



# PUB. 114

# LIST OF LIGHTS

RADIO AIDS AND FOG SIGNALS

## 2019

BRITISH ISLES, ENGLISH CHANNEL AND  
NORTH SEA

### **IMPORTANT**

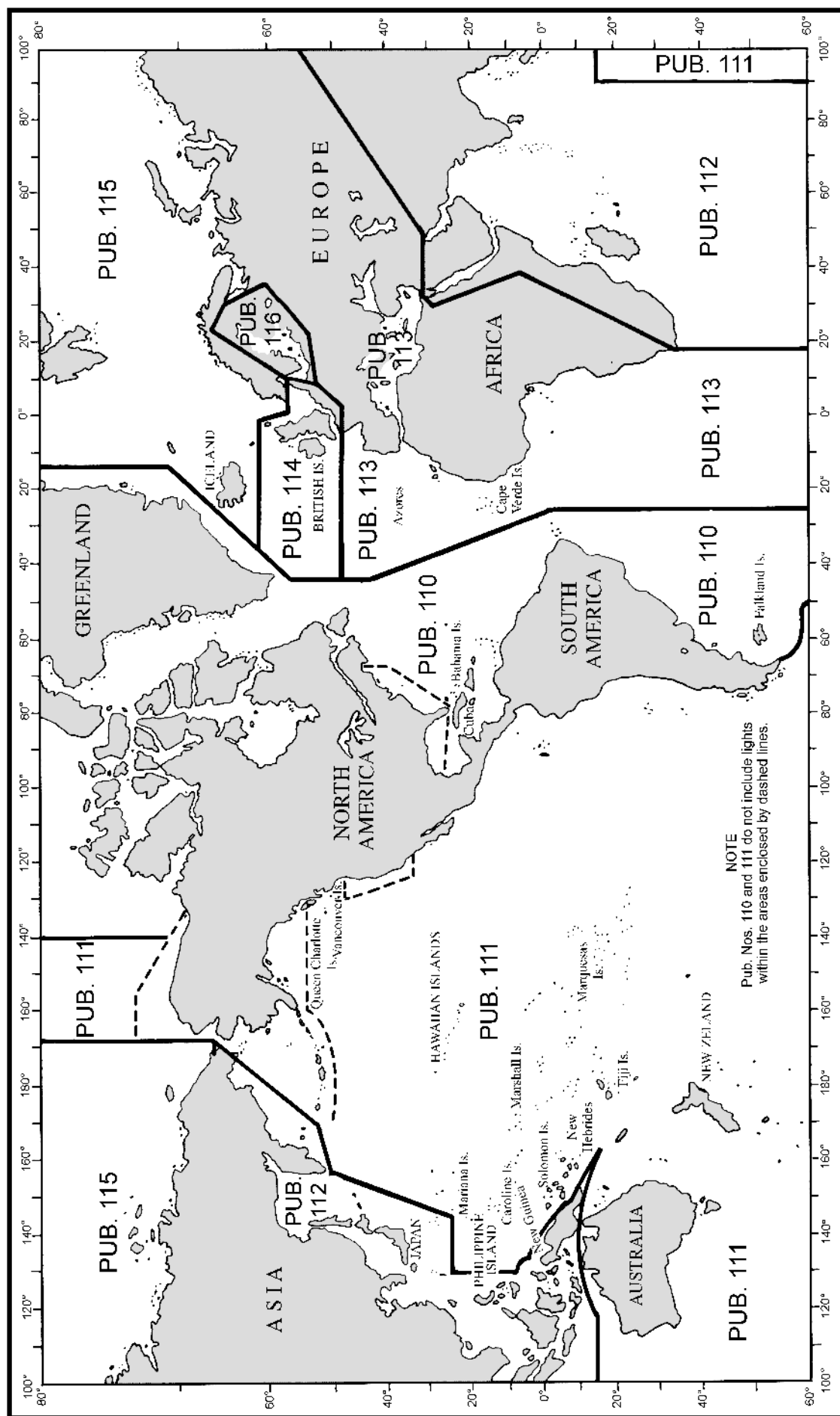
**THIS PUBLICATION SHOULD BE CORRECTED  
EACH WEEK FROM THE NOTICE TO MARINERS**



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

© COPYRIGHT 2019 BY THE UNITED STATES GOVERNMENT.  
NO COPYRIGHT CLAIMED UNDER TITLE 17 U.S.C.

# LIST OF LIGHTS LIMITS NATIONAL GEOSPATIAL-INTELLIGENCE AGENCY



**114**

**LIGHTS**

**BRITISH ISLES**

**2019**

## 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 2019 edition of Pub. 114, List of Lights, Radio Aids and Fog Signals for the British Isles, English Channel and North Sea, cancels the previous edition of Pub. 114.

This edition contains information available to the National Geospatial-Intelligence Agency (NGA) up to 4 May 2019, including Notice to Mariners No. 18 of 2019.

