	25653.5	K1360.5	25686	K1411.85	25030.1
K1289.1	25536.1	K1318	25653	K1362	25688	K1412.5	25026
K1290	25528	K1318.7	25653.1	K1365	25700	K1412.51	25026.1
K1291	25524	K1319	25658	K1365.5	25682	K1413.45	24998
K1291.2	25526	K1319.2	25658.1	K1365.7	25702	K1413.7	25000
K1291.21	25526.1	K1319.4	25658.2	K1365.8	25703	K1413.71	25004
K1291.25	25525.2	K1320.2	25660	K1366	25704	K1416	25012
K1291.27	25525.1	K1321	25656	K1366.2	25705	K1417	25014
K1291.29	25525	K1321.5	25653.2	K1366.4	25705.5	K1418	25016
K1291.3	25521	K1322	25578	K1368	25708	K1419	25018
K1291.4	25520	K1323	25584.5	K1368.2	25709	K1420	24989
K1291.6	25522	K1324	25585	K1368.3	25709.5	K1422	24988
K1292	25546	K1324.5	25586	K1369	25708.5	K1422.08	24987.75
K1294	25548	K1325	25416.5	K1369.5	25709.7	K1422.1	24987.8
K1294.5	25551	K1325.3	25416.6	K1369.6	25709.8	K1422.2	24987.9
K1294.8	25555.5	K1325.5	25416.7	K1371	25717	K1422.3	24987.95
K1294.9	25555	K1326	25661.3	K1371.1	25717.1	K1424	23592
K1295	25554	K1327	25662	K1372	25716	K1424.5	23593
K1296	25552	K1327.1	25662.1	K1372.4	25716.5	K1426	23604
K1296.7	25571	K1327.2	25662.2	K1372.5	25716.6	K1426.5	24978

CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

Inter.	— U.S.	Inter.	— U.S.	Inter.	— U.S.	Inter.	— U.S.
K1427.4	24974	K1462.39	24828	K1540.9	25470.5	K1559.75	25285
K1427.8	24948.5	K1462.4	24836	K1540.95	25471	K1559.8	25279
K1428	24987	K1462.41	24832	K1541	25472	K1559.9	25289
K1430	24968	K1462.6	24852	K1541.1	25472.5	K1559.95	25278
K1431	24966	K1462.61	24856	K1541.3	25473	K1559.97	25278.5
K1432	24964	K1462.8	24860	K1541.6	25386	K1560	25292
K1433	24963.5	K1462.81	24864	K1542	25388	K1560.05	25296
K1434	24972	K1463	24876	K1544	25390	K1560.2	25300
K1435	24973	K1463.1	24880	K1545	25404	K1560.3	25290
K1435.2	24963.4	K1464	24868	K1545.6	25400	K1560.31	25290.2
K1435.3	24963.2	K1464.1	24872	K1547.5	25406	K1562	25308
K1435.4	24963	K1468.05	24858	K1547.9	25360	K1562.93	25274.6
K1435.5	24961.2	K1468.25	24859	K1548	25356	K1563	25264
K1435.6	24962	K1468.46	24881	K1548.3	25364	K1563.2	25266
K1435.7	24961	K1468.5	24882	K1548.5	25368	K1563.5	25268
K1436	24960	K1476	25508	K1548.6	25370	K1564	25272
K1438	24952	K1478	25510	K1548.65	25370.5	K1564.2	25273
K1438.1	24956	K1480	25512	K1548.7	25372	K1564.7	25274
K1438.2	24957.5	K1482.5	25516	K1548.9	25373.5	K1564.8	25274.2
K1438.22	24957	K1484	25504	K1548.91	25373.6	K1565	25274.3
K1438.3	24951	K1485	25503.8	K1549	25373	K1565.5	25249
K1439	24950	K1486.4	24946	K1549.05	25318.8	K1566	25252
K1439.4	24950.5	K1487	24942	K1549.1	25318.6	K1566.3	25256, 25376
K1439.6	24950.6	K1488.5	24944	K1549.15	25318.4	K1566.4	25257
K1442	24976	K1489	25503.7	K1549.2	25319	K1566.6	25275
K1442.1	24970	K1489.1	25503.65	K1549.25	25319.05	K1566.7	25275.5
K1442.2	24969	K1489.2	25503.6	K1549.3	25319.1	K1566.8	25275.6
K1442.5	24980	K1490	25500	K1549.35	25319.3	K1567.5	25275.7
K1442.7	24982	K1490.1	25503	K1549.4	25317.2	K1567.6	25275.58
K1443.5	24986	K1490.15	25503.5	K1549.7	25317.6	K1567.7	25275.8
K1444	24948	K1491	25502	K1550	25318	K1567.8	25275.9
K1444.2	24987.5	K1493	25496	K1550.5	25317	K1568	25276
K1444.3	24987.3	K1494	25494	K1551	25320	K1568.4	25378
K1444.5	24949	K1496	25492	K1551.2	25324	K1568.5	25379
K1445	24947	K1498	25488	K1551.5	25328	K1569	25380
K1446	24946.5	K1500	25485	K1551.6	25329	K1569.5	25384
K1446.5	24941	K1506	25476	K1551.8	25330	K1571	25260.5
K1447	24940	K1506.5	25474	K1551.9	25331	K1571.5	25260.2
K1449	24938	K1506.6	25474.5	K1552	25332	K1572	25260
K1450	24939	K1507.5	25482	K1552.4	25336	K1572.4	25258
K1452	24936	K1508	25468	K1552.6	25340	K1572.5	25248.5
K1454	24932	K1508.5	25461	K1553	25352	K1572.7	25261
K1455	24928	K1509	25425	K1553.2	25352.5	K1574	25248
K1456	24924	K1509.5	25464	K1553.5	25374	K1575	25244
K1457	24929	K1510	25460	K1554	25353	K1576	25240
K1457.5	24926	K1510.5	25458	K1554.1	25354	K1577	25238.5
K1458	24923.7	K1511	25436	K1554.2	25353.5	K1578	25239
K1459	24920	K1513	25444	K1554.4	25342	K1580	25262
K1459.2	24888	K1514	25448	K1555	25344	K1582	25771
K1459.21	24892	K1515	25452	K1555.8	25346	K1587.5	25769
K1459.4	24900	K1517	25432	K1558	25348	K1588	25770
K1459.41	24904	K1517.5	25424.5	K1558.2	25348.5	K1591	25766
K1459.42	24896	K1518	25424	K1558.3	25349	K1592	25742
K1459.6	24908	K1518.5	25421	K1558.32	25349.5	K1594	25748
K1459.61	24912	K1519	25422	K1558.33	25351	K1596	25744
K1459.73	24923	K1522	25420	K1558.34	25350.4	K1597	25746
K1459.76	24922	K1523	25423	K1558.35	25350	K1598	25810
K1459.8	24918	K1524	25416	K1558.4	25311	K1599	25750
K1459.94	24847	K1528	25414	K1558.5	25312	K1599.5	25751
K1459.95	24848	K1532	25412	K1558.6	25316	K1600	25752
K1460.6	24844.5	K1532.5	25411	K1558.7	25310	K1600.5	25754
K1460.7	24845	K1536	25408	K1559	25280	K1601	25756
K1462	24846	K1537	25417	K1559.5	25284	K1601.1	25755
K1462.2	24840	K1537.5	25418	K1559.7	25288	K1601.15	25754.5
K1462.21	24844	K1540	25470	K1559.74	25286	K1601.3	25756.5

CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

Inter.	— U.S.	Inter.	— U.S.	Inter.	— U.S.	Inter.	— U.S.
K1601.5	25760	K3340.68	25907.2	K3392.8	26058	K3426	26228
K1603	25764	K3340.7	25907	K3393	26060	K3428	26232
K1603.5	25948.7	K3340.8	25907.4	K3393.1	26064	K3429	26244
K1605	25796	K3340.85	25907.6	K3393.3	26068	K3429.4	26252
K1605.5	25794	K3340.87	25907.62	K3393.31	26072	K3429.6	26248
K1607	25797	K3340.9	25907.65	K3393.5	26076	K3429.8	26256
K1608	25800	K3340.94	25907.25	K3393.6	26088	K3430	26236
K1610.5	25798	K3340.95	25907.3	K3393.7	26108	K3430.1	26240
K1610.7	25802	K3341	25850	K3394.5	26084	K3432	26260
K1611.8	25803	K3342.4	25852	K3395	26096	K3436	26416
K1612	25803.5	K3342.41	25856	K3395.1	26080	K3437	26420
K1612.5	25803.7	K3342.6	25860	K3395.15	26081	K3438	26264
K1613	25806	K3342.61	25864	K3395.2	26082	K3440	26288
K1616	25804	K3343	25908	K3395.3	26106	K3444	26292
K1619	25773	K3343.5	25914	K3395.35	26106.5	K3446	26268
K1620	25772	K3344.5	25918	K3395.4	26107	K3448	26296
K1621	25776	K3344.7	25917.5	K3395.5	26107.5	K3449	26272
K1621.4	25780	K3345	25917	K3395.55	26107.7	K3450	26276
K1622	25782	K3345.3	25916	K3395.59	26101	K3450.3	26280
K1622.5	25783	K3345.4	25910	K3395.6	26100	K3450.44	26282
K1623	25784	K3345.5	25912	K3395.8	26104	K3450.46	26283
K1623.5	25788	K3346	25920	K3395.9	26104.5	K3450.5	26284
K1624.5	25791	K3347	25924	K3396	26105	K3451	26312
K1624.7	25791.4	K3347.5	25923	K3396.2	26105.5	K3451.23	26308
K1625	25808	K3347.6	25922	K3396.6	26112	K3451.24	26304
K1626	25812	K3347.7	25925	K3396.8	26092	K3451.4	26336
K1626.3	25820	K3348.4	25940	K3396.9	26115	K3452	26332
K1626.5	25816	K3348.7	25938	K3397	26116	K3453	26328
K1628	25824	K3349	25928	K3397.5	26117	K3454	26340
K1628.5	25828	K3350	25936	K3397.6	26118	K3455	26324
K1628.8	25830	K3352	25930	K3397.8	26119	K3456	26316
K1629	25832	K3354	25932	K3397.95	26119.5	K3456.5	26320
K1629.3	25833	K3356	25926	K3398	26120	K3456.7	26344
K1629.36	25834	K3357.5	25948.5	K3398.8	26123	K3457	26348
K1629.6	25836	K3358	25944	K3398.9	26123.5	K3458	26352
K1629.8	25837	K3360	25948	K3399	26124	K3458.5	26356
K1630	25840	K3361	25949	K3399.1	26128	K3459	26360
K1630.4	25833.5	K3362	26020	K3399.8	26129	K3459.1	26364
K1630.6	25844	K3362.5	26021	K3400	26130	K3460.2	26381
K1631	25848	K3363	26022	K3400.15	26132	K3460.205	26381.2
K1632	25872	K3366	25968	K3400.18	26134	K3460.21	26381.4
K1632.4	25884	K3367.9	25980	K3400.2	26136	K3460.3	26382
K1632.6	25886	K3368	25972	K3400.4	26140	K3461	26368
K1632.7	25886.3	K3368.1	25976	K3400.6	26142	K3461.2	26372
K1632.8	25886.5	K3368.5	25984	K3400.7	26142.1	K3463.4	26388
K1633	25876	K3372	25988	K3401	26144	K3463.8	26392
K1923.71	24148	K3373.3	25956	K3401.4	26152	K3464	26384
K1954.4	24450	K3374	25964	K3401.6	26156	K3464.4	26396
K3336	25887	K3376	26024	K3401.8	26160	K3465	26400
K3338	25888	K3376.5	26028	K3402	26172	K3469	26408
K3338.4	25897.5	K3379	25992	K3403	26164	K3469.7	26404
K3338.5	25898	K3381	26000	K3403.1	26168	K3470	26411
K3338.7	25899	K3381.1	26004	K3403.2	26170	K6160.4	6054
K3339	25892	K3382	26008	K3403.4	26169	K7605.5	29146
K3339.1	25896	K3384	26012	K3403.41	26169.5	M4100	18176
K3339.2	25890	K3386	26016	K3404	26176	M4104	18160
K3339.6	25900	K3389	26032	K3405.4	26184	M4105	18164
K3339.8	25902	K3390	26040	K3406	26188	M4106	18166
K3340	25904	K3390.1	26048	K3408	26192	M4107	18168
K3340.5	25906	K3390.4	26044	K3415	26212	M4112	18156
K3340.51	25906.1	K3391	26036	K3422	26213.1	M4112.5	18149
K3340.52	25906.3	K3391.5	26053	K3422.5	26214	M4113	18152
K3340.55	25906.7	K3392	26052	K3423	26216	M4116	18112
K3340.65	25907.1	K3392.7	26056	K3424	26220	M4116.5	18118.5
K3340.67	25907.15	K3392.75	26055	K3424.1	26224	M4117	18119

CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

Inter.	— U.S.	Inter.	— U.S.	Inter.	— U.S.	Inter.	— U.S.
M4117.5	18118	M4158.3	17936	M4170.4	18062	M4187.4	17825.9
M4118	18116	M4158.4	17936.3	M4170.43	17957	M4188	17816
M4119	18120	M4158.47	17936.5	M4170.44	17957.1	M4188.3	17817
M4120	18124	M4158.57	17897.5	M4170.45	17957.5	M4188.5	17818
M4122	18128	M4158.59	17898	M4170.5	17957.4	M4188.7	17817.2
M4126	18132	M4158.598	17897	M4170.53	17957.6	M4189	17824
M4128	18136	M4158.601	17899	M4170.56	17957.7	M4189.3	17825.5
M4132	18148	M4158.602	17900.5	M4170.6	17957.2	M4189.31	17825.7
M4135.8	18103	M4158.641	17902.1	M4170.64	17961.1	M4189.5	17820
M4135.85	18103.1	M4158.645	17903	M4170.65	17961.15	M4189.55	17821
M4136	18104	M4158.65	17905	M4170.66	17961.2	M4189.6	17825
M4137.2	18087	M4158.662	17906	M4170.9	17962.7	M4189.63	17831
M4137.4	18088	M4158.664	17906.1	M4170.92	17962	M4189.7	17828
M4138	18093	M4158.7	17910.6	M4170.94	17962.5	M4189.735	17831.5
M4140	18096	M4158.71	17910.7	M4171	17963	M4189.74	17829
M4145	18080	M4158.73	17911	M4171.2	17963.5	M4189.8	17830
M4145.5	18083	M4158.74	17911.1	M4171.5	17964.1	M4189.9	17803
M4146	18076	M4158.77	17911.4	M4172.1	17964.5	M4190	17804
M4146.5	18077	M4158.78	17911.45	M4172.15	17965	M4190.5	17808
M4146.58	18035	M4158.79	17911.5	M4172.153	17962.95	M4190.6	17806
M4148	18040	M4158.795	17911.6	M4172.155	17962.96	M4191	17760
M4149	18048	M4158.8	17912	M4172.16	17962.8	M4192	17756
M4149.1	18051	M4158.81	17911.9	M4172.18	17962.9	M4193.3	17757
M4149.2	18049	M4158.83	17911.7	M4173.3	17965.5	M4193.38	17758.5
M4149.3	17895	M4158.86	17912.5	M4173.35	17966	M4193.6	17761
M4149.4	18050	M4158.865	17912.65	M4173.36	17966.5	M4193.63	17762
M4150	17920	M4158.87	17912.6	M4173.4	17967	M4193.8	17775
M4151	17856.5	M4158.9	17912.3	M4173.5	17967.5	M4194	17774.5
M4152	17856	M4158.91	17912.4	M4173.52	17968	M4195	17774
M4153	17854	M4158.92	17912.1	M4173.6	17968.5	M4196	17772
M4153.3	17853.5	M4158.93	17912.2	M4173.8	17969	M4196.5	17776
M4154	17840	M4158.95	17913	M4174	17971.5	M4197	17780
M4154.2	17841	M4158.96	17912.8	M4174.5	17970	M4198	17788
M4154.22	17849	M4158.963	17912.7	M4175	17969.5	M4198.5	17789
M4154.25	17840.8	M4158.965	17913.1	M4175.2	17970.5	M4198.7	17789.5
M4154.3	17850	M4158.97	17913.5	M4175.4	17971	M4199	17792
M4154.4	17851	M4158.975	17914	M4176	17972	M4202	17796
M4154.5	17852	M4159	17928	M4176.3	17973	M4204	17800
M4154.69	17853	M4160	17926	M4176.5	17976	M4205.5	17751
M4154.7	17860	M4161	17937	M4176.7	17980	M4206	17748
M4155	17892	M4162	17938.2	M4177	17983	M4206.1	17749
M4155.1	17858	M4162.62	17938	M4178	17984	M4206.15	17749.5
M4155.4	17924	M4162.621	17938.05	M4178.4	17988	M4206.3	17752
M4155.6	18044	M4162.72	17938.3	M4178.5	17989	M4206.32	17753
M4156	17864	M4162.75	17938.35	M4178.6	17990	M4206.33	17753.1
M4156.3	17868	M4162.76	17938.4	M4179	17996	M4206.35	17754
M4156.33	17862	M4163	17934	M4179.2	17992	M4206.4	17812
M4156.35	17863	M4163.5	18063.5	M4180	18033	M4206.6	17744
M4156.38	17863.5	M4163.7	18063.7	M4184	17844	M4206.7	17727
M4156.4	17864.6	M4164	17944	M4184.45	17827.15	M4206.83	17733
M4156.45	17864.5	M4164.25	17949	M4184.5	17839.8	M4206.85	17746.5
M4156.48	17893.5	M4164.3	17953	M4185	17848	M4206.89	17728
M4156.5	17894	M4164.5	17956.5	M4185.08	17827	M4206.9	17729
M4156.6	17865	M4165	17954	M4185.1	17827.5	M4206.95	17727.5
M4156.65	17865.1	M4166	17956	M4185.105	17827.1	M4206.955	17727.6
M4156.66	17865.8	M4167	17960	M4185.12	17839	M4207	17726
M4156.661	17865.9	M4167.3	17961	M4185.15	17839.2	M4207.2	17726.5
M4156.7	17866	M4167.4	17960.1	M4185.4	17839.5	M4207.3	17731
M4156.75	17866.1	M4168	18056	M4185.41	17839.6	M4207.4	17732
M4156.9	17867	M4168.5	18052	M4185.6	17827.7	M4207.5	17736
M4156.912	17866.2	M4169	18064	M4185.8	17827.8	M4207.6	17738
M4156.97	17867.1	M4169.5	18068	M4186	17836	M4207.65	17737
M4157	17896	M4169.7	18069	M4186.2	17838	M4208	17720
M4158	17932	M4170	18060	M4187	17832	M4208.2	17718
M4158.2	17940	M4170.2	18063	M4187.3	17826	M4208.21	17718.5

CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

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M4211	17644
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M4211.5	17666
M4212	17672
M4212.5	17668
M4212.7	17669
M4212.8	17670
M4213	17652
M4213.5	17660
M4213.8	17661
M4214	17664
M4214.3	17664.1
M4214.5	17665
M4214.7	17665.5
M4215	17620
M4215.5	17632
M4215.7	17633
M4216	17636
M4216.2	17641
M4216.5	17640
M4216.8	17643.5
M4216.9	17621
M4217	17624
M4217.2	17622
M4217.38	17623
M4217.47	17627.5
M4217.471	17627.51
M4217.48	17627.6
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M4217.6	17626
M4217.7	17625
M4217.74	17626.7
M4217.8	17627.7
M4218	17628
M4218.1	17628.5
M4218.2	17629
M4218.25	17629.5
M4218.3	17630
M4218.35	17630.5
M4219	17617
M4219.5	17615
M4219.8	17327
M4220	17616
M4220.5	17616.5
M4222	17696
M4222.1	17679
M4222.2	17697
M4222.5	17678
M4223	17684
M4223.3	17682
M4223.4	17683
M4223.5	17688
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M4223.9	17695
M4224	17680
M4225	17676
M4225.5	17692
M4226	17700
M4227	17708
M4227.2	17709
M4227.4	17710
M4228	17704
M4228.5	17588
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M4228.8	17646
M4229	17648
M4229.1	17649
M4229.5	17645
M4229.8	17644.5
M4230	17643
M4230.2	17642.5
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M4231	17656
M4231.5	17658
M4232	17584
M4232.6	17582
M4233	17583
M4234	17592
M4234.6	17593
M4234.8	17594
M4235	17586, 17614
M4236	17596
M4237	17612
M4238	17608
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M4242	17604
M4242.6	17549
M4243	17548
M4246	17556
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M4246.505	17546
M4246.51	17559
M4246.52	17559.5
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M4246.65	17581.5
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M4247	17560
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M4254.9	17489
M4255	17496
M4255.15	17496.5
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M4255.35	17498
M4255.5	17502
M4256	17500
M4256.2	17500.5
M4256.3	17500.6
M4256.5	17501
M4257	17508
M4258	17504
M4259	17505
M4259.5	17501.2
M4260	17506
M4262	17516
M4263	17512
M4263.5	17518
M4263.7	17519
M4263.9	17519.5
M4263.92	17519.6
M4264	17520
M4265.2	17528
M4265.3	17528.5
M4265.4	17528.6
M4265.43	17528.62
M4265.45	17528.65
M4265.5	17528.7
M4265.55	17528.8
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M4265.65	17374
M4265.7	17393
M4265.8	17393.5
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M4266	17376
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M4267	17381
M4267.5	17382
M4269	17396
M4269.25	17396.3
M4269.26	17396.4
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M4269.29	17396.9
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M4269.35	17396.91
M4269.4	17401
M4269.5	17400
M4269.6	17401.5
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M4269.9	17402.1
M4270	17404
M4270.1	17407
M4270.15	17407.5
M4270.2	17408
M4271	17412
M4271.5	17414
M4272	17420
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M4272.73	17453
M4272.75	17454
M4272.78	17454.5
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M4272.9	17455
M4272.95	17455.5
M4272.97	17457
M4273	17468
M4274.505	17467
M4274.52	17472
M4274.55	17476.1
M4274.58	17477
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M4274.7	17368
M4274.85	17366.5
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M4277.5	17356
M4277.8	17344
M4277.9	17364
M4278	17532
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M4278.16	17320.5
M4278.17	17321
M4278.2	17530
M4278.3	17529
M4278.4	17544
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M4279.3	17540
M4279.35	17534
M4279.36	17533.5
M4279.37	17531.5
M4279.4	17320
M4279.5	17324
M4279.6	17301.5, 17325
M4279.7	17326
M4280	17332
M4280.5	17328
M4280.7	17321.5
M4280.75	17305.1
M4280.8	17305
M4281	17304
M4281.2	17312
M4281.4	17308
M4281.5	17310
M4281.55	17302.5
M4281.58	17302.1
M4281.6	17302
M4281.65	17303
M4281.7	17301
M4281.8	17306
M4281.9	17307
M4282	17340
M4283	17341
M4283.4	17336
M4283.6	17338
M4283.7	17309

CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

Inter.	— U.S.	Inter.	— U.S.	Inter.	— U.S.	Inter.	— U.S.
M4283.8	17398	M4305.25	17221.2	M4310.91	17192	M4322.72	16894
M4284	17316	M4305.3	17221.1	M4310.94	17196	M4322.75	16893
M4285.1	17316.5	M4305.36	17219.1	M4310.95	17200	M4322.8	16888
M4286	17244	M4305.38	17219.2	M4310.96	17200.2	M4322.82	16886.5
M4286.25	17249	M4305.4	17219	M4310.97	17200.5	M4322.85	16886
M4286.5	17251	M4305.43	17218.2	M4311	17056	M4322.87	16887
M4287	17252	M4305.44	17218.3	M4311.4	17060	M4322.875	16887.1
M4290.2	17250	M4305.45	17218.1	M4311.6	17048	M4322.9	16884
M4292	17248	M4305.5	17218	M4311.65	17050	M4322.95	17016
M4293	17246	M4305.6	17222	M4311.7	17051	M4323	16952
M4293.5	17243	M4306	17216	M4311.73	17058.1	M4323.055	16953
M4294	17260	M4307	17224	M4311.75	17051.5	M4323.1	16942
M4294.3	17260.5	M4307.05	17226	M4311.78	17047	M4323.6	16920
M4294.5	17240	M4307.1	17154	M4311.8	17046	M4323.8	16924
M4294.8	17366	M4307.25	17153	M4314	17044	M4324	16892
M4295	17236	M4307.27	17073.1	M4315	17040	M4325	16908
M4295.2	17236.1	M4307.28	17073	M4317	16972	M4325.1	16882
M4295.3	17234	M4307.3	17068	M4317.5	16974	M4325.4	16911
M4295.4	17234.1	M4307.4	17069	M4317.7	16975	M4325.5	16915.7
M4295.5	17290, 17291.3	M4307.45	17069.1	M4317.9	16974.6	M4325.55	16915.5
M4295.7	17291	M4307.5	17072	M4318	16976	M4325.7	16914
M4295.82	17291.35	M4307.7	17074	M4318.2	16974.2	M4325.8	16915
M4296	17292	M4307.75	17074.5	M4318.4	16974.4	M4325.85	16918.5
M4296.5	17293	M4307.8	17075	M4318.5	16977	M4325.9	16918
M4296.7	17292.5	M4308	17064	M4319	17000	M4326	16912
M4296.8	17233	M4308.05	17066	M4319.2	16984, 16999	M4326.3	16929
M4297	17228	M4308.15	17063	M4319.5	16978	M4326.5	16916
M4297.2	17229.2	M4308.2	17080	M4320.2	16986	M4326.55	16919
M4297.25	17229.5	M4308.3	17084	M4320.3	16981	M4327	16928
M4297.3	17229.4	M4308.35	17088	M4320.35	16981.5	M4328	16936
M4297.4	17230	M4308.4	17156	M4320.4	16983.3	M4329	16932
M4297.5	17301.6	M4308.45	17161	M4320.42	16983	M4329.5	16881
M4297.55	17301.55	M4308.5	17160	M4320.45	16968	M4330	16880
M4297.65	17300.8	M4308.55	17165	M4320.6	16988	M4330.1	16880.5
M4297.8	17294	M4308.58	17166	M4320.61	16992	M4330.15	16879.5
M4298.5	17272.5	M4308.6	17212	M4320.8	16995	M4330.2	16879
M4298.55	17230.2	M4308.72	17148	M4321	16964	M4330.3	16879.3
M4298.6	17230.5	M4308.74	17152	M4321.08	16965	M4330.4	17863.2
M4298.65	17230.51	M4308.75	17211	M4321.12	16966	M4330.7	16898
M4298.66	17230.52	M4308.8	17100	M4321.13	17001	M4330.8	16899
M4298.9	17295	M4308.9	17092	M4321.2	17004	M4331	16900
M4299.2	17298	M4308.94	17096	M4321.4	17020	M4331.15	16886.7
M4299.3	17298.1	M4308.97	17100.5	M4321.45	17012	M4331.25	16902
M4299.4	17299	M4308.98	17101	M4321.47	17013	M4331.5	16896
M4299.6	17298.5	M4309	17104	M4321.495	17008.1	M4331.515	16887.5
M4299.61	17299.1	M4309.4	17108	M4321.5	17008	M4331.55	16876.9
M4299.68	17300.5	M4309.8	17120	M4321.52	17008.5	M4331.6	16877
M4299.72	17227	M4310	17116	M4321.55	16962	M4331.7	16876
M4299.75	17273	M4310.2	17112	M4321.58	17010	M4331.75	16875.5
M4299.8	17274	M4310.3	17126	M4321.59	17010.5	M4331.85	16876.5
M4300	17280	M4310.5	17134	M4321.6	17036	M4332	16872
M4300.2	17280.4	M4310.52	17135	M4321.8	16963	M4332.5	16875
M4300.3	17282	M4310.54	17140	M4321.83	16963.5	M4333	16874
M4300.35	17280.5	M4310.57	17136	M4322	17032	M4334	16864
M4300.4	17232	M4310.6	17124	M4322.2	17024	M4334.2	16873
M4300.5	17262	M4310.63	17123	M4322.3	17028	M4334.21	16873.1
M4300.55	17261	M4310.65	17173	M4322.35	17090	M4335	16862
M4300.6	17264	M4310.66	17173.5	M4322.4	16960	M4335.4	16861
M4301	17284	M4310.7	17144	M4322.42	16961	M4335.6	16861.5
M4302	17268	M4310.72	17170	M4322.5	16954	M4336	16860
M4302.5	17231.1	M4310.74	17171	M4322.55	16958	M4337.3	16857
M4303	17231	M4310.82	17200.8	M4322.6	16956	M4337.4	16857.5
M4304	17272	M4310.86	17174	M4322.62	16956.3	M4338	16852
M4305	17220	M4310.88	17174.5	M4322.65	16956.5	M4340	16856
M4305.2	17221	M4310.9	17188	M4322.7	16868	M4340.3	16848

CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

Inter.	— U.S.	Inter.	— U.S.	Inter.	— U.S.	Inter.	— U.S.
M4340.4	16846	M4354.7	16769	M4378.05	16711.94	M4403	16662
M4340.45	16847	M4354.8	16771	M4378.1	16711.89	M4403.3	16661.9
M4340.5	16840	M4354.81	16763	M4378.2	16711.9	M4403.5	16661.7
M4340.6	16844	M4354.82	16763.5	M4379	16704	M4403.8	16661.5
M4340.7	16836	M4354.9	16771.5	M4379.2	16708	M4403.88	16661.4
M4340.75	16838	M4355	16764	M4379.4	16710	M4403.9	16661.3
M4340.8	16824	M4355.1	16765	M4379.45	16710.5	M4404	16656
M4340.85	16823	M4355.4	16760	M4379.48	16710.6	M4404.6	16654
M4340.9	16830	M4355.5	16760.5	M4379.5	16711	M4405	16660
M4340.97	16930	M4355.9	16727.8	M4379.6	16711.3	M4405.5	16661
M4340.973	16929.9	M4356	16728	M4379.65	16711.35	M4406	16652
M4340.974	16821.5	M4356.4	16734	M4379.7	16709	M4408	16643
M4340.975	16931	M4356.5	16735	M4381	16711.85	M4408.5	16642.5
M4340.977	16931.1	M4356.55	16738	M4381.12	16706	M4408.55	16642.6
M4340.978	16820.9	M4356.58	16739	M4381.14	16711.6	M4409	16644
M4340.979	16820.93	M4356.6	16733.1	M4381.16	16711.65	M4410	16648
M4340.98	16821	M4356.7	16733	M4381.18	16711.8	M4410.1	16648.6
M4340.983	16821.03	M4356.8	16732.8	M4381.19	16705	M4410.2	16648.5
M4340.984	16821.2	M4356.9	16732.9	M4381.2	16705.1	M4410.5	16616
M4340.99	16821.1	M4357.6	16749	M4381.3	16690	M4410.52	16614.5
M4341	16828	M4357.8	16749.5	M4381.301	16690.1	M4410.54	16615
M4341.4	16832	M4359	16748.5	M4381.302	16690.2	M4410.6	16614
M4342	16819	M4359.5	16741	M4381.303	16690.3	M4410.65	16615.5
M4342.4	16818	M4360	16748	M4381.304	16690.4	M4410.8	16613
M4342.5	16817.3	M4361	16740.2	M4381.305	16690.5	M4410.9	16613.5
M4342.51	16817.4	M4363	16750	M4381.306	16690.6	M4411	16636
M4342.52	16817.5	M4365	16751	M4381.307	16690.7	M4411.2	16640
M4342.53	16817.2	M4366	16752	M4381.308	16690.8	M4411.4	16626
M4342.54	16817.1	M4368	16756	M4381.36	16691	M4411.41	16627
M4342.7	16822	M4369	16756.5	M4381.38	16691.5	M4412	16624
M4343	16808	M4369.45	16757	M4381.4	16692	M4412.5	16632
M4344	16796	M4369.5	16759.3	M4381.5	16696	M4412.6	16628
M4345	16792	M4369.55	16759.4	M4381.6	16696.1	M4412.7	16634
M4345.3	16805	M4374	16732	M4381.8	16699.5	M4412.72	16633
M4346	16804	M4374.05	16727.6	M4382	16700	M4412.8	16642
M4347	16800	M4374.051	16727.7	M4382.5	16698	M4413	16620.5
M4347.5	16802	M4374.1	16727.5	M4382.7	16699	M4413.2	16620
M4347.7	16803	M4374.123	16726.5	M4383	16702	M4413.4	16621
M4348	16816	M4374.2	16727	M4383.2	16702.5	M4413.55	16612.5
M4348.7	16815.9	M4374.3	16727.1	M4385	16688	M4413.58	16612.2
M4348.8	16815	M4374.4	16724.4	M4388	16687	M4413.6	16612
M4348.9	16815.5	M4374.5	16725.2	M4389	16686	M4413.625	16611.9
M4349.2	16813	M4374.6	16725.6	M4390	16684	M4413.63	16611.8
M4349.3	16814	M4374.7	16724.8	M4394	16680	M4413.636	16611.65
M4350.1	16780.4	M4374.8	16725.8	M4394.5	16683	M4413.638	16611.6
M4350.2	16780.5	M4374.81	16725.9	M4395	16682	M4413.65	16611.5
M4350.5	16779.7	M4375.52	16724.22	M4396.5	16680.9	M4413.7	16609
M4350.6	16779.71	M4375.53	16724.21	M4396.6	16681.2	M4413.75	16610
M4350.8	16779.5	M4375.6	16724	M4396.7	16675.5	M4413.8	16611
M4351	16780	M4375.7	16723.5	M4396.8	16675	M4414	16604
M4351.15	16781.5	M4375.71	16723.51	M4397	16674	M4415	16600
M4351.3	16783	M4375.9	16721	M4397.1	16673.6	M4417	16596.5
M4351.4	16782	M4375.95	16722.5	M4397.3	16673.5	M4418	16596
M4351.5	16782.1	M4375.98	16723	M4397.4	16673	M4419	16595
M4351.8	16778	M4376	16720	M4397.5	16673.1	M4420	16588
M4351.9	16829	M4376.3	16719	M4397.7	16672.7	M4420.3	16594
M4352	16776	M4376.4	16718.6	M4397.77	16672.6	M4421	16592
M4352.3	16779	M4376.6	16718.5	M4397.85	16672.3	M4424	16584
M4352.5	16775.7	M4377.1	16718	M4397.86	16672.5	M4424.5	16597
M4353.5	16772	M4377.53	16716.1	M4398.2	16672.1	M4424.6	16598
M4353.7	16775.5	M4377.6	16714	M4399.2	16672.2	M4426	16572
M4353.965	16773	M4377.7	16716.2	M4399.5	16669	M4427	16574
M4354	16768	M4377.9	16713	M4400	16668	M4428.1	16581
M4354.5	16770	M4378	16712	M4401	16665	M4430	16580
M4354.6	16768.5	M4378.03	16711.95	M4402	16664	M4430.04	16576

CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

Inter.	— U.S.	Inter.	— U.S.	Inter.	— U.S.	Inter.	— U.S.
M4430.2	16571	M4452	16440	M4507	16310	M4739.39	13491
M4430.3	16569.7	M4452.5	16444	M4508	16309	M4739.4	13480
M4430.31	16569.9	M4453	16448	M4510	16308	M4739.42	13482
M4430.5	16569	M4455	16432	M4510.4	16306	M4739.47	13476
M4430.8	16569.1	M4455.4	16433	M4510.6	16307	M4739.48	13472
M4430.85	16569.5	M4455.5	16431	M4511.4	16306.1	M4739.5	13464
M4431	16568	M4455.6	16430	M4512	16304	M4739.6	13468
M4431.2	16566	M4456	16428	M4513	16303	M4739.7	13466
M4431.4	16566.2	M4456.2	16429	M4514	16301	M4739.8	13460
M4431.45	16565	M4456.5	16424	M4514.4	16302	M4739.85	13462
M4431.5	16564	M4456.8	16423.1	M4516	16284	M4739.88	13463
M4432	16552	M4456.85	16423	M4520	16296	M4739.9	13408
M4432.6	16556	M4456.9	16421	M4522	16288	M4739.92	13407
M4433	16560	M4456.93	16422	M4524	16292	M4740	13412
M4433.5	16551	M4457	16420	M4526	16300	M4740.3	13420
M4433.6	16551.1	M4458	16404	M4530	16280	M4740.4	13422
M4433.7	16508	M4458.1	16406	M4531	16277	M4740.6	13414
M4433.8	16516	M4458.15	16416	M4532	16278	M4740.85	13380
M4433.9	16518	M4458.18	16418	M4533	16276.5	M4740.87	13372
M4434.2	16504	M4458.2	16414	M4534	16272	M4740.9	13372.2
M4434.3	16502	M4458.3	16408	M4536	16276	M4740.95	13374
M4434.5	16504.5	M4458.4	16409.5	M4540	16252	M4741.3	13388
M4434.7	16506	M4458.45	16410	M4542	16260	M4743	13392
M4434.75	16505	M4458.6	16412	M4543	16262	M4744	13371
M4435	16496	M4458.63	16396.5	M4544	16264	M4744.8	13382
M4436	16488	M4458.64	16397	M4546	16268	M4745	13404
M4437	16492	M4458.7	16376.7	M4547	16269	M4745.2	13368.5
M4437.2	16487	M4459	16380	M4556	16248	M4745.4	13370
M4440	16548	M4459.15	16385	M4558	16232	M4746	13368
M4443	16536	M4459.16	16384	M4568	16228	M4747	13365
M4443.5	16542	M4459.2	16386	M4570	16200	M4748	13364
M4445	16544	M4459.25	16386.1	M4574	16220	M4748.5	13362
M4445.7	16524	M4459.3	16378	M4576	16224	M4749	13360
M4445.8	16528	M4459.4	16379	M4578	16216	M4749.5	13349
M4446.2	16520	M4459.43	16377	M4582	16208	M4750	13352
M4446.4	16541	M4459.45	16376.5	M4584	16212	M4750.2	13354
M4446.5	16484	M4459.5	16388	M4590	16204	M4750.4	13356
M4446.6	16480	M4459.54	16396	M4728	13580	M4750.7	13348
M4446.7	16486	M4459.6	16392	M4728.3	13586	M4750.84	13336
M4446.8	16478	M4459.65	16387	M4728.4	13576	M4752	13316
M4447	16464	M4459.7	16376	M4729	13556	M4752.4	13320
M4447.5	16463	M4459.75	16374	M4730	13560	M4753	13324
M4447.51	16463.5	M4459.9	16369	M4731	13564	M4753.4	13340
M4447.6	16460	M4460	16365	M4732	13536	M4754	13308
M4448	16466	M4460.1	16365.1	M4733	13532	M4754.5	13322
M4448.4	16467	M4461	16364	M4734	13528	M4754.6	13306
M4448.5	16469	M4462	16359	M4734.15	13542	M4754.7	13305
M4449	16456	M4464	16360	M4734.26	13540	M4754.8	13310
M4449.05	16455	M4464.5	16362	M4734.3	13544	M4754.9	13310.5
M4449.06	16455.1	M4465	16358	M4734.4	13548	M4755	13326
M4449.1	16454	M4466	16356	M4734.5	13550	M4757.5	13304.5
M4449.2	16454.1	M4468	16352	M4734.7	13554	M4758	13284
M4449.25	16454.2	M4472	16332	M4735	13568	M4759	13296
M4449.3	16449	M4474	16328	M4736	13524	M4759.2	13300
M4449.35	16450	M4480	16340	M4737	13516	M4759.25	13300.5
M4449.4	16453	M4484	16348	M4737.5	13520	M4759.4	13304
M4449.5	16452	M4484.4	16344	M4737.7	13513	M4760	13302
M4449.6	16451.7	M4485	16326	M4737.8	13512	M4761.4	13292
M4449.65	16451.8	M4487	16325	M4738	13504	M4761.6	13290
M4449.7	16451.6	M4488	16324	M4738.4	13508	M4761.8	13282
M4449.75	16451.65	M4490	16323	M4738.5	13506	M4762.2	13272
M4449.8	16451	M4492	16316	M4738.6	13510	M4762.4	13280
M4449.85	16451.5	M4495	16322	M4739	13500	M4762.9	13268
M4449.9	16435.1	M4506	16312	M4739.2	13492	M4763	13264
M4450	16436	M4506.5	16308.5	M4739.37	13490	M4763.2	13266

CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

Inter.	U.S.
M4763.4	13440
M4763.44	13444
M4763.5	13424
M4763.52	13428
M4763.54	13436
M4763.57	13449
M4763.6	13448
M4763.61	13450
M4763.64	13452
M4763.7	13432
M4763.8	13244
M4763.9	13246
M4764	13248
M4764.4	13252
M4764.41	13256
M4764.5	13263
M4764.7	13262
M4765	13260
M4765.05	13261
M4765.2	13240
M4765.3	13236
M4765.34	13228
M4765.35	13232
M4765.4	13224
M4765.5	13242
M4765.51	13242.1
M4765.6	13212
M4765.8	13216
M4766	13220
M4766.5	13196
M4766.7	13200
M4766.8	13204
M4766.81	13208
M4767	13132
M4767.6	13140
M4767.8	13134
M4767.81	13134.1
M4768	13144
M4770	13148
M4770.4	13148.5
M4771	13150
M4771.5	13151
M4775	13152
M4776	13156
M4778	13168
M4780	13172
M4780.5	13176
M4780.6	13180
M4780.7	13184
M4781	13192
M4781.5	13188
M4781.8	13178
M4782	13112
M4782.1	13116
M4782.5	13124
M4782.51	13128
M4782.6	13120
M4782.8	13104
M4782.9	13108
M4783	13096
M4784	13100
M4784.5	13092
M4785	13088
M4786	13080
M4786.3	13076
M4786.6	13084
M4787	12992
M4787.2	12994
M4788	13072
M4790	13064
M4790.4	13068
M4790.6	13060
M4790.8	13056
M4791	13052
M4791.2	13048
M4792	13032
M4793	13028
M4793.5	13024
M4794	13020
M4796	13004
M4797	13008
M4798.4	13012
M4798.6	13016
M4798.8	13002
M4799	13000
M4800	13044
M4800.4	13036
M4800.6	13040
M4801	13496
M4802	12988
M4804	12990
M4805	12984
M4812	11064
M4815	11062
M4815.3	11056
M4817	11060
M4819	11048
M4819.5	11044
M4820	11024
M4820.2	11028
M4820.6	11040
M4821	11032
M4821.2	11036
M4821.6	10924
M4822	10932
M4822.4	10928
M4823	11008
M4823.02	11004
M4823.06	11002
M4823.12	11000
M4823.2	10996
M4823.3	10992
M4823.4	11016
M4823.42	11020
M4824	10936
M4824.5	10937
M4825	10960
M4825.4	10940
M4825.5	10944
M4826.4	10948
M4827	10952
M4827.4	10956
M4828	10964
M4828.2	10968
M4828.6	10971
M4828.7	10972
M4828.8	10973
M4831	10980
M4831.7	10981
M4834	10920
M4835	10916
M4836	10912
M4837	10908
M4839	10904
M4840	10900
M4841.5	10899.1
M4842	10896
M4842.6	10898
M4857	10885
M4857.5	10884
M4858	10892
M4860	10876
M4860.2	10880
M4861	10874
M4864	10868
M4864.4	10872
M4865	10864
M4866	10860
M4866.4	10856
M4866.8	10844
M4867	10848
M4870	10808
M4870.5	10820
M4870.51	10824
M4872	10828
M4873	10832
M4873.6	10836
M4874	10840
M4876	10804
M4880	10796
M4881	10800
M4882	10784
M4883	10780
M4884	10788
M4884.1	10792
M4886	10776
M4887	10768
M4888	10772
M4889	10764
M4889.2	10762
M4889.4	10763
M4890	10760
M4892.6	10756
M4893	10752
M4894	10748
M4896	10736
M4896.4	10744
M4897	10712
M4898	10716
M4898.6	10708
M4898.7	10740
M4899	10724
M4899.4	10732
M4899.7	10720
M4900	10688
M4900.2	10704
M4900.7	10696
M4900.8	10700
M4900.94	10692
M4902	10684
M4903	10680
M4903.6	10676
M4903.7	10672
M4904	10648
M4904.2	10650
M4904.4	10656
M4904.5	10660
M4904.6	10644
M4904.8	10652
M4904.9	10668
M4905	10664
M4905.4	10640
M4906	10632
M4907	10636
M4907.5	10638
M4908	10624
M4908.4	10628
M4908.6	10630
M4909	10620
M4909.1	10610
M4909.2	10612
M4909.3	10613
M4909.4	10614
M4909.6	10616
M4909.8	10608
M4910	10604
M4912	10464
M4913	10600
M4913.5	10594
M4914	10596
M4916	10572
M4917	10576
M4917.5	10578
M4918	10580
M4920	10592
M4920.2	10588
M4920.4	10584
M4920.5	10586
M4921	10574
M4922	10524
M4923	10528
M4923.3	10526
M4924	10532
M4927.5	10535
M4928	10536
M4928.5	10538
M4929	10552
M4930	10548
M4938.3	10556
M4939	10558
M4940	10560
M4941	10564
M4943	10568
M4943.5	10570
M4944	9316
M4945	9312
M4945.5	9310
M4946	9308
M4946.6	9320
M4947	9300
M4947.04	9304
M4947.06	9321
M4947.08	9322
M4947.09	9338
M4947.1	9332
M4947.11	9328
M4947.12	9324
M4947.15	9336
M4947.18	9340
M4947.19	9341

CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

Inter.	— U.S.	Inter.	— U.S.	Inter.	— U.S.	Inter.	— U.S.
M4947.26	9344	M5002.4	12900	M5029.4	12936	M5091	11128
M4947.3	9342	M5002.6	12896	M5029.5	12934	M5092	11156
M4947.4	9348	M5002.7	12890	M5029.6	12932	M5093	11148
M4947.5	9352	M5002.8	12892	M5030	12924	M5094	11136
M4947.6	9356	M5003	12976	M5032	12912	M5094.25	11146
M4947.7	9364	M5003.5	12894	M5033	12916	M5094.3	11138
M4947.74	9360	M5004	12880	M5033.5	12920	M5094.4	11140
M4947.8	9368	M5005	12884	M5034	12908	M5094.6	11132
M4947.9	9376	M5005.4	12888	M5038	12588	M5095	11164
M4948	9372	M5005.7	12876	M5039	12584	M5096	11168
M4948.4	9380	M5006	12864	M5040	12582	M5097	11169
M4948.6	9384	M5006.4	12868	M5042	12580	M5098	11169.1
M4950	9388	M5006.55	12970	M5047	12564	M5100	11172
M4951	9392	M5007	12968	M5048.5	12568	M5100.2	11180
M4953	9396	M5008	12856	M5050.5	12562	M5101	11176
M4954	9400	M5008.2	12862	M5051	12556	M5101.4	11364
M4954.5	9404	M5008.4	12952	M5051.5	12558	M5102	11184
M4955	9408	M5008.45	12960	M5052	12544	M5103	11188
M4955.5	9412	M5008.6	12956	M5052.5	12540	M5106	11192
M4955.57	9414	M5009	12832	M5053	12548	M5106.2	11363
M4956	9416	M5009.6	12836	M5054	12552	M5106.5	11361
M4962	9421	M5010	12860	M5056	12536	M5107	11362
M4964	9424	M5010.2	12844	M5056.4	12532	M5107.5	11346
M4965	9428	M5010.3	12852	M5056.6	12528	M5109	11360
M4966	9432	M5010.35	12848	M5056.8	12524	M5110.2	11328
M4968	9676	M5010.5	12806	M5056.9	12520	M5112	11324
M4968.4	9680	M5010.6	12804	M5057	12512	M5114	11356
M4968.6	9684	M5011	12792	M5057.4	12516	M5117	11352
M4969	9688	M5011.4	12788	M5057.9	12510	M5118	11344
M4971	9696	M5011.5	12802	M5060	12504	M5120	11340
M4972	9692	M5012	12796	M5060.1	12508	M5126.5	11369
M4974	9700	M5012.4	12800	M5062	12500	M5128	11384
M4974.2	9704	M5012.8	12786	M5065	12492	M5129	11392
M4974.6	9708	M5013	12780	M5066	12490	M5129.05	11394
M4975	9712	M5013.4	12784	M5067	12488	M5129.1	11372
M4975.5	9714	M5014	12776	M5068	12484	M5129.15	11376
M4976.2	9716	M5014.5	12774	M5068.4	12480	M5129.2	11400
M4976.6	9734	M5015	12772	M5069	12476	M5129.25	11380
M4977	9726	M5015.3	12768	M5069.2	12477	M5129.3	11396
M4977.3	9728	M5016	12724	M5069.4	12472	M5129.4	11404
M4978	9720	M5016.4	12740	M5070	12456	M5129.6	11388
M4978.5	9724	M5017.2	12756	M5070.2	12460	M5129.7	11389
M4979	9730	M5017.4	12748	M5070.3	12462	M5129.8	11390
M4981	9738	M5017.5	12750	M5070.5	12468	M5130	11196
M4982	9742	M5017.7	12744	M5071	12600	M5131	11208
M4982.3	9744	M5017.8	12716	M5072	12608	M5132	11200
M4982.5	9736	M5018	12720	M5073	12604	M5133	11204
M4983	9746	M5020	12760	M5073.2	12612	M5134	11212
M4984	9750	M5021	12730	M5073.3	12614	M5136.4	11224
M4985	9754	M5022	12732	M5073.4	12616	M5136.7	11228
M4985.5	9756	M5024	12736	M5073.6	12622	M5137	11232
M4986	9758	M5025	12728	M5073.7	12620	M5137.4	11236
M4992	11096	M5025.5	12729	M5074	12596	M5137.47	11240
M4994	11100	M5026	12764	M5074.6	12590	M5137.48	11242
M4994.2	11094	M5026.6	12808	M5076	12440	M5137.5	11244
M4994.4	11092	M5027	12812	M5078	12446	M5137.6	11256
M4994.6	11088	M5027.4	12816	M5078.1	12447	M5137.7	11254
M4994.7	11084	M5027.6	12820	M5080	11068	M5137.8	11248
M4994.8	11112	M5028	12824	M5082	11076	M5138	11410
M4995	11108	M5028.4	12828	M5083	11072	M5138.4	11412
M4996	11104	M5028.6	12972	M5084	11080	M5138.5	11260
M4996.4	11152	M5028.8	12974	M5087	11124	M5138.6	11264
M4997	11160	M5029	12948	M5087.5	11126	M5138.8	11268
M4998	12980	M5029.2	12940	M5088	11120	M5138.85	11270
M5002	12904	M5029.21	12944	M5090	11116	M5138.9	11269

CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

Inter.	U.S.
M5138.95	11279
M5139	11276
M5139.2	11278
M5139.5	11276.5
M5140	11280
M5140.2	11284
M5140.4	11288
M5140.5	11292
M5140.55	11294
M5140.6	11296
M5140.8	11300
M5141	11312
M5141.2	11316
M5141.3	11512
M5141.4	11516
M5141.5	11520
M5141.6	11320
M5142	11308
M5142.4	11304
M5143	11556
M5143.2	11564
M5143.7	11322
M5143.8	11416
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M5261	12668

CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

Inter.	— U.S.	Inter.	— U.S.	Inter.	— U.S.	Inter.	— U.S.
M5261.2	12680	M5283	12390	M5354	9790	M5412	9164
M5261.3	12676	M5284	12336	M5355	9774	M5413	9228
M5261.4	12672	M5284.4	12332	M5355.2	9792	M5414	9160
M5261.45	12684	M5285	12416	M5356	9778	M5415	9224
M5261.5	12692	M5286	12420	M5356.1	9782	M5418	9156
M5261.7	12696	M5288	12392	M5358	9770	M5418.5	9152
M5261.72	12690	M5289	12396	M5360	9762	M5424	9296
M5261.74	12700	M5289.2	12400	M5366	9672	M5426	9292
M5261.8	12698	M5289.8	12404	M5372	9668	M5427	9288
M5261.9	12712	M5290	12412	M5376	9664	M5427.5	9284
M5262	12276	M5291	12408	M5380	9656	M5427.8	9280
M5263	12452	M5291.4	12424	M5380.1	9660	M5428	9272
M5265	12220	M5291.5	12428	M5382	9640	M5429	9276
M5265.4	12192	M5291.6	12432	M5386	9636	M5430	9270
M5265.6	12184	M5292	12436	M5387	9648	M5430.5	9268
M5265.65	12188	M5293	12438	M5387.3	9652	M5431	9264
M5265.8	12216	M5295	12439	M5387.5	9632	M5432	9260
M5266	12228	M5295.5	12439.5	M5388	9628	M5432.6	9252
M5266.2	12224	M5297	9912	M5389	9624	M5432.8	9256
M5266.3	12208	M5300	9888	M5390	9608	M5432.9	9246
M5266.35	12212	M5300.1	9892	M5390.4	9612	M5432.95	9247
M5266.4	12204	M5301	9896	M5390.45	9616	M5433	9248
M5266.45	12193.5	M5301.1	9900	M5390.6	9604	M5433.8	9240
M5266.5	12194	M5302	9880	M5391.4	9596	M5434	9244
M5267	12196	M5312	9766	M5392	9592	M5435	9236
M5268	12180	M5322	1548	M5393	9588	M5436	9128
M5269	12240	M5323	1550	M5394	9584	M5437	8812
M5269.02	12232	M5324	9962	M5394.5	9580	M5439	8810
M5269.04	12236	M5324.4	9962.2	M5396	9577	M5439.8	8806
M5269.06	12244	M5324.5	9962.4	M5397	9574	M5441	8804
M5269.2	12256	M5324.7	9962.6	M5397.5	9512.3	M5442	8800
M5269.22	12252	M5324.8	9962.8	M5398.5	9512	M5444	8796
M5269.24	12248	M5326	9952	M5399	9516	M5445	8896
M5269.3	12254	M5327	9956	M5400	9520	M5446	8790
M5269.5	12260	M5327.2	9954	M5400.3	9532	M5447	8792
M5269.55	12262	M5327.6	9953	M5400.4	9528	M5448	8788
M5269.6	12272	M5328	9960	M5400.5	9524	M5450	8772
M5269.62	12268	M5329	1544	M5400.8	9568	M5451	8768
M5269.7	12264	M5330	1540	M5400.81	9572	M5452	8764
M5269.8	12280	M5332	9948	M5401	9556	M5454	8760
M5269.9	12296	M5334	9944	M5401.6	9544	M5456	8716
M5269.92	12292	M5334.2	9946	M5402.5	9548	M5456.1	8720
M5269.94	12288	M5334.5	9942	M5402.51	9552	M5458	8744
M5269.95	12283	M5335.2	9924.5	M5404	9536	M5459.3	8748
M5269.96	12284	M5335.4	9928	M5404.4	9508	M5459.4	8752
M5270	12304	M5337	9932	M5404.5	9496	M5459.44	8756
M5270.15	12286	M5337.1	9936	M5404.7	9500	M5459.7	8736
M5270.2	12300	M5338.4	9864	M5404.8	9504	M5460	8732
M5270.3	12312	M5339	9860	M5405	9488	M5461	8740
M5270.4	12308	M5340	9836	M5405.2	9494	M5462	8724
M5270.6	12328	M5340.1	9840	M5405.4	9492	M5463	8728
M5271	12316	M5340.3	9820	M5406	9484	M5464	8712
M5272	12320	M5340.31	9824	M5406.2	9486	M5467	8700
M5272.4	12324	M5340.6	9804	M5406.5	9472	M5468	8704
M5273	12340	M5340.61	9808	M5406.55	9474	M5468.5	8708
M5274.5	12338	M5343	9872	M5406.7	9476	M5470	8692
M5275	12348	M5343.4	9876	M5406.8	9480	M5470.3	8696
M5275.2	12346	M5343.7	9868	M5407	9464	M5470.5	8688
M5275.4	12352	M5344	9848	M5407.4	9460	M5470.6	8687
M5276	12344	M5344.1	9852	M5408	9456	M5470.7	8676
M5279	12356	M5345	9844	M5408.5	9468	M5470.71	8680
M5280	12372	M5347	9816	M5409	9444	M5471	8672
M5282	12360	M5351	9794	M5409.1	9448	M5472	8656
M5282.4	12368	M5352	9788	M5409.4	9452	M5473	8660
M5282.5	12364	M5353	9786	M5410	9232	M5474.8	8682

CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

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M5610.12	10324
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M5611.4	10496
M5612	10492
M5612.1	10488
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CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

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M5615.6	10424	M5657	9108	M5697.2	8856	M5730	8392
M5616	10416	M5658	9100	M5697.4	8860	M5731	8388
M5616.2	10368	M5659	9104	M5697.5	8840	M5731.2	8388.5
M5616.4	10360	M5660	9102	M5697.6	8844	M5731.7	8312
M5618	10356	M5662	8920	M5697.7	8846	M5731.8	8308
M5618.2	10358	M5663	9096	M5697.8	8880	M5731.85	8306
M5619	10344	M5664	8916	M5697.9	8834	M5731.9	8304
M5619.2	10348	M5664.4	9092	M5698	8836	M5732	8300
M5619.4	10412	M5664.7	9088	M5698.4	8828	M5732.02	8296
M5620	10408	M5665.5	9080	M5699	8832	M5732.04	8288
M5621	10352	M5666	9076	M5699.4	8830	M5732.08	8292
M5621.4	10404	M5666.5	9072	M5700	8524	M5732.11	8294
M5622	10400	M5668	8924	M5700.5	8746	M5732.15	8284
M5622.4	10392	M5669	8956	M5702	8520	M5732.17	8181
M5622.5	10396	M5670	8958	M5703	8516	M5732.19	8283
M5622.7	10388	M5671	8952	M5706	8512	M5732.2	8274
M5623	10372	M5675.4	8948	M5708	8820	M5732.23	8282
M5623.4	10376	M5675.6	8949	M5709	8822	M5732.3	8280
M5623.5	10378	M5675.7	8944	M5710	8816	M5732.4	8276
M5623.6	10380	M5676.4	9044	M5710.6	8824	M5733	8272
M5624.5	10384	M5677	9040	M5710.8	8528	M5734	8256
M5625	10466	M5677.2	8932	M5711.2	8536	M5735	8118
M5625.2	10465.5	M5677.4	8928	M5711.4	8540	M5737	8114
M5625.6	10465	M5678	8936	M5711.5	8544	M5737.5	8110
M5626	9436	M5678.4	8940	M5711.8	8550	M5737.7	8102
M5626.2	9440	M5678.6	8977	M5712	8504	M5737.8	8106
M5627	9220	M5679	8964	M5713	8500	M5738	8098
M5628	9216	M5680	8980	M5714	8496	M5739	8086
M5632	9120	M5680.4	8988	M5715	8492	M5740	8082
M5634	9124	M5680.6	8968	M5715.5	8490	M5741.7	8072
M5634.5	9116	M5680.8	8972	M5716	8488	M5743	8078
M5636	9112	M5680.9	8976	M5717.4	8484	M5744	8090
M5638	9110	M5680.95	8978	M5718	8480	M5746	8094
M5639	9212	M5681	8984	M5718.5	8479	M5747	8074
M5639.2	9210	M5681.2	9036	M5719	8476	M5747.3	8088
M5639.4	9208	M5681.4	9034	M5719.5	8478	M5747.4	8088.5
M5640	9200	M5683	9028	M5720	8472	M5747.6	8064
M5641	9202	M5684	9024	M5721	8526	M5748	8070
M5642	9204	M5684.2	9023	M5722	8452	M5748.3	8060
M5644	9148	M5684.4	9023.5	M5723	8456	M5748.5	8058
M5644.4	9144	M5685	9022	M5723.3	8474	M5748.6	8040
M5645	9140	M5686	9020	M5723.4	8458	M5749	8048
M5645.4	9192	M5687	9004	M5723.7	8450.5	M5750	8044
M5645.6	9196	M5687.4	9012	M5724	8468	M5751	8052
M5646	9188	M5687.5	9008	M5724.2	8552	M5751.2	8056
M5646.3	9190	M5688.4	8994	M5724.4	8464	M5751.4	8036
M5646.5	9184	M5689	8992	M5724.6	8560	M5751.5	8038
M5646.7	9186	M5690	9000	M5724.8	8556	M5751.6	7856
M5647	9168	M5691	8996	M5724.9	8450	M5751.8	7848
M5649	9172	M5692	9052	M5725	8444	M5752	7852
M5650	9176	M5692.5	9050	M5725.4	8448	M5752.2	7844
M5651	9180	M5692.7	9054	M5726	8440	M5752.4	7840
M5651.2	8902	M5693	9056	M5727	8436	M5754	7828
M5651.3	8900	M5694	9060	M5728	8460	M5754.5	7824
M5651.6	9136	M5694.1	9064	M5728.5	8424	M5754.7	7822
M5651.7	9132	M5694.5	9068	M5728.7	8428	M5754.85	7826
M5651.75	9130	M5695	8888	M5729	8420	M5755	7820
M5651.8	8780	M5695.5	8886	M5729.4	8412	M5755.3	7816
M5652	8776	M5695.56	8890	M5729.5	8410	M5755.6	7800
M5652.5	8778	M5695.7	8872	M5729.6	8416	M5756	7804
M5653	8784	M5695.8	8868	M5729.7	8404	M5756.2	7808
M5654	8904	M5696	8892	M5729.71	8408	M5756.21	7812
M5654.5	8914	M5696.4	8864	M5729.8	8396	M5756.4	7788

CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

Inter.	— U.S.
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M5756.61	7796
M5756.7	7780
M5756.8	7784
M5757	7892
M5757.3	7888
M5757.4	7884
M5757.41	7880.5
M5757.42	7882
M5757.45	7885
M5757.5	7886
M5757.6	7880
M5757.9	7876
M5758	7868
M5758.4	7864
M5759.6	7776
M5759.7	7772
M5760	7768
M5761	7764
M5762	7752
M5763.3	7790
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M5763.6	7760
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M5764.6	7740
M5764.8	7744
M5766	7732
M5766.3	7728
M5766.5	7736
M5767	7726
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M5769	7724
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M5771.6	7712
M5772	7708
M5772.5	7704
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M5774	7684
M5774.4	7680
M5775	7692
M5780	7676
M5781	7672
M5782	7668
M5782.6	7664
M5782.8	7666
M5783	7652
M5784	7660
M5785	7656
M5796	7648
M5797	7936
M5798.4	7940
M5798.6	7944
M5798.8	7946
M5799	7948
M5799.5	7956
M5800	7952
M5802	7960
M5803	7964
M5804	7968
M5806	7972
M5809	7980
M5809.2	7976
M5811	7984
M5811.4	7172
M5812	7176
M5814	7180
M5814.2	7182
M5814.25	7183
M5814.3	7196
M5814.6	7516
M5815	7520
M5815.5	7524
M5816	7528
M5818.4	7536
M5819.5	7548
M5821	7592
M5822	7596
M5822.12	7600
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M5822.4	7616
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M5823	7626
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M5836	7650, 7650.5, 7651, 7651.5, 7651.6
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M5838.7	7508
M5840	7500
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M5843	7492
M5843.1	7494
M5843.2	7491
M5843.4	7490
M5844	7488
M5848	7482
M5852	7476
M5854	7408
M5857	7472
M5857.5	7472.5
M5860	7464
M5860.2	7471
M5860.3	7470
M5861	7460
M5862	7456
M5864.63	7412
M5865	7414
M5865.51	7415
M5865.52	7415.5
M5866	7416
M5866.3	7420
M5867	7424
M5867.2	7428
M5868	7452
M5870	7436
M5871	7440
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M5872	7448
M5886	7404
M5894	7384
M5899	7400
M5899.2	7430
M5899.3	7402
M5899.5	7398
M5906	7332
M5907	7336
M5920	7344
M5932	7348
M5939	7312
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M5939.8	7292
M5940	7304
M5945	7308
M5950	7284
M5951	7288
M5952	7289
M5952.1	7289.1
M5953	7280
M5953.6	7272
M5953.7	7271.9
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M5954	7271
M5955	7260
M5955.04	7264
M5955.06	7250
M5955.2	7268
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M5956.2	7244
M5956.25	7256
M5956.4	7252
M5957.2	7240
M5957.4	7236
M5957.5	7234
M5957.52	7235
M5957.61	7233
M5957.62	7231
M5957.63	7231.1
M5957.64	7233.5
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M5957.73	7230.5
M5957.74	7230.1
M5957.75	7230
M5957.8	7229
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M5958.2	7224
M5959	7204
M5960	7200
M5960.4	7208
M5960.5	7206
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M5961.6	7036
M5961.8	7034
M5962.4	7024
M5963	7028
M5964	7032
M5965	7018
M5965.05	7016
M5965.12	7012
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M5966	7000
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M5967.35	6972
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M5967.5	6964
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M5967.82	6958
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M5969.4	6912
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M5970	6900
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M5974.5	6892
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M5977	6884
M5977.4	6880
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M5977.7	6836
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M5980	6844
M5980.4	6852
M5980.61	6860
M5980.8	6858
M5980.9	6848
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M5981.1	6868
M5981.6	6872
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M5981.8	6876
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M5987	6816
M5988	6808
M5988.4	6812
M5989	6804
M5990	6802
M5991	6788
M5991.1	6792
M5994	6776
M5995	6768
M5995.6	6772
M5996	6780
M5996.05	6740
M5996.2	6736
M5996.4	6748
M5997	6744
M5997.2	6784
M5997.3	6752
M5997.6	6760
M5998	6756
M5999	6742
M6000	6732
M6001	6724
M6001.1	6728

CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

Inter.	— U.S.	Inter.	— U.S.	Inter.	— U.S.	Inter.	— U.S.
M6001.5	6720	M6032	6448	M6063	6292	M6160.2	6020
M6002	6716	M6032.2	6456	M6063.4	6296	M6160.3	6055
M6003	6708	M6032.3	6464	M6063.5	6294	M6160.5	6050
M6003.4	6712	M6032.4	6460	M6063.6	6264	M6160.6	6056
M6004	6700	M6032.5	6468	M6064	6268	M6161	6076
M6006	6704	M6032.6	6472	M6066	6260	M6161.3	6080
M6006.8	6696	M6032.7	6420	M6072.1	6255	M6161.4	6084
M6007	6688	M6033	6440	M6073.5	6254	M6161.5	6008
M6007.1	6692	M6033.2	6444	M6074	6252	M6161.6	6044
M6007.2	6684	M6033.3	6424	M6080	6232	M6161.7	6048
M6007.3	6682	M6033.31	6428	M6080.2	6244	M6161.8	6040
M6007.4	6680	M6033.32	6432	M6080.21	6248	M6161.9	6006
M6007.5	6678	M6033.41	6392	M6081	6236	M6162	6000
M6008	6644	M6033.42	6436	M6081.2	6240	M6162.3	6004
M6008.5	6640	M6033.46	6416	M6081.4	6228	M6163	5984
M6008.7	6636	M6033.5	6412	M6082	6224	M6163.4	5972
M6009	6632	M6033.6	6414	M6084	6220	M6163.6	5988
M6009.2	6628	M6033.7	6408	M6085	6222	M6164	5980
M6009.5	6652	M6033.8	6404	M6087	6212	M6164.4	5992
M6009.54	6656	M6034.2	6396	M6093	6208	M6178	5968
M6009.6	6648	M6034.5	6400	M6093.5	6210	M6180	5964
M6009.64	6660	M6036	6384	M6093.6	6209	M6192.3	5962
M6009.7	6664	M6036.2	6388	M6094	6204	M6193	5960
M6010	6668	M6036.3	6307	M6094.4	6200	M6194.2	5944
M6010.2	6672	M6036.4	6380	M6095	6196	M6194.4	5948
M6010.3	6676	M6038	6376	M6095.6	6140	M6194.5	5952
M6010.4	6624	M6038.2	6378	M6095.62	6140.21	M6194.7	5940
M6011	6620	M6042	6356	M6095.63	6140.22	M6195	5936
M6012	6580	M6042.25	6374	M6095.64	6140.31	M6195.4	5932
M6013	6588	M6042.3	6352	M6095.65	6140.32	M6195.6	5920
M6014	6616	M6042.4	6362	M6096	6192	M6196	5928
M6015	6612	M6042.46	6364	M6097	6164	M6196.4	5916
M6016	6604	M6042.6	6368	M6097.2	6168	M6196.5	5924
M6017	6608	M6044	6372	M6097.4	6172	M6196.54	5926
M6019	6596	M6044.5	6360	M6097.6	6184	M6196.6	5908
M6020	6600	M6045	6344	M6098	6176	M6196.7	5912
M6021	6592	M6045.2	6348	M6099	6180	M6197	5900
M6021.5	6584	M6046	6336	M6110.1	6161	M6197.2	5904
M6022	6548	M6046.3	6340	M6110.12	6161.1	M6197.6	5896
M6022.2	6568	M6047	6332	M6110.15	6162	M6198	5888
M6022.4	6560	M6047.2	6330	M6110.16	6162.1	M6199	5884
M6022.5	6564	M6047.4	6300	M6111	6152	M6200	5880
M6022.7	6558	M6047.6	6288	M6115	6146	M6201.5	5870
M6023	6576	M6047.8	6304	M6133	6136	M6201.8	5866
M6023.5	6572	M6048	6328	M6135	6132	M6202	5868
M6023.8	6544	M6048.5	6320	M6136	6128	M6204	5864
M6024	6552	M6049	6324	M6137	6124	M6206	5860
M6024.8	6540	M6050	6276	M6138	6120	M6207	5858
M6025	6524	M6050.1	6280	M6138.5	6116	M6208	5874
M6025.4	6536	M6050.3	6284	M6138.6	6110.9	M6208.7	5875
M6025.6	6528	M6050.8	6272	M6139	6112	M6209.5	5873
M6025.7	6537	M6051	5824	M6141	6110	M6210	5872
M6026.3	6520	M6051.3	5832	M6144	6108	M6216	5852
M6026.35	6522	M6051.5	5822	M6146	6104	M6216.4	5856
M6026.4	6516	M6052	5812	M6156	6096	M6217	5844
M6026.5	6508	M6053	5816	M6156.5	6100	M6217.4	5848
M6027	6512	M6053.4	5820	M6158.2	6088	M6218.5	5810
M6027.15	6500	M6055	6072	M6158.5	6092	M6219	5800
M6027.17	6504	M6055.5	5836	M6159	6036	M6221	5804
M6027.3	6496	M6056.2	6064	M6159.2	6032	M6221.2	5808
M6027.4	6492	M6057.5	6060	M6159.3	6028	M6224	5792
M6027.5	6488	M6057.6	6074	M6159.4	6016	M6225	5790
M6027.6	6484	M6057.8	6308	M6159.45	6018	M6226	5784
M6028	6476	M6058	6312	M6159.5	6024	M6228	5778
M6031	6452	M6059	6316	M6160	6012	M6230	5780

CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

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M6234.5	5770
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M6234.7	5768
M6234.73	5766
M6234.8	5764
M6235	5760
M6235.1	5762
M6235.5	5756
M6236	5752
M6236.2	5754
M6236.3	5753
M6237	5748
M6238	5746
M6239	5744
M6239.4	5736
M6239.5	5740
M6241	5732
M6244	5724
M6244.5	5726
M6248	5708
M6248.4	5704
M6249	5700
M6249.4	5692
M6249.5	5696
M6253	5676
M6253.2	5680
M6253.4	5684
M6255	5688
M6262	5716
M6262.1	5720
M6263	5668
M6264	5624
M6264.2	5628
M6265	5632
M6265.1	5636
M6266	5640
M6266.4	5644
M6267.4	5652
M6267.5	5648
M6267.6	5656
M6267.64	5660
M6267.68	5662
M6267.69	5663
M6267.7	5664
M6268.2	5616
M6268.4	5620
M6268.8	5612
M6268.9	5608
M6269	5604
M6269.2	5600
M6269.22	5602
M6269.27	5592
M6269.3	5588
M6269.5	5584
M6269.6	5580
M6270	5572
M6270.4	5576
M6272	5556
M6272.5	5558
M6272.8	5562
M6273	5560
M6273.5	5552
M6274	5564
M6274.4	5568
M6274.8	5566
M6275	4924
M6275.5	4922
M6276	4920
M6276.1	4928
M6276.3	4938
M6276.4	4932
M6276.6	4939
M6277	4952
M6277.4	4956
M6278.1	4948
M6278.5	4950
M6279.6	4940
M6280	5488
M6281	5484
M6281.1	5492
M6281.2	5496
M6281.7	5486
M6282	5476
M6284	5480
M6286	5500
M6290	5548
M6291	5546
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M6293	5544
M6293.3	5540
M6294	5532
M6295	5528
M6296	5524
M6297	5522
M6300	5504
M6300.4	5512
M6300.6	5520
M6302	5516
M6302.4	5472
M6303	5468
M6303.5	5466
M6304	5464
M6306	5452
M6307.5	5456
M6308	5448
M6309	5444
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M6338	5388
M6339	5392
M6340	5396
M6340.5	5394
M6342	5384
M6343	5368
M6344	5372
M6345	5376
M6347	5364
M6349	5380
M6354	5044
M6354.3	5048
M6355	5056
M6357	5060
M6358	5064
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M6359	5072
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M6361	5084
M6362	5080
M6368	5092
M6370.09	5095
M6372	5132
M6376	5128
M6377	5140
M6377.25	5142
M6377.5	5141
M6378	5136
M6380	5144
M6390	5146
M6400.6	5148
M6400.61	5152
M6401	5156
M6401.2	5160
M6401.3	5164
M6401.32	5168
M6401.4	5172
M6401.45	5170
M6401.5	5180
M6401.6	5176
M6401.64	5182
M6402	5188
M6406	5184
M6407	5204
M6411	5200
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M6418	5216
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M6418.4	5224
M6418.41	5228
M6419.2	5244
M6420	5236
M6421.8	5246
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M6424	5254
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M6427.17	5268
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M6427.8	5284
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M6429	5288
M6430	5304
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M6431	5296
M6432	5300
M6433	5308
M6433.6	5312
M6434.2	5316
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M6434.67	5356
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M6440.4	5110
M6440.6	5108
M6440.8	5106
M6441	5096
M6442	5100
M6443	5104
M6443.5	5055.5
M6443.8	5053
M6443.9	5052.5
M6444	5052
M6444.5	5051
M6445	5040
M6445.5	5036
M6446.5	5030
M6447	5028
M6448	5020
M6448.4	5024
M6451	5012
M6451.2	5016
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M6455	5000
M6456	4992
M6457	4984
M6457.1	4988
M6457.4	4990
M6458	4980
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M6459.1	4916
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M6462	4904
M6463	4890
M6465	4888
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M6466	4880
M6466.6	4882
M6467.4	4876
M6468	4872
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M6468.4	4860
M6468.41	4864
M6469	4848
M6469.2	4852
M6469.4	4856
M6470	4836
M6470.1	4844
M6470.14	4840
M6470.2	4828
M6470.3	4832
M6470.7	4824
M6470.8	4826
M6470.9	4818
M6471	4816
M6471.03	4812
M6471.1	4804
M6471.11	4808
M6472	4800
M6477	4796
M6478	4780
M6478.4	4784
M6479	4788
M6482	4752

CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

Inter.	— U.S.	Inter.	— U.S.	Inter.	— U.S.	Inter.	— U.S.
M6482.2	4768	M6517.4	4480	M6567.5	4252	M6606	3992
M6482.4	4764	M6517.45	4484	M6568	4240	M6607	3988
M6483	4756	M6517.46	4479	M6570	4236	M6607.4	3986
M6483.4	4760	M6517.47	4478	M6571	4216	M6607.5	3984
M6491	4776	M6517.5	4476	M6572	4214	M6607.8	3983
M6491.4	4750	M6518	4472	M6578	4224	M6608	3972
M6491.41	4750.1	M6520	4432	M6579	4220	M6609	3980
M6492	4744	M6520.5	4434	M6581	4208	M6610	3976
M6492.4	4741	M6521	4452	M6582	4172	M6610.3	3978
M6493.2	4740	M6521.05	4457.5	M6582.2	4176	M6610.6	3982
M6494.2	4732	M6521.1	4464	M6582.4	4180	M6612	3956
M6495	4720	M6521.2	4460	M6582.6	4184	M6612.1	3960
M6495.3	4708	M6521.25	4457	M6582.9	4196	M6613	3964
M6495.4	4728	M6521.32	4458	M6583.3	4204	M6613.3	3968
M6495.45	4710	M6521.35	4456	M6583.4	4206	M6614	3952
M6495.5	4704	M6521.4	4448	M6583.5	4188	M6615	3948
M6495.6	4702	M6521.5	4454	M6583.7	4192	M6618	3944
M6495.8	4688	M6522	4444	M6584	4166	M6618.4	3942
M6495.9	4684	M6523	4442	M6586	4164	M6619	3941
M6496	4692	M6530	4428	M6586.2	4162	M6620	3896
M6496.02	4700	M6531	4424	M6586.4	4160	M6621	3900
M6496.03	4696	M6532	4412	M6586.6	4156	M6622	3920
M6496.04	4680	M6533	4408	M6587	4152	M6623	3924
M6496.1	4676	M6533.4	4400	M6588	4148	M6623.2	3928
M6496.2	4672	M6533.6	4404	M6588.2	4144	M6623.6	3922
M6496.3	4668	M6533.8	4416	M6588.4	4140	M6624	3936
M6496.6	4660	M6533.81	4420	M6589	4136	M6624.4	3940
M6497	4664	M6534	4380	M6589.25	4108	M6624.7	3916
M6498.2	4656	M6535.2	4384	M6589.3	4113	M6624.8	3904
M6499	4652	M6537	4376	M6589.4	4132	M6624.85	3906
M6499.8	4632	M6538	4372	M6589.8	4128	M6625	3892
M6500	4636	M6540	4368	M6592	4116	M6625.5	3908
M6500.4	4612	M6540.5	4366	M6593	4100	M6625.7	3884
M6500.6	4620	M6541	4364	M6593.2	4104	M6626	3888
M6502	4624	M6544	4348	M6593.3	4098	M6627	3880
M6502.8	4644	M6545	4352	M6594	4096	M6627.3	3878
M6503	4640	M6545.5	4360	M6594.5	4092	M6628	3860
M6503.5	4648	M6545.7	4354	M6595	4084	M6628.4	3872
M6504	4608	M6546	4344	M6595.04	4088	M6628.8	3856
M6505	4604	M6547	4336	M6595.1	4060	M6630	3852
M6505.4	4592	M6548	4340	M6595.15	4058	M6631	3848
M6505.6	4588	M6549	4320	M6595.2	4076	M6631.2	3847
M6507	4584	M6549.5	4324	M6595.4	4068	M6631.4	3845
M6507.4	4580	M6549.8	4334	M6595.5	4064	M6631.5	3846
M6508	4560	M6554	4304	M6595.7	4072	M6631.6	3846.5
M6509.6	4564	M6555	4316	M6596	4040	M6631.8	3846.1
M6511	4556	M6555.2	4308	M6597	4048	M6632	3840
M6512	4552	M6555.21	4312	M6597.2	4056	M6633	3844
M6513	4550	M6556	4300	M6597.3	4052	M6633.5	3836
M6514.2	4536	M6557	4296	M6597.35	4044	M6633.6	3835
M6514.3	4542	M6558	4292	M6597.6	4036	M6633.8	3834
M6514.6	4524	M6560	4284	M6598	4028	M6634	3828.6
M6514.8	4532	M6560.2	4285	M6599	4026	M6634.5	3832
M6514.9	4528	M6561	4288	M6600	4025	M6635	3830
M6514.95	4520	M6561.6	4282	M6602	4024	M6635.4	3833
M6514.96	4512	M6562	4280	M6603	4020	M6636	3828.2
M6514.97	4516	M6564	4276	M6603.5	4018	M6636.2	3828.4
M6515	4504	M6566	4268	M6604	4016	M6636.3	3828
M6515.2	4508	M6566.5	4256	M6604.1	4015	M6636.4	3818
M6515.4	4500	M6567	4248	M6604.2	4014	M6636.7	3816
M6516	4496	M6567.2	4260	M6604.5	4012	M6637	3812
M6516.7	4499	M6567.21	4264	M6605	4008	M6637.4	3811
M6516.8	4498	M6567.3	4254	M6605.25	4006	M6638	3810
M6516.85	4497	M6567.4	4272	M6605.4	4000	M6638.4	3809
M6517	4488	M6567.48	4246	M6605.8	3996	M6639.5	3806

CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

Inter.	— U.S.	Inter.	— U.S.	Inter.	— U.S.	Inter.	— U.S.
M6639.6	3808	M6725	864	M6774.6	648	M6845	444
M6640	3804	M6727	860	M6775	644	M6847	440
M6640.2	3802	M6727.4	860.5	M6776	640	M6850	436
M6640.25	3800	M6728.5	858	M6777	632	M6852	432
M6640.4	3790	M6729	856	M6777.5	636	M6853	438
M6641	3780	M6730	852	M6778	628	M6854	439
M6641.2	3788	M6730.3	851	M6780	626	M6856	388
M6641.4	3778	M6730.5	850	M6781	620	M6856.5	392
M6641.6	3776	M6731	848	M6783	624	M6856.7	396
M6641.7	3772	M6732	844	M6784	616	M6857	400
M6642	3768	M6733	836	M6786	604	M6857.4	402
M6642.5	3764	M6734	842	M6788	608	M6857.5	404
M6643	3760	M6735	832	M6789	612	M6858	424
M6643.2	3744	M6737	830	M6790	602	M6859	412
M6643.5	3740	M6738	828	M6791	600	M6861	416
M6645.5	3736	M6740	812	M6792	596	M6861.2	420
M6646	3731.5	M6740.5	814	M6794	590	M6861.4	426
M6647.5	3734	M6741	816	M6794.5	589	M6861.5	428
M6648	3731	M6741.05	816.5	M6797	584	M6862	308
M6650.5	3728	M6741.1	818	M6798	588	M6863	430
M6650.7	3726	M6741.2	820	M6799	578	M6866	296
M6651	3724	M6741.25	820.5	M6802	576	M6870	304
M6654	3716	M6741.3	824	M6803	572	M6872	300
M6656	3720	M6741.35	811	M6807.5	556	M6876	294
M6657	3712	M6741.4	810	M6808	560	M6877	288
M6657.5	3714	M6741.5	808	M6809	562	M6878	292
M6658	3708	M6742	796	M6810	564	M6878.5	293
M6662	3704	M6742.4	800	M6811.7	554	M6882	280
M6662.5	3707	M6744	792	M6812	552	M6884	272
M6663	3706	M6744.2	790.5	M6812.4	548	M6884.3	271
M6668	3696	M6744.5	788	M6813	544	M6884.4	268
M6672	3692	M6745	688	M6814	516	M6884.6	270
M6673	3688	M6745.5	692	M6814.1	522	M6885	252
M6684	988	M6746	708	M6814.2	520	M6886	256
M6686	992	M6746.4	704	M6814.3	542	M6886.2	262
M6690	964	M6746.6	696	M6814.4	540	M6886.4	260
M6691	968	M6747	712	M6814.5	529	M6887	264
M6691.2	960.5	M6748	724	M6815	524	M6889	248
M6692	960	M6749	716	M6816	536	M6890	244
M6693	956	M6750	720	M6816.4	532	M6892	236
M6695	948	M6754.3	736	M6822	512	M6893.5	232
M6696	952	M6754.31	740	M6826	508	M6893.6	228
M6698	944	M6755	748	M6826.5	510	M6893.65	226
M6700	940	M6755.1	752	M6828	500	M6893.7	224
M6701	936	M6756	744	M6828.4	502	M6894.4	216
M6701.5	934	M6762	756	M6829	504	M6894.5	212
M6702	928	M6762.1	760	M6830	492	M6894.6	208
M6702.5	932	M6763	764	M6830.4	498	M6895	204
M6703	924	M6763.1	768	M6831	496	M6895.2	202
M6704	920	M6768	772	M6834	488	M6895.4	200
M6704.5	922	M6768.1	776	M6834.3	486	M6896	1524
M6706	900	M6769	780	M6834.5	484	M6896.5	1536
M6707	904	M6769.1	784	M6835	480	M6897	1532
M6707.4	908	M6770	680	M6835.5	478	M6897.4	1522
M6707.5	898	M6770.3	684	M6836	472	M6897.6	1520
M6708	912	M6772	676	M6837	476	M6898	1516
M6714	916	M6773	664	M6837.5	474	M6899	1512
M6715	896	M6773.1	674	M6837.7	470	M6900	1508
M6716	892	M6773.3	675	M6838.4	469	M6900.5	1510
M6718	888	M6773.4	668	M6839	460	M6901	1476
M6719	884	M6773.7	672	M6839.2	468	M6901.2	1487
M6720	882	M6773.75	673	M6839.4	464	M6902	1484
M6722	880	M6774	660	M6839.6	458	M6902.4	1488
M6724	876	M6774.3	658	M6840	448	M6903.4	1492
M6724.4	868	M6774.4	652	M6842	452	M6904	1486

CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

Inter.	U.S.
M6905	1486.5
M6905.2	1480
M6906	1474
M6907	1472
M6908	1428
M6908.4	1432
M6909	1424
M6910	1436
M6910.5	1444.5
M6910.7	1440
M6911	1448
M6911.2	1466
M6911.6	1456
M6912	1460
M6912.4	1464
M6913	1452
M6913.5	1462
M6914	1433
M6915	1372
M6917	1378
M6919	1420
M6922	1416
M6922.4	1412
M6923	1408
M6923.6	1404
M6924	1400
M6925	1396
M6926	1392
M6927	1388
M6928	1380
M6930	1384
M6932	1368.5
M6934.1	1367
M6934.5	1356
M6935	1364
M6939	1336
M6941	1332
M6941.5	1350
M6942	1352
M6942.6	1344
M6942.8	1348
M6944	1324
M6945	1330
M6946	1328
M6953	1312
M6954	1308
M6954.4	1320
M6955	1316
M6957	1304
M6958	1300
M6959	1296
M6960.6	1272
M6960.8	1280
M6961	1276
M6962	1284
M6970	1260
M6972	1268
M6972.2	1256
M6972.4	1258
M6973.5	1252
M6974	1248
M6974.4	1244
M6975.5	1240
M6979	1231.5
M6980	1232
M6981.2	1231.2
M6981.4	1230
M6981.41	1231
M6988	1224
M6989	1228
M6992	1220
M6995	1216
M6996	1212
M6997.5	1210
M6998	1196
M6998.4	1204
M6998.6	1200
M6999.4	1208
M7001	1188
M7002	1184
M7003	1180
M7004	1172
M7004.5	1178
M7005	1176
M7005.2	1168
M7005.5	1164
M7005.7	1160
M7006	1152
M7008	1156
M7009	1148
M7010	1144
M7011	1140
M7012	1136
M7013	1132
M7013.2	1130
M7013.4	1128
M7014	1124
M7015	1120
M7016	1116
M7018	1112
M7018.5	1108
M7019	1100
M7019.4	1104
M7020	1096
M7021	1088
M7022	1080
M7023	1084
M7023.2	1076
M7023.3	1092
M7023.8	1072
M7024.4	1064
M7024.6	1068
M7025.2	1056
M7025.4	1052
M7026	1048
M7028	1032
M7028.4	1044
M7029	1036
M7029.4	1040
M7031	1024
M7032.4	1016
M7032.6	1008
M7033	1012
M7034	1004
M7036	1000
M7037	996
M7039	984
M7040	980
M7042	972
M7044	976
M7048	3680
M7052	3672
M7052.5	3674
M7053	3676
M7053.3	3670
M7053.6	3668
M7053.8	3664
M7054	3660
M7054.4	3658
M7055	3652
M7055.1	3644
M7055.12	3646
M7055.14	3648
M7055.2	3640
M7055.5	3636
M7055.8	3632
M7055.9	3628
M7056	3624
M7056.3	3622
M7057	3612
M7057.2	3620
M7057.4	3608
M7058	3604
M7058.8	3600
M7058.9	3596
M7059.5	3592
M7059.6	3588
M7060	3584
M7061	3560
M7061.4	3562
M7062	3564
M7062.7	3574
M7063.3	3576
M7063.4	3572
M7063.5	3568
M7064	3580
M7066	3552
M7067	3556
M7069	3544
M7069.6	3540
M7070	3528
M7072	3520
M7072.4	3524
M7075	3516
M7075.5	3513
M7076	3504
M7076.1	3506
M7076.2	3512
M7076.3	3508
M7077	3496
M7077.4	3500
M7080	3492
M7082	3472
M7082.5	3476
M7083	3484
M7085	3488
M7086	3470
M7087	3460
M7087.1	3464
M7087.2	3468
M7087.35	3456.1
M7087.4	3456
M7087.8	3440
M7087.9	3444
M7088	3428
M7088.4	3432
M7088.6	3436
M7088.8	3424
M7089	3416
M7089.5	3420
M7090	3412
M7090.5	3408
M7090.7	3405
M7090.8	3406
M7092	3272
M7092.4	3276
M7092.6	3280
M7093	3284
M7093.5	3286
M7094	3292
M7094.4	3290
M7095	3288
M7096	3296
M7096.5	3300
M7097	3304
M7098	3308
M7100.2	3312
M7100.6	3314
M7101.5	3315
M7102	3316
M7102.5	3320
M7102.7	3214
M7103	3216
M7103.08	3218
M7103.3	3220
M7103.5	3224
M7103.51	3226
M7103.52	3222
M7103.6	3228
M7104	3232
M7104.4	3236
M7104.5	3240
M7104.7	3244
M7105	3248
M7106	3256
M7106.2	3258
M7106.4	3252
M7107	3260
M7107.4	3264
M7107.6	3268
M7108.2	3388
M7108.4	3396
M7108.6	3392
M7109	3380
M7110	3384
M7110.5	3352
M7111.2	3356
M7112	3360
M7113	3372
M7116	3376
M7116.5	3370
M7116.8	3350
M7117	3348
M7117.4	3344
M7118	3340
M7118.4	3332
M7119	3328
M7119.5	3326
M7120	3324
M7125	3200

CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

Inter.	— U.S.	Inter.	— U.S.	Inter.	— U.S.	Inter.	— U.S.
M7125.5	3202	M7183	2976	M7239.5	2716	M7274.4	2448
M7128	3196	M7183.5	2982	M7239.7	2712	M7274.5	2444
M7132	3192	M7184	2972	M7240	2704	M7274.7	2443
M7132.5	3188	M7185	2960	M7240.2	2708	M7275	2440
M7132.8	3180	M7186	2964	M7240.3	2696	M7276	2428
M7133	3184	M7186.2	2968	M7240.4	2700	M7277	2432
M7134	3172	M7186.6	2956	M7240.5	2692	M7278	2436
M7135	3168	M7188	2944	M7240.7	2688	M7278.6	2412
M7136.5	3170	M7188.1	2940	M7241	2684	M7279	2416
M7136.6	3164	M7188.2	2936	M7241.5	2680	M7279.1	2420
M7136.7	3156	M7188.4	2948	M7242	2676	M7279.2	2424
M7136.8	3160	M7189	2932	M7242.6	2672	M7280	2400
M7136.9	3152	M7189.4	2928	M7243	2668	M7280.2	2401.01
M7137	3148	M7189.6	2924	M7243.5	2666	M7280.21	2401
M7137.2	3144	M7190	2920	M7243.7	2640	M7280.3	2401.1
M7137.4	3143	M7190.8	2916	M7243.75	2636	M7280.4	2408
M7137.6	3140	M7192.4	2912	M7243.8	2632	M7280.7	2402
M7142	3132	M7192.6	2914	M7244	2628	M7281	2376
M7144	3136	M7194	2904	M7245	2624	M7281.5	2380
M7144.4	3124	M7194.5	2902	M7245.5	2620	M7282	2392
M7144.5	3128	M7195	2896	M7246	2600	M7283	2396
M7145	3120	M7195.4	2900	M7247	2604	M7283.2	2372
M7147	3116	M7195.8	2892	M7248.2	2616	M7283.3	2384
M7148	3108	M7195.9	2876	M7249	2596	M7283.4	2368
M7149	3112	M7195.95	2880	M7249.6	2592	M7283.5	2360
M7150.5	3100	M7196	2888	M7250	2588	M7283.51	2364
M7150.6	3098	M7198	2872	M7250.5	2584	M7283.52	2352
M7151	3096	M7199	2884	M7250.6	2585	M7283.54	2356
M7151.4	3092	M7200	2856	M7251	2580	M7283.57	2340
M7151.6	3104	M7201	2860	M7251.4	2576	M7283.58	2348
M7151.8	3090	M7201.4	2864	M7251.6	2572	M7283.59	2344
M7152	3084	M7201.6	2868	M7252	2556	M7283.6	2332
M7154	3088	M7202	2852	M7252.4	2560	M7283.7	2336
M7156	3080	M7204	2836	M7252.7	2568	M7283.8	2328
M7160	3056	M7206	2840	M7252.8	2564	M7283.84	2324
M7160.4	3060	M7207	2844	M7254	2548	M7283.85	2320
M7160.6	3064	M7209	2832	M7254.4	2544	M7283.9	2308
M7160.9	3072	M7210	2830	M7254.6	2552	M7283.94	2316
M7160.92	3068	M7212	2828	M7254.7	2554	M7283.96	2312
M7161.3	3076	M7212.4	2824	M7255	2540	M7284	2300
M7162.2	3066	M7213	2820	M7255.4	2538	M7285	2304
M7162.3	3065	M7214	2812	M7256.6	2528	M7285.5	2298
M7162.4	3064.1	M7216	2816	M7257	2536	M7286	2296
M7164.5	3052	M7220	2792	M7257.2	2532	M7286.4	2292
M7166	3044	M7221	2804	M7258	2504	M7287	2288
M7166.5	3048	M7221.1	2808	M7259	2516	M7287.5	2276
M7166.75	3046	M7221.3	2790	M7260	2512	M7287.6	2286
M7167.4	3040	M7221.4	2791	M7261	2520	M7287.7	2280
M7168	3036	M7221.6	2788	M7261.4	2524	M7288.6	2264
M7169	3032	M7224	2780	M7262	2518	M7288.8	2268
M7169.5	3030	M7225	2772	M7267	2500	M7288.9	2260
M7170	3028	M7226	2776	M7268.8	2497	M7289	2256
M7170.5	3024	M7230	2768	M7269.4	2488	M7289.1	2252
M7171	3020	M7232	2752	M7269.45	2486	M7289.14	2248
M7171.4	3016	M7232.4	2764	M7269.5	2492	M7289.2	2236
M7171.8	2994	M7233	2760	M7269.6	2496	M7289.3	2244
M7172	2992	M7233.2	2756	M7269.7	2484	M7289.4	2240
M7172.4	2988	M7234	2744	M7270	2480	M7290.2	2232
M7173	2984	M7234.4	2748	M7271.4	2476	M7292	2224
M7174	2996	M7236	2740	M7271.6	2472	M7293	2220
M7174.5	3000	M7236.4	2736	M7272	2468	M7293.5	2216
M7177	3004	M7237	2720	M7273	2464	M7294	2180
M7180	3008	M7237.2	2732	M7274	2456	M7294.5	2182
M7182.2	3014	M7237.4	2728	M7274.1	2460	M7296	2184
M7182.6	2980	M7238	2724	M7274.2	2452	M7297	2188

CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

Inter.	— U.S.	Inter.	— U.S.	Inter.	— U.S.	Inter.	— U.S.
M7298	2190	M7327	1971	M7364.5	1723	M7480.01	16170.1
M7300	2208	M7327.5	1968	M7365	1688	M7482	16170.18
M7304	2212	M7328	1972	M7368	1764	M7498	16160
M7305	2204	M7331	1960	M7369.6	1760	M7502	16052
M7306	2192	M7331.5	1964	M7370	1748	M7503	16053
M7307	2196	M7332	1958	M7372.4	1754	M7504	16054
M7308	2200	M7333	1956	M7374	1758	M7528	16056
M7314	2016	M7333.2	1952	M7377	1628	M7538	16008
M7315	2020	M7333.5	1944	M7378	1632	M7558	16004
M7315.2	2024	M7333.7	1948	M7378.2	1634	M7562	15948
M7315.4	2028	M7334	1936	M7378.6	1640	M7563	15952
M7315.6	2168	M7335	1940	M7378.8	1644	M7563.2	15944
M7316	2172	M7336	1924	M7378.9	1648	M7563.4	15992
M7317	2176	M7336.4	1928	M7379	1636	M7563.41	15996
M7318	2010	M7337	1932	M7380	1684	M7563.6	16000
M7318.4	2012	M7337.6	1922	M7381.8	1656	M7564	15960
M7318.6	2008	M7338	1916	M7381.9	1660	M7564.1	15964
M7318.8	2006	M7339	1920	M7382	1652	M7566	15968
M7319.5	2076	M7341	1904	M7382.2	1664	M7566.1	15972
M7319.7	2072	M7341.2	1912	M7384	1668	M7567	15956
M7319.75	2070	M7341.4	1900	M7386	1680	M7567-7	15958
M7319.77	2069	M7342	1888	M7388	1620	M7568.4	15965.1
M7319.8	2068	M7343	1892	M7389	1672	M7568.5	15965
M7320	2064	M7343.6	1884	M7389.5	1624	M7569	15940
M7320.2	2056	M7345	1876	M7390.5	1616	M7570	15942
M7320.4	2060	M7346	1868	M7391	1612	M7572	15936
M7320.8	2052	M7346.2	1872	M7392	1604	M7573	15934
M7321.1	2048	M7346.4	1864	M7394	1600	M7574	15926
M7321.12	2046	M7346.5	1860	M7394.2	1596	M7576	15924
M7321.14	2044	M7347	1856	M7395	1592	M7578	15920
M7321.16	2040	M7347.4	1852	M7395.2	1594	M7579	15909.5
M7321.2	2032	M7348	1824	M7395.4	1576	M7579.5	15909
M7321.25	2036	M7348.5	1844	M7395.6	1580	M7581	15908
M7321.3	2088	M7349	1828	M7395.8	1588	M7584	15900
M7321.4	2084	M7349.15	1832	M7396	1584	M7588	15896
M7321.42	2082	M7349.2	1840	M7397	1568	M7596	15880
M7321.5	2080	M7349.3	1838	M7397.5	1570	M7604	15868
M7321.7	2152	M7351	1848	M7399	1564	M7608	15864
M7321.74	2164	M7351.5	1820	M7399.2	1566.1	M7610	15860
M7321.77	2148	M7352.4	1804	M7399.5	1566	M7612	15856
M7321.8	2166	M7353	1816	M7400	1560	M7613	15854
M7321.9	2160	M7354	1812	M7401	1556	M7614	15852
M7321.94	2156	M7355	1808	M7402	1552	M7616	15848
M7322	2136	M7357	1800	M7420	16198	M7617	15844
M7322.6	2132	M7358	1788	M7420.01	16198.1	M7618	15840
M7322.8	2140	M7358.4	1792	M7422	16196	M7622	15836
M7323	2092	M7358.41	1796	M7428	16192	M7626	15832
M7323.2	2096	M7359	1784	M7430	16188	M7630	15828
M7323.21	2098	M7360	1780	M7434	16172	M7634	15824
M7323.24	2100	M7360.4	1776	M7435.5	16170.3	M7636	15820
M7323.36	2120	M7360.5	1740	M7436	16170.4	M7640	15812
M7323.4	2116	M7360.6	1736	M7438	16170.35	M7642	15798
M7323.44	2124	M7360.7	1732	M7440	16170.25	M7643	15784
M7323.5	2104	M7360.8	1724	M7440.1	16170.26	M7650	15786
M7323.6	2128	M7360.85	1730	M7470	16166	M7651	15788
M7323.7	2112	M7360.9	1728	M7471	16167	M7652	15790
M7323.8	2108	M7361	1692	M7472	16169	M7653	15792
M7324	2004	M7361.2	1726	M7472.01	16169.1	M7653.1	15792.2
M7324.4	2000	M7361.4	1720	M7472.02	16169.2	M7653.2	15792.4
M7324.5	1996	M7362	1696	M7473	16169.3	M7654	15794
M7324.6	1992	M7362.5	1722	M7474	16169.7	M7660	15796
M7324.7	1988	M7363.6	1704	M7474.01	16169.8	M7670	15776
M7325	1976	M7363.7	1712	M7478	16169.91	M7674	15768
M7325.4	1980	M7363.8	1708	M7479	16169.92	M7675	15761.3
M7326	1984	M7364	1716	M7480	16170	M7676	15761.4

CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

Inter.	— U.S.	Inter.	— U.S.	Inter.	— U.S.	Inter.	— U.S.
M7676.5	15761.35	M7870	174	M8051.5	354	M8210	15289
M7677	15761	M7875	180	M8052	360	M8211	15283
M7677.1	15761.1	M7876	184	M8053	356	M8212	15282
M7677.5	15761.2	M7876.1	188	M8054	372	M8214	15280
M7677.51	15761.21	M7884	196	M8054.2	376.5	M8216	15281
M7678	15760	M7885	192	M8054.5	376	M8217	15281.1
M7679	15587	M7885.1	193	M8054.6	379	M8220	15272
M7679.4	15584.45	M7890	194	M8054.7	380.5	M8226	15268
M7679.41	15584.46	M7902	15588	M8056	384	M8232	15260
M7679.5	15744.2	M7902.5	195	M8056.2	384.5	M8346	4964, 4968
M7679.51	15744.21	M7903	15590	M8056.5	385	M8347	4962
M7680	15744.26	M7904	15589	M8057	386	M8348	4960
M7680.1	15744.27	M7910	15585	M8057.6	456	M8350	4972
M7685	15744.51	M7920	195.5	M8057.8	456.5	M8351	4974
M7685.1	15744.52	M7982	15744.45	M8058	364	M8360	4976
M7685.2	15744.53	M7982.1	15744.4	M8059	366	P3196	20288
M7686	15744.6	M7982.11	15744.41	M8060	368	P3197.5	20280
M7686.1	15744.61	M7982.2	15744.36	M8062	15520	P3199.5	20284
M7700	15744	M7982.3	15745.15	M8063	15525	P3316	20215
M7703	15740	M7982.31	15745.16	M8063.5	15526	P3316.1	20095
M7706	162	M7982.35	15745.2	M8064	15516	P3316.3	20213
M7707	161	M7982.351	15745.21	M8065	15442.7	P3316.8	20093.56
M7708	160	M7982.4	15745	M8066	15442.5	P3316.82	20093.55
M7709	156	M7982.41	15745.1	M8067	15442	P3319	20093.8
M7709.4	148	M7985	15584	M8068	15441.6	P3319.3	20093.6
M7709.41	152	M7986	15582	M8069	15441	P3319.4	20093.65
M7711	140	M8006	15569	M8070.5	15441.3	P3319.5	20093.66,
M7711.5	132	M8007	15568	M8076	15440.5	P3319.5	20093.7
M7712	136, 15717	M8008	15566.55	M8096	15440	P3319.78	20093.5
M7713	108	M8008.1	15566.2	M8102	15432	P3320	20092
M7713.1	112	M8008.2	15566	M8108	15428	P3320.5	20087
M7714	124, 15720	M8009	15564	M8120	15424	P3320.51	20087.1
M7714.2	128, 15720.1	M8009.5	15564.1	M8125	15420	P3321	20088
M7716	104	M8010	15561.1	M8126	15416	P3321.1	20088.1
M7738	100	M8010.5	15561.12	M8128	15408	P3326	20096
M7746	56	M8011	15562	M8129	15410	P3327	20100
M7748	76	M8011.5	15563	M8130	15412	P3327.4	20103
M7750	80	M8012	15562.2	M8150	15348	P3328	20104
M7752	60	M8012.1	15562.21	M8153	15352	P3328.5	20105
M7752.1	64	M8013	15561.4	M8157	15353	P3332	20106
M7753	68	M8015	15561	M8157.1	15353.1	P3333	20107
M7753.1	72	M8021	15560	M8157.5	15353.5	P3334	20116
M7754	84	M8022	15553.15	M8159	15356	P3336	20108
M7754.3	92	M8024	15553.1	M8169	15345	P3337	20164
M7754.5	96	M8026	15553.05	M8169.1	15345.01	P3337.1	20176
M7778	44	M8028	15553	M8172	15344	P3337.3	20180
M7778.1	48	M8030	15552	M8172.5	15340	P3337.6	20168
M7788	36	M8036	15532	M8173	15336	P3337.61	20172
M7794	16	M8037.5	15530	M8176	15328	P3337.85	20163
M7796	20	M8038	15528	M8178	15332	P3337.89	20162
M7800	12	M8041	316, 322	M8180	15320	P3338.2	20160
M7802	8	M8041.5	15522	M8182	15324	P3338.34	20157
M7804	4	M8042	320	M8183	15317	P3338.4	20156
M7806	2	M8043	15538	M8183.1	15317.5	P3338.9	20153
M7810	162.3	M8044.1	322.1	M8186	15316	P3339	20152
M7828	162.4	M8045	323	M8188	15312	P3341	20151
M7830	164	M8046	324	M8190	15308	P3342	20148
M7831	162.5	M8047	326	M8192	15304	P3342.73	20146
M7832	162.7	M8048	340	M8193	15303	P3342.74	20147
M7840	165	M8049	344	M8194	15302	P3343.3	20145
M7841.5	166	M8049.3	345	M8194.2	15289.3	P3346	20132
M7842	168	M8049.5	346	M8194.8	15289.7	P3347	20136
M7846	170	M8050	348	M8195	15289.1	P3347.1	20140
M7847	172.5	M8050.5	349	M8196	15300	P3347.3	20144
M7848	172	M8051	352	M8208	15284	P3347.95	20131

CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

Inter.	— U.S.	Inter.	— U.S.	Inter.	— U.S.	Inter.	— U.S.
P3348	20130.5	P3381.68	20065.5	P3474.1	19828	P3526.5	19800
P3348.1	20124	P3382	20076	P3474.6	19829	P3526.6	19750
P3348.3	20128	P3382.1	20080	P3474.605	19829.1	P3526.8	19752
P3348.35	20122	P3382.15	20080.1	P3476	19832	P3526.9	19768
P3348.4	20120	P3382.3	20082	P3476.1	19836	P3527	19766
P3348.43	20212.6	P3382.31	20082.1	P3482	19840	P3527.1	19765
P3348.44	20212.5	P3382.362	20082.2	P3482.1	19844	P3527.6	19729.2
P3348.46	20212	P3382.4	20083	P3483	19848	P3527.66	19728
P3348.5	20208	P3382.41	20083.1	P3483.1	19852	P3527.7	19728.2
P3348.6	20204	P3382.421	20084	P3483.2	19856	P3527.72	19728.4
P3348.65	20203	P3382.422	20084.1	P3483.21	19860	P3527.73	19728.6
P3348.8	20200	P3382.425	20083.2	P3490	19864	P3527.74	19729.4
P3348.92	20199	P3382.426	20083.3	P3490.2	19872	P3527.8	19728.8
P3348.93	20198	P3383	20068	P3515	19590	P3527.82	19729
P3349	20196	P3383.1	20072	P3520	19594	P3527.9	19732
P3350	20194	P3383.5	20067	P3520.5	19593	P3528	19734
P3350.2	20194.5	P3383.6	20067.2	P3521	19606	P3529	19736
P3350.4	20194.6	P3404	19996	P3521.005	19592	P3529.3	19738
P3350.5	20195	P3404.2	19995.3	P3521.01	19591	P3529.5	19528
P3351	20195.5	P3404.3	19995.1	P3521.13	19607	P3530	19532
P3351.1	20195.51	P3404.6	19993	P3521.15	19609	P3530.6	19520
P3352	20194.7	P3404.9	19995	P3521.18	19619	P3530.8	19521
P3356	20192	P3405	19992	P3521.2	19618	P3530.9	19523
P3357	20188	P3405.5	19988	P3521.3	19622	P3531	19516
P3357.5	20184	P3405.6	19986	P3521.35	19626	P3531.3	19544
P3358	20112	P3405.85	19985	P3521.37	19627	P3531.5	19546
P3358.5	20110	P3406	19984	P3521.4	19628	P3532	19526
P3359	20000	P3406.5	19984.5	P3521.54	19540	P3532.2	19512
P3359.58	20012.6	P3407	19980	P3521.6	19552	P3532.25	19514
P3359.62	20012.5	P3416	19640	P3521.66	19548	P3532.3	19524
P3359.63	20012.51	P3420	19720	P3521.7	19550	P3534	19492
P3359.65	20012.3	P3420.5	19723	P3521.72	19550.5	P3534.2	19488
P3359.98	20012.14	P3424	19648	P3521.8	19554.5	P3534.22	19488.2
P3359.99	20012.15	P3426	19656	P3521.83	19554	P3534.24	19488.4
P3360	20004	P3427	19644	P3521.9	19555	P3534.3	19488.6
P3360.1	20008	P3427.1	19644.2	P3521.905	19556	P3535.42	19484.1
P3360.4	20010	P3427.2	19660	P3521.91	19556.2	P3535.666	19483.5
P3360.41	20012	P3427.5	19658	P3521.915	19556.4	P3535.668	19483.6
P3360.415	20012.1	P3428	19664	P3521.92	19556.6	P3535.72	19485.1
P3361	20102	P3429	19668	P3521.922	19556.7	P3535.78	19485
P3368	20016	P3430	19672	P3521.925	19557	P3535.91	19486.1
P3368.1	20020	P3432	19676	P3521.93	19556.8	P3535.94	19486
P3368.2	20013.5	P3432.5	19684	P3522	19574	P3536.5	19496
P3368.81	20021	P3432.51	19680	P3522.3	19570	P3536.72	19498
P3368.82	20021.1	P3433	19687	P3523	19566	P3537.4	19483.2
P3370	20013	P3434	19690	P3523.2	19578	P3537.41	19483.25
P3372.1	20014	P3435	19696	P3523.22	19578.2	P3537.432	19483.3
P3374	20024	P3435.2	19702	P3523.23	19578.4	P3537.435	19483.31
P3374.1	20028	P3435.4	19693	P3523.24	19578.6	P3537.6	19504
P3375	20029	P3435.6	19699	P3523.25	19578.8	P3537.7	19508
P3378	20032	P3442	19708	P3523.26	19579	P3537.8	19445
P3378.1	20036	P3448.5	19717	P3523.4	19582	P3538	19460
P3378.19	20028.5	P3452	19779	P3523.5	19587	P3540.7	19483
P3378.2	20028.55	P3456	19804	P3523.53	19608	P3540.75	19483.1
P3378.3	20023	P3457.4	19762	P3523.55	19611	P3540.8	19482
P3378.4	20022	P3457.41	19762.1	P3523.58	19612	P3540.85	19482.1
P3378.5	20022.5	P3458	19754	P3523.6	19610	P3541	19480.5
P3379	20056	P3458.1	19754.1	P3523.8	19586	P3541.3	19480
P3379.1	20060	P3459	19778	P3524	19588	P3545.5	19476
P3379.92	20038	P3465	19810	P3524.5	19724	P3545.55	19476.2
P3381	20048	P3466	19812	P3525.5	19726	P3545.7	19476.4
P3381.1	20052	P3468.1	19815	P3525.6	19727	P3545.75	19476.6
P3381.18	20046, 20053	P3468.2	19815.1	P3526	19742	P3548	19473
P3381.19	20054	P3473.9	19820	P3526.2	19746	P3548.2	19473.3
P3381.652	20065.1	P3474	19824	P3526.25	19753	P3548.3	19473.6

CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

Inter.	— U.S.
P3551	19400.2
P3551.2	19400
P3551.4	19400.1
P3553	19400.4
P3553.3	19400.3
P3553.6	19400.5
P3560.5	19389
P3560.55	19389.2
P3560.6	19389.4
P3560.65	19389.6
P3562.5	19386
P3562.55	19386.3
P3562.6	19386.6
P3566	19379.5
P3567	19379
P3568	19376
P3569	19381
P3570	19370
P3571.5	19373
P3571.52	19373.5
P3571.72	19367
P3571.8	19364
P3572	19355
P3573	19358
P3573.6	19352
P3574	19342
P3575	19353
P3575.4	19349
P3575.6	19334
P3575.8	19338
P3576	19330
P3576.6	19405
P3576.8	19415
P3577	19410
P3577.1	19420
P3577.2	19412
P3577.3	19421.1
P3577.4	19422
P3577.44	19442
P3577.46	19558
P3577.5	19562
P3577.6	19437
P3577.64	19432
P3577.68	19425
P3577.7	19430
P3577.8	19427.5
P3577.84	19427
P3577.86	19431
P3578	19326
P3578.3	19292
P3578.4	19296
P3580.6	19318
P3580.7	19322
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P3580.93	19310
P3580.94	19312
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P3580.98	19290
P3581.218	19289
P3581.228	19289.5
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P3581.345	19284
P3581.35	19286
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P3586	19264
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P3600.3	19202
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P3603.6	19193
P3604	19192
P3605	19188
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P3607	19197
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P3609.2	19186.2
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P3612.57	19151.7
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P3614	19160
P3614.4	19162
P3614.5	19163
P3615	19168
P3615.5	19164
P3616	19172
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P3618.385	19175
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P3627.908	19140.1
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P3633.9	19133.2
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P3635	19096
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P3635.41	19116
P3635.42	19114
P3635.45	19120
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P3635.723	19122.2
P3635.731	19122.3
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P3642	19090.5
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P3643.01	19088
P3643.02	19088.2
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P3648	19087
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P3714.16	18944
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P3714.206	18953
P3714.21	18953.5
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P3714.24	18960
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P3714.266	18976
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P3714.32	18973
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P3714.965	18930.3
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P3715.21	18930.1
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P3716.722	18909.6
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P3716.737	18909.75
P3716.748	18908.6
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P3716.753	18906
P3716.78	18909.85
P3716.79	18909.9
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P3717	18892
P3717.31	18887.7
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P3717.74	18892.31
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P3717.961	18887.53
P3717.962	18887.54
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P3824.25	18694
P3824.34	18749.8
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P3824.41	18749.2
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P3871	18624
P3871.3	18629
P3871.6	18628.5
P3871.63	18628
P3871.7	18626
P3871.71	18626.1
P3874	18620
P3876	18600
P3878	18596
P3880	18604
P3880.5	18592
P3881	18588
P3881.4	18587.6
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P3881.6	18587.8
P3882	18572
P3882.5	18587
P3882.51	18587.1
P3884	18576
P3886	18580
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P3887	18586
P3887.1	18586.1
P3888	18584
P3891.2	18569.1
P3891.3	18569
P3892	18556
P3892.5	18568
P3893	18564
P3893.5	18560
P3894	18536
P3895.22	18559.1
P3895.28	18539
P3895.3	18538
P3895.35	18537
P3895.85	18558
P3896.15	18535.7
P3896.2	18535.5
P3897	18532
P3898	18533
P3898.1	18533.5
P3898.5	18532.5
P3898.51	18532.51
P3899	18534
P3899.1	18534.5
P3905.365	18535.1
P3906.4	18527.5
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P3907.832	18500.3
P3907.833	18500.4
P3907.834	18500.5
P3908	18500
P3909.1	18500.6
P3909.2	18500.7
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P3909.6	18502
P3909.71	18503
P3909.72	18503.5
P3909.81	18526
P3909.815	18524.5
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P3909.831	18516
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P3911.62	18527.1
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P3934	18494
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P3954.9	18453.2
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P3960.4	18388
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P3966.5	18383
P3966.51	18383.1
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P3972.51	18374
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P3978	18335
P3979	18334.7
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P3979.45	18334.62
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P4028	18268
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P4045.24	18285.1
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P4045.3	18284
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P4062	18216
P4064	18212
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P4624.4	13788
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P4659.7	13893
P4660.15	13896

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P4660.4	13900	P4660.94	13906	P4675.5	13624	P4701.2	13700
P4660.48	13901	P4660.941	13907	P4676	13620	P4701.22	13704
P4660.481	13901.1	P4661	13944	P4676.6	13628	P4701.25	13712
P4660.5	13902	P4661.5	13948	P4677	13632	P4701.7	13718
P4660.6	13904	P4661.6	13949	P4678	13640	P4702	13721
P4660.61	13921.5	P4661.7	13950	P4679	13636	P4703	13722
P4660.611	13921.51	P4662	13952	P4683	13656	P4704	13725
P4660.614	13921.3	P4663.2	13960.05	P4684	13658	P4704.1	13725.5
P4660.615	13921.31	P4663.25	13960.17	P4685	13659	P4704.2	13726
P4660.617	13921.2	P4663.26	13960.18	P4686	13660	P4705	13728
P4660.618	13921.21	P4663.27	13960.19	P4687	13661	P4706	13732
P4660.62	13921.4	P4663.3	13960.2	P4688	13662	P4708	13736
P4660.621	13921.41	P4663.4	13960.1	P4690	13588	P4708.1	13740
P4660.63	13922	P4663.5	13960.13	P4692.2	13668	P4709	13748
P4660.635	13922.1	P4663.65	13960.62	P4692.21	13672	P4709.1	13749
P4660.64	13908	P4664	13960	P4692.4	13664	P4709.3	13750
P4660.66	13909	P4664.5	13961.9	P4693	13676	P4709.5	13746
P4660.67	13909.5	P4665	13962.5	P4693.1	13678	P4710	13747.5
P4660.675	13921.1	P4665.2	13962	P4693.4	13677.2	P4714	13752
P4660.676	13921.11	P4665.4	13962.9	P4694	13680	P4716	13756
P4660.7	13912	P4666.5	13964	P4697	13682	P4724	13760
P4660.8	13916	P4670	13592	P4700	13684	P4725	13764
P4660.9	13919	P4672	13596	P4700.5	13688	P9584	20193
P4660.92	13918	P4672.2	13600	P4700.6	13692	P9690.4	18528
P4660.93	13920	P4674	13604	P4701	13696		