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 2019 |         |         |         | YEAR 2020 |         |         |         |
|-----------|---------|---------|---------|-----------|---------|---------|---------|
| 1.....    | 14..... | 27..... | 40..... | 1.....    | 14..... | 27..... | 40..... |
| 2.....    | 15..... | 28..... | 41..... | 2.....    | 15..... | 28..... | 41..... |
| 3.....    | 16..... | 29..... | 42..... | 3.....    | 16..... | 29..... | 42..... |
| 4.....    | 17..... | 30..... | 43..... | 4.....    | 17..... | 30..... | 43..... |
| 5.....    | 18..... | 31..... | 44..... | 5.....    | 18..... | 31..... | 44..... |
| 6.....    | 19..... | 32..... | 45..... | 6.....    | 19..... | 32..... | 45..... |
| 7.....    | 20..... | 33..... | 46..... | 7.....    | 20..... | 33..... | 46..... |
| 8.....    | 21..... | 34..... | 47..... | 8.....    | 21..... | 34..... | 47..... |
| 9.....    | 22..... | 35..... | 48..... | 9.....    | 22..... | 35..... | 48..... |
| 10.....   | 23..... | 36..... | 49..... | 10.....   | 23..... | 36..... | 49..... |
| 11.....   | 24..... | 37..... | 50..... | 11.....   | 24..... | 37..... | 50..... |
| 12.....   | 25..... | 38..... | 51..... | 12.....   | 25..... | 38..... | 51..... |
| 13.....   | 26..... | 39..... | 52..... | 13.....   | 26..... | 39..... | 52..... |

# TABLE OF CONTENTS

|  |                     |
|--|---------------------|
| Index Chartlet . . . . .   | Back of front cover |
| Preface and Record of Corrections Published in Weekly Notice to Mariners . . . . . | I                   |
| Introduction . . . . .   | V                   |
| IALA Buoyage System . . . . .  | VI                  |
| Maritime Safety Website . . . . .  | VII                 |
| Description (Lights, Buoys, RACONS, RAMARKs) . . . . .                             | IX                  |
| Characteristics of Lights . . . . .  | X                   |
| Nomenclature of Lights . . . . .   | XII                 |
| Lightships, Superbuoys, and Offshore Light Stations . . . . .                      | XIV                 |
| Fog Signals . . . . .  | XVI                 |
| Visibility Table . . . . .   | XVII                |
| Conversion Table — Feet to Whole Meters . . . . .                                  | XVIII               |
| Radiobeacons . . . . .   | XIX                 |
| Description (Radiobeacons) . . . . .   | XXIV                |
| Table of Symbols . . . . .   | XXV                 |
| Differential Global Positioning System (DGPS) . . . . .                            | XXVIII              |
| Description (Differential GPS Stations) . . . . .                                  | XXIX                |

List of Lights for:

## Section 1

### South Coast of England

#### Including Scilly Isles

|                                |   |
|--------------------------------|---|
| England-Scilly Isles . . . . . | 1 |
| England-South Coast . . . . .  | 1 |

## Section 2

### East Coast of England

#### Including Thames River and River Humber

|  |            |
|--|------------|
| England-East Coast . . . . .                                 | 19, 21, 28 |
| England-Thames River Approaches . . . . .                    | 20         |
| England-Thames River Approaches From Northeastward . . . . . | 20         |
| England-River Humber Approaches . . . . .                    | 25         |
| England-River Humber . . . . .                               | 26         |

## Section 3

### East and North Coasts of Scotland

#### Including Orkney and Shetland Islands

|                                     |        |
|-------------------------------------|--------|
| Scotland-East Coast . . . . .       | 33     |
| Scotland-North Coast . . . . .      | 43, 52 |
| Scotland-Orkney Islands . . . . .   | 43     |
| Scotland-Shetland Islands . . . . . | 47     |

## Section 4

### West Coast of Scotland

#### Including The Hebrides and Firth of Clyde

|                                   |            |
|-----------------------------------|------------|
| Scotland-West Coast . . . . .     | 54, 60, 70 |
| Scotland-Hebrides . . . . .       | 57         |
| Scotland-Firth of Clyde . . . . . | 65         |

## Section 5

### West Coast of England and North and West Coasts of Wales

#### Including Bristol Channel

|  |            |
|--|------------|
| England-West Coast . . . . .             | 73, 75, 91 |
| England-West Coast-Isle of Man . . . . . | 74         |

|                                   |    |
|-----------------------------------|----|
| Wales-North and West Coasts ..... | 79 |
| Wales-West Coast .....            | 80 |
| Wales-Bristol Channel .....       | 84 |
| England-Bristol Channel .....     | 88 |

## Section 6

### Ireland and Northern Ireland

|  |     |
|--|-----|
| Ireland-South Coast .....                      | 93  |
| Ireland-East Coast .....                       | 95  |
| Ireland and Northern Ireland-East Coast .....  | 98  |
| Northern Ireland-East and North Coasts .....   | 102 |
| Northern Ireland and Ireland-North Coast ..... | 103 |
| Ireland-West Coast .....                       | 105 |

## Section 7

### North Coast of France and Channel Islands

|                              |          |
|------------------------------|----------|
| France-North Coast .....     | 112, 121 |
| Channel Islands (U.K.) ..... | 118      |

## Section 8

### North Sea-France, Belgium and The Netherlands

#### Including Westerschelde

|   |     |
|---|-----|
| France-North Sea .....                          | 130 |
| Belgium-North Sea .....                         | 132 |
| The Netherlands-North Hinder To Goeree .....    | 134 |
| The Netherlands-Entrance To Westerschelde ..... | 135 |
| The Netherlands-Westerschelde .....             | 136 |
| Belgium-Schelde .....                           | 138 |
| The Netherlands-North Sea .....                 | 140 |

## Section 9

### North Sea-Germany and Denmark

|                         |     |
|-------------------------|-----|
| Germany-North Sea ..... | 148 |
| Denmark-North Sea ..... | 157 |

## Section 10

### Radiobeacons

|                       |     |
|-----------------------|-----|
| United Kingdom .....  | 163 |
| Channel Islands ..... | 163 |
| Germany .....         | 163 |
| Denmark .....         | 163 |

## Section 11

### Differential GPS Stations

|                           |     |
|---------------------------|-----|
| Denmark .....             | 165 |
| United Kingdom .....      | 165 |
| Republic of Ireland ..... | 165 |

|   |     |
|---|-----|
| Index-Lights .....  | 167 |
| Index-Radiobeacons .....                                  | 175 |
| Index-Differential GPS Stations .....                     | 177 |
| Cross Reference-International vs. U.S. Light Number ..... | 179 |

## 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

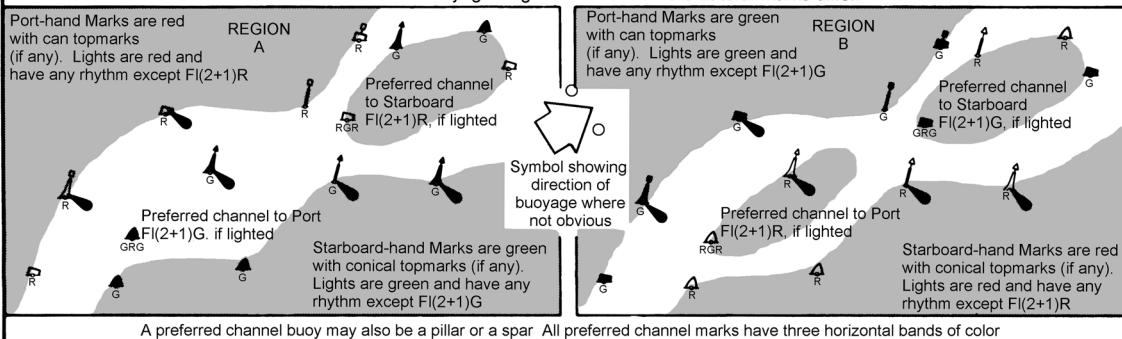


# Buoys and Beacons IALA\* Buoyage System

Where in force, the IALA System applies to all fixed and floating marks and occasionally lighthouses, sector lights, range marks, lightships and LANTY'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.

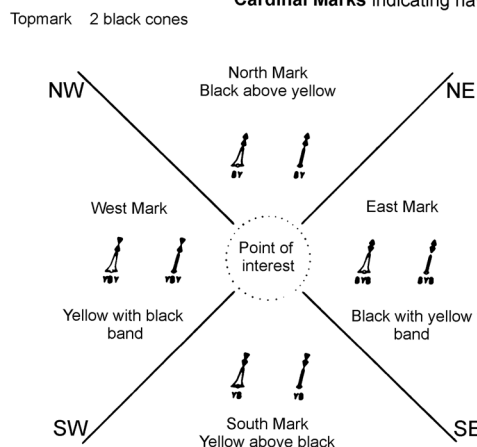
**Lateral Marks** (used in conjunction with a conventional direction of buoyage) are generally for well-defined channels. There are two international Buoyage Regions-A and B-where Lateral marks differ.



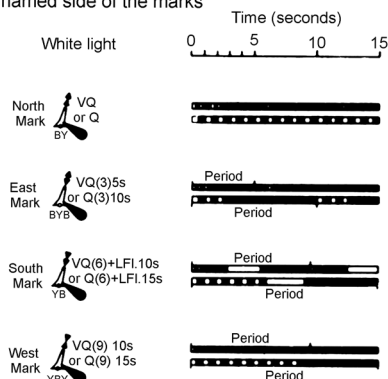
All marks other than Lateral Marks are the same in REGIONS A and B

## UNLIGHTED MARKS

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



## LIGHTED MARKS



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

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



White light

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

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




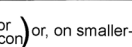
White light

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

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



Yellow light

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

Beacon towers are charted:  (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 WEB SITE**

The National Geospatial-Intelligence Agency (NGA) Maritime Safety Web site 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 Notice to Mariners, Publications, Broadcast Warnings, Office of Naval Intelligence (ONI) Reports, Anti-Shipping Activity Messages (ASAMs), Arctic Maritime Safety Information (AMSI) Reports, Mobile Offshore Drilling Units (MODUs), Product Catalog and Miscellaneous Products. 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, Radar Navigation and Maneuvering Board Manual.

The Maritime Safety Website can be accessed via the NGA Homepage ([www.nga.mil](http://www.nga.mil)) under the Products and Services link or directly at <https://msi.nga.mil/NGAPortal/MSI.portal>. Any questions concerning the Maritime Safety Web site 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](mailto: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








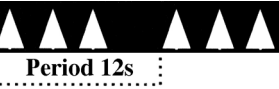


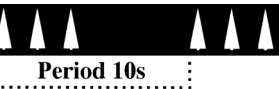


Where the lights of different countries intermingle in the list they are distinguished by the following letters:











|        |                |
|--------|----------------|
| (Bm.)  | Belgium        |
| (F.)   | Norway         |
| (G.)   | Germany        |
| (N.)   | Netherlands    |
| (U.K.) | United Kingdom |

Other abbreviations:

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

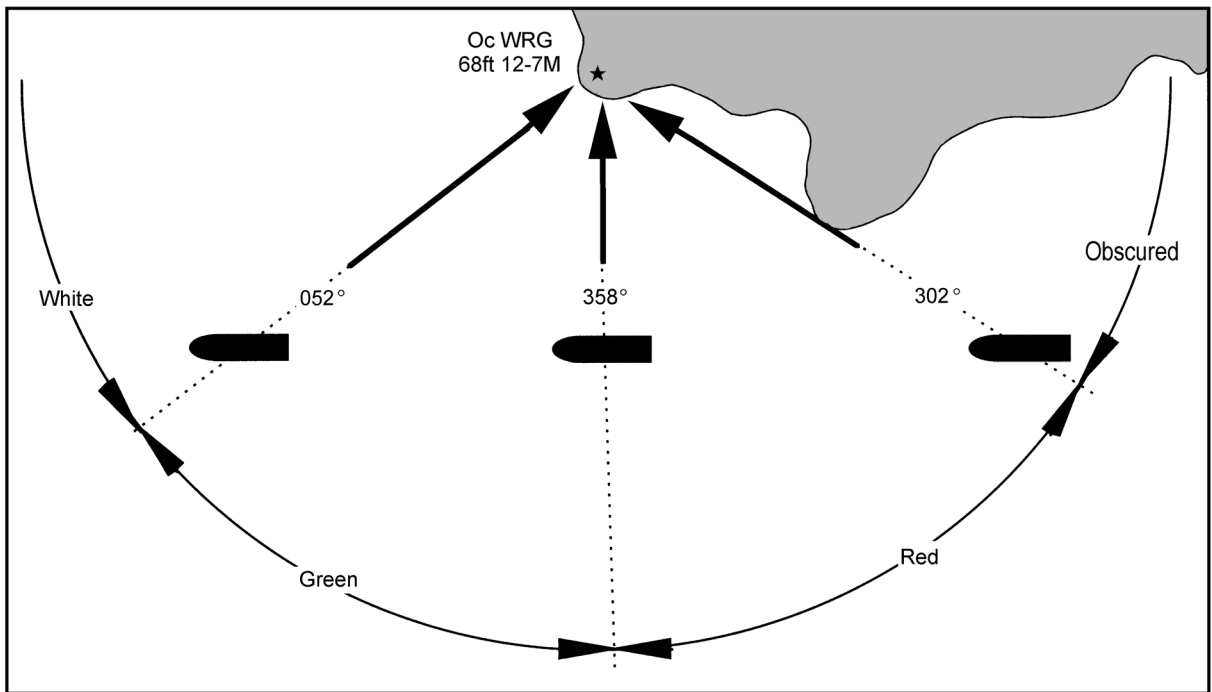
*Aeromarine lights*—marine-type lights for which part of the beam is deflected to an angle of 10 to 15 degrees above the horizon to facilitate use by aircraft.

*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.



## LIGHTSHIPS, SUPERBUOYS, AND OFFSHORE LIGHT STATIONS

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."

The following regulations have been established respecting the several lightships on the coasts of the *British Isles*:

A white riding light is exhibited from the forestay of each lightship, at a height of 6 feet (1.8 meters) above the rail, for the purpose of showing in which direction the vessel is riding when at her station.

If from any cause a lightship is unable to exhibit her usual characteristic lights while on station, the riding light only will be shown.

During fog or low visibility, on the near approach of traffic to a lightship the bell will be rung rapidly during the silent intervals between each sounding of the vessel's prescribed station fog signal until all risk of collision is past.

At lightships where a hand horn is used, the interval will be shortened as vessels approach and, should a vessel come dangerously close, the sound will be continuous until she has passed.

When a lightship is out of position having been driven from her proper station or under tow, and is no use as a guide to shipping, the characteristic light will not be shown and the fog signal will not be sounded.

The following signals will be made:

By day—two large black balls will be shown, on forward and one aft, and the International Code signal "LO" indicating "I am not in my correct position" will be hoisted where it may best be seen.

By night—a fixed red light will be shown at bow and

stern of the vessel and red and white flares will be shown simultaneously every 15 minutes or at more frequent intervals on the near approach of traffic; the flares will be shown from where they can best be seen at a distance of about 10 feet (3 meters) apart in a horizontal line. If the use of flares is impracticable, a red light and a white light will be displayed simultaneously for about a minute.

Lightship under tow by day—the International Code signal "LO" indicating "I am not in my correct position" will be hoisted where it can best be seen. In accordance with Rule 24 of the International Regulations for Preventing Collisions at Sea 1972, a diamond shape will be displayed where it can best be seen.

Lightship under tow at night—sidelights and a sternlight will be exhibited in accordance with Rule 24 of the International Regulations for Preventing Collisions at Sea 1972.

In fog or low visibility, lightships out of position will give the fog signal required for a vessel at anchor.

It should be remembered that lightships, through collisions or other causes, are liable to be withdrawn for repairs without notice, and in some cases may not be replaced by relief vessels.

The name of the station is painted on the sides of the vessel or float, but relief vessels may carry the word "Relief" or "Reserve." A lightship under way shows the same lights and makes the same sound signals as other vessels under way.

Some lightships have been replaced by superbuoys.

Oil and gas permanent platforms and drilling rigs are marked by:

Mo(U) 15s 15M

Horn Mo(U) 30s

Mo(U)R 15s 3M may mark projections.

They may be encountered anywhere in the waters covered by this volume.

*Belgian, Dutch, German, and Danish* lightships carry a white light on the forestay.

*French* lightships, when out of position, discontinue their characteristic lights and fog signals and exhibit in their place the following signals:

By day—the International Code signal "LO" and two black balls, one forward and one aft.

By night—two red lights, one forward and one aft. Also two flare-ups, one white and one red, will be burned simultaneously every 15 minutes.

*Dutch and Belgian* lightships, when out of position, discontinue their characteristic lights and fog signals.

By day—the distinguishing mastheads marks are struck, two black balls are shown, one forward and one aft, and the International Code signal "LO" is hoisted.

By night—two red lights, one forward and one aft, are shown; also one red and one white flare simultaneously or



one red and one white light every 15 minutes.

*German* lightships, when out of position, by day hoist the International Code signal “LO”, two red flags, one forward and one aft, and the distinguishing masthead mark is lowered; by night two red lights are shown, one forward and one aft; in addition, at intervals of less than 15 minutes, one white and one red light are displayed horizontally 9 feet (3 meters) apart from the deck for a period of one minute. In fog only the bell fog signals prescribed in the navigation regulations are sounded. If a vessel is seen standing in danger a gun will be fired (groups of 2 reports at intervals of 3 minutes), the bell will be rung and signals made accordance with the International Code of Signals. Lightships are liable to be driven from their stations by ice, but are replaced as soon as circumstances allow.

*Danish* lightships—lights are shown from 15 minutes after sunset to 15 minutes before sunrise. When out of position, they discontinue their characteristic lights and fog signals. If they have drifted out of position, they will exhibit the following signals:

By day—two black balls, one forward and one aft. The International Code Signal “LO” will be hoisted;

By night—two red lights will be shown, one forward and one aft; also, one red and one white light will be shown simultaneously over the gunwale at least every 15 minutes.

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

It should be remembered that lightships are liable to be withdrawn without notice, and may not be replaced by relief vessels.

Should the mechanical fog signals be disabled, a hand fog horn is used. Should a vessel be seen standing into danger the Morse letter U(••–) will be made by siren or flashing light, and the International Code flag “U” hoisted. When lightships can furnish pilots they display at the masthead a flag, upper half white, lower half red. By night they answer pilot signals by burning a flare.

Many radiobeacons within the European maritime area transmit only a carrier signal keyed to provide a Morse call-sign for identification of the station. The composition of signals is based on a one-minute duration. These radiobeacons operate individually and continuously instead of within a group (sequence) of beacons.

## DISTRESS SIGNALS

For lightships and lighthouses on islands or isolated rocks and offshore light structures in the *British Isles*:

(1) Light stations in the above categories are equipped with radiotelephones capable of transmitting messages to summon assistance for themselves or for vessels or aircraft they observe to be in distress, in accordance with recognized procedures. In addition to transmitting such messages, they may make use of one or more of the visual

distress signals indicated in paragraph (2). Light stations which are themselves in need of assistance will in any event make use of one or more of the visual distress signals in addition to the radiotelephone message.

### (2) Visual Distress Signals:

(a) a rocket or rockets throwing red stars. Each rocket preceded or accompanied by either a detonating signal or sound rocket—the whole signal repeated at regular intervals;

(b) a signal consisting of a square flag having above or below it a ball;

(c) the International Code Signal of distress (“NC” or “DZ”).

NOTE—a detonating signal has the following characteristics:

By night—on firing, a small yellowish-white flash and a small sharp report; on reaching zenith of trajectory (about 300 feet), a very large yellowish-white flash with a loud cracking report.

By day—as for night, but in addition a small puff of whitish smoke on firing and, on reaching zenith of trajectory, a large compact cloud of whitish smoke.

Reply from shore:

By day—orange smoke signal.

By night—white star rocket.

(3) Certain light stations under the jurisdiction of the Northern Lighthouse Board, which covers *Scotland* and the *Isle of Man*, have, in addition to radiotelephones, white star rockets to acknowledge a ship’s distress signal and to indicate that assistance has been summoned.

## DANGER SIGNALS

When from any lightship (and certain lighthouses) a vessel is seen standing into danger, the flag signal “NF” of the International Code, “You are running into danger,” or signal flag “U”, “You are standing into danger,” will be hoisted and kept flying until answered. In addition to the above flag signal, the lightship or lighthouse may fire a rocket sound signal, or a detonating signal, and repeat it at short intervals until observed by the vessel. The letter “U” in Morse flashed by lamp or sounded on a horn may also be used.

In the case of lightships the signal “PS”, “You should not come any closer,” may be used when a vessel is observed to be coming dangerously close.

Call Signals (not Distress)—Lightships and certain lighthouses wishing to attract the attention of a passing vessel will:

By day—hoist the appropriate International Code signal.

By night—make the call sign or letter “K” by signal light.

In the case of a lightship, white flare may also be exhibited. In fog or low visibility, when the signal cannot be used, the letter “K” may be made by hand horn.

*French* lights may be shown by day in poor visibility. The heights of structures are measured from the focal plane of the light on the ground.

## 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:

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;

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;

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;

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

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;

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) . . . . .   | <u>16.5</u>    |
| 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 opera-

tor, the condition of the ship's equipment, and the accuracy 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  $10^\circ$  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—multiply 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 1 1/4 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 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  $6^\circ$  for bearing.
- (vii) Determine whether bearing is direct or reciprocal.
- (viii) If the "north signal" is faint, use the "east signal," but add  $090^\circ$  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  $090^\circ$  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.

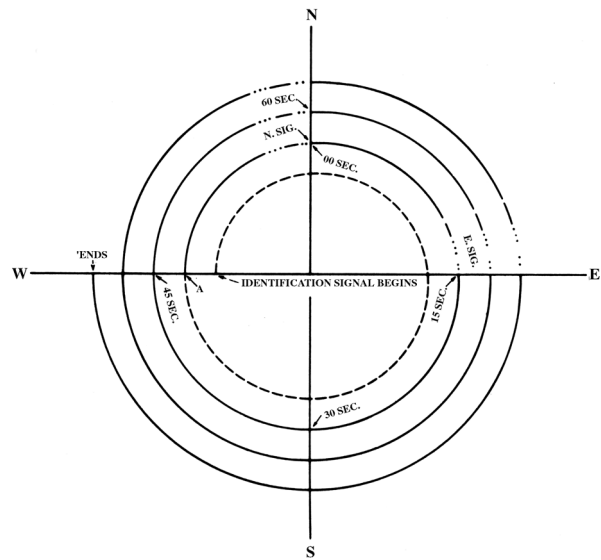
(A correction must, of course, be made for convergency; this should be applied as if the beacon were a shore radio direction-finder station.)

(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 reference 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** denotes 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

## South Coast of England Including Scilly Isles

| (1)<br>No.                  | (2)<br>Name and Location            | (3)<br>Position           | (4)<br>Characteristic  | (5)<br>Height | (6)<br>Range   | (7)<br>Structure  | (8)<br>Remarks   |
|-----------------------------|-------------------------------------|---------------------------|--|---------------|----------------|---|--|
| <b>ENGLAND-SCILLY ISLES</b> |                                     |                           |  |               |                |   |  |
| 4<br>A 0002                 | <b>Bishop Rock.</b>                 | 49° 52.4' N<br>6° 26.7' W | <b>Fl.(2)W.</b><br>period 15s<br>fl. 0.1s, ec. 2.2s<br>fl. 0.1s, ec. 12.6s                       | 144<br>44     | 20             | Gray round granite tower; 161.<br>Helicopter platform.                        | Visible 233°-236° and 259°-<br>204°.<br>Partially obscured 204°-211°.<br><b>AIS</b> (MMSI No 992351137).   |
|                             | RACON                               |                           | <b>T(—)</b>  |               | 18             |   | Azimuth coverage 254°-215°.<br>(3 & 10cm).   |
| 8<br>A 0006                 | Peninnis Head.                      | 49° 54.3' N<br>6° 18.2' W | <b>Fl.W.</b><br>period 20s<br>fl. 1s, ec. 19s  | 118<br>36     | 9              | White round metal tower, black<br>metal framework tower, black<br>cupola; 46. | Visible 231°-117°, at<br>distances of less than 5M<br>obscured in places 048°-<br>083°.  |
| 16<br>A 0018                | <b>Round Island.</b>                | 49° 58.7' N<br>6° 19.4' W | <b>Fl.W.</b><br>period 10s<br>fl. 0.3s, ec. 9.7s   | 180<br>55     | 18             | White round tower; 62.  | Visible 021°-288°.<br>Shown by day during reduced<br>visibility.<br><b>Horn:</b> 4 bl. ev. 60s. (bl. 1s, si.<br>2s, bl. 1s, si. 2s, bl. 1s, si.<br>2s, bl. 1s, si. 50s).     |
| 20<br>A 0020                | <b>SEVEN STONES<br/>LIGHTFLOAT.</b> | 50° 03.6' N<br>6° 04.3' W | <b>Fl.(3)W.</b><br>period 30s<br>fl. 0.5s, ec. 4.5s<br>fl. 0.5s, ec. 4.5s<br>fl. 0.5s, ec. 19.5s |               | 15             | Red hull, light tower amidships;<br>39.                                       | Also shown by day when fog<br>signal is operating.<br><b>AIS</b> (MMSI No 992351023).<br><b>Horn:</b> 3 bl. ev. 60s (bl. 2s, si.<br>2s, bl. 2s, si. 2s, bl. 2s, si.<br>50s). |
|                             | RACON                               |                           | <b>O(— — —)</b>  |               | 10             |   | (3 & 10cm).  |
| <b>ENGLAND-SOUTH COAST</b>  |                                     |                           |  |               |                |   |  |
| 24<br>A 0028                | <b>Longships.</b>                   | 50° 04.0' N<br>5° 44.8' W | <b>Fl.(2)W.R.</b><br>period 10s<br>fl. 1s, ec. 1.5s<br>fl. 1s, ec. 6.5s                          | 115<br>35     | W. 15<br>R. 11 | Gray round granite tower; 115.<br>Helicopter platform.                        | R. 189°-327°, W.-189°.<br>Also shown in reduced<br>visibility.<br><b>Horn:</b> 1 bl. ev. 10s (bl. 1s, si.<br>9s).  |
| 28<br>A 0030                | <b>Wolf Rock.</b>                   | 49° 56.7' N<br>5° 48.6' W | <b>Fl.W.</b><br>period 15s<br>fl. 0.2s, ec. 14.8s  | 112<br>34     | 16             | Gray round granite tower, black<br>lantern; 135.<br>Helicopter platform.      | Also shown in reduced<br>visibility.<br><b>AIS</b> (MMSI No 992351128).<br><b>Horn:</b> 1 bl. ev. 30s (bl. 1s, si.<br>29s).  |
|                             | RACON                               |                           | <b>T(—)</b>  |               | 10             |   | (3 & 10cm).  |
| 32<br>A 0032                | <b>Tater-du.</b>                    | 50° 03.1' N<br>5° 34.7' W | <b>Fl.(3)W.</b><br>period 15s<br>fl. 0.1s, ec. 2.4s<br>fl. 0.1s, ec. 2.4s<br>fl. 0.1s, ec. 9.9s  | 112<br>34     | 20             | White round tower; 49.  | Visible 241°-072°.   |
|                             |                                     |                           | <b>F.R.</b>  | 102<br>31     | 13             |   | Visible 060°-072°, over<br>Runnel Stone and in<br>places 072°-077° within<br>4M.   |
| 40<br>A 0038                | Newlyn Harbour, S. pier, head.      | 50° 06.2' N<br>5° 32.6' W | <b>Fl.W.</b><br>period 5s<br>fl. 1s, ec. 4s  | 34<br>10      | 9              | White round metal tower, red<br>cupola, base; 33.                             | Visible 253°-336°.   |
| 44<br>A 0040                | -N. pier, head.                     | 50° 06.1' N<br>5° 32.6' W | <b>F.W.G.</b>  | 13<br>4       | 2              | Green metal post, pedestal.   | G. 238°-248°, W. over the<br>harbor.<br>F.R. shown from inner head.<br>F.R. range lights mark fish<br>market.  |
| 46<br>A 0045                | The Gear.                           | 50° 06.6' N<br>5° 31.6' W | <b>Fl.(2)W.</b><br>period 10s  |               |                | ISOLATED DANGER<br>BRB, beacon, topmark.                                      |  |



| (1)<br>No.                 | (2)<br>Name and Location                    | (3)<br>Position           | (4)<br>Characteristic   | (5)<br>Height | (6)<br>Range   | (7)<br>Structure                                    | (8)<br>Remarks   |
|----------------------------|---|---------------------------|---|---------------|----------------|---|--|
| <b>ENGLAND-SOUTH COAST</b> |   |                           |   |               |                |   |  |
| <b>PENZANCE:</b>           |   |                           |   |               |                |   |  |
| 48<br>A 0046               | -S. pier, head.                             | 50° 07.1' N<br>5° 31.7' W | <b>Fl.W.R.</b><br>period 5s   | 37<br>11      | W. 17<br>R. 12 | White round tower, black base;<br>30.               | R. (unintensified) 159°-224°,<br>R.-268°, W.-344°30', R.-<br>shore.  |
| 52<br>A 0048               | -Albert pier, head.                         | 50° 07.1' N<br>5° 31.8' W | <b>2 F.G.</b> (vert.)   | 36<br>11      | 2              | Gray metal column; 20.                              | 2 meters apart.  |
| 56<br>A 0051               | -Dock entrance, NW. side.                   | 50° 07.0' N<br>5° 31.8' W | <b>2 F.R.</b> (vert.)   | 20<br>6       | 2              | Column; 13.   |  |
| 60<br>A 0056               | Porthleven, on pier, S. side.               | 50° 04.9' N<br>5° 19.1' W | <b>F.G.</b>   | 33<br>10      | 4              | Green metal column; 20.                             | Shown only when inner harbor<br>is open to shipping.<br>F.G. (occasional) shown inside<br>harbor 033°-067° when<br>required for vessels<br>entering.                                     |
| 64<br>A 0060               | <b>Lizard Point.</b>                        | 49° 57.6' N<br>5° 12.1' W | <b>Fl.W.</b><br>period 3s<br>fl. 0.1s, ec. 2.9s                       | 230<br>70     | 26             | White octagonal tower at E. end<br>of building; 62. | Visible 250°-120°, partially<br>visible 235°-250°.<br>F.W. may also be seen within<br>12M.<br>Storm signals.<br><b>Horn:</b> 1 bl. ev. 30s (bl. 3s, si.<br>27s).<br><b>DGPS Station.</b> |
| <b>FALMOUTH:</b>           |   |                           |   |               |                |   |  |
| 68<br>A 0062               | <b>-St. Anthony.</b>                        | 50° 08.5' N<br>5° 01.0' W | <b>Iso.W.R.</b><br>period 15s   | 72<br>22      | W. 16<br>R. 14 | White octagonal tower; 62.                          | W. 295°-004°, R.-022° over<br>Manacle rocks, W.-172°.<br>Shown 24 hours.<br><b>Horn:</b> 1 bl. ev. 30s (bl. 3s, si.<br>27s).   |
| 70                         | <i>-Southover Scorpio Lighted<br/>Buoy.</i> | 50° 08.3' N<br>4° 59.8' W | <b>Q.(6)+L.Fl.W.</b><br>period 15s                                    |               |                | S. CARDINAL<br>YB, pillar, topmark.                 |  |
|                            | <b>-RACON</b>                               |                           | <b>D(- • •)</b><br>period 30s   |               | 10             |   |  |
| 72<br>A 0064               | -E. breakwater, head.                       | 50° 09.4' N<br>5° 03.0' W | <b>2 F.R.</b> (vert.)   | 6<br>2        |                | Dolphin.<br>Floodlit.                               | 2 meters apart.  |
| 80<br>A 0065               | -W. breakwater, head.                       | 50° 09.4' N<br>5° 03.2' W | <b>Q.R.</b>   | 16<br>5       | 3              | Red framework tower; 7.                             |  |
| 84<br>A 0066               | -Custom House quay, head.                   | 50° 09.2' N<br>5° 03.9' W | <b>2 F.R.</b> (vert.)   | 16<br>5       |                | Gray column; 16.                                    |  |
| 88<br>A 0068               | -Fish Strand quay.                          | 50° 09.3' N<br>5° 04.1' W | <b>2 F.R.</b> (vert.)   | 16<br>5       |                | Red column; 13.                                     |  |
| 92<br>A 0069               | -Prince of Wales pier, head.                | 50° 09.4' N<br>5° 04.1' W | <b>2 F.R.</b> (vert.)   | 21<br>6       |                | White concrete column; 16.                          |  |
| 96<br>A 0070               | -Greenbank quay.                            | 50° 09.7' N<br>5° 04.4' W | <b>Fl.R.</b><br>period 2s   | 21<br>6       |                | Gray column; 16.                                    |  |
| 100<br>A 0078              | Mevagissey, S. breakwater,<br>head.         | 50° 16.1' N<br>4° 46.9' W | <b>Fl.(2)W.</b><br>period 10s<br>fl. 1.5s, ec. 2s<br>fl. 1.5s, ec. 5s | 30<br>9       | 12             | White metal tower, black base;<br>26.               | Fishing light.<br><b>Diaphone:</b> 1 bl. ev. 30s (bl.<br>2s, si. 28s).   |
| 102<br>A 0080              | Charlestown, N. breakwater,<br>head.        | 50° 19.8' N<br>4° 45.3' W | <b>2 F.G.</b> (vert.)   | 16<br>5       | 1              |   |  |
| 102.5<br>A 0080.2          | -S. breakwater, head.                       | 50° 19.8' N<br>4° 45.3' W | <b>2 F.R.</b> (vert.)   | 16<br>5       | 1              |   |  |
| <b>FOWEY:</b>              |   |                           |   |               |                |   |  |
| 104<br>A 0082              | -Fowey.                                     | 50° 19.6' N<br>4° 38.8' W | <b>L.Fl.W.R.</b><br>period 5s<br>fl. 2s, ec. 3s                       | 92<br>28      | W. 11<br>R. 9  | White octagonal tower, red<br>lantern; 20.          | R. 284°-295°, W.-028°, R.-<br>054°.  |

| (1)<br>No.                 | (2)<br>Name and Location        | (3)<br>Position           | (4)<br>Characteristic   | (5)<br>Height | (6)<br>Range          | (7)<br>Structure  | (8)<br>Remarks  |
|----------------------------|---------------------------------|---------------------------|---|---------------|-----------------------|---|---|
| <b>ENGLAND-SOUTH COAST</b> |                                 |                           |   |               |                       |   |   |
| 108<br>A 0084              | -Whitehouse Point.              | 50° 20.0' N<br>4° 38.3' W | <b>Iso.W.R.G.</b><br>period 3s  | 36<br>11      | W. 11<br>R. 8<br>G. 8 | Red metal column; 14.   | G. 017°-022°, W.-032°, R.-037°.   |
| 112<br>A 0086              | --N. pier, head.                | 50° 20.0' N<br>4° 38.2' W | <b>2 F.R.</b> (vert.)   | 12<br>4       | 8                     | Red post; 7.  |   |
| POLPERRO:                  |                                 |                           |   |               |                       |   |   |
| 118<br>A 0090              | -Spy House Point.               | 50° 19.8' N<br>4° 30.7' W | <b>Iso.W.R.</b><br>period 6s  | 98<br>30      | 7                     | White concrete pillar; 10.                                    | W. 288°-060°, R.-288°.  |
| 120<br>A 0092              | -Tidal basin, W. pier, head.    | 50° 19.8' N<br>4° 30.9' W | <b>F.W.</b>   | 14<br>4       | 4                     | Post; 10.   | Shows F.R. when harbor is closed.   |
| LOOE:                      |                                 |                           |   |               |                       |   |   |
| 124<br>A 0093              | -Looe Harbor entrance.          | 50° 20.6' N<br>4° 26.9' W | <b>Q.(3)W.</b><br>period 10s  |               | 2                     | E. CARDINAL<br>BYB, beacon, topmark.                          |   |
| 128<br>A 0094              | -Looe.                          | 50° 21.0' N<br>4° 27.1' W | <b>Oc.W.R.</b><br>period 3s<br>fl. 2s, ec. 1s                             | 26<br>8       | W. 15<br>R. 12        | Red metal column; 20.   | R. 207°-267°, W.-313°, R.-332°. Fishing light.  |
| 132<br>A 0098              | <b>Eddystone.</b>               | 50° 10.8' N<br>4° 15.9' W | <b>Fl.(2)W.</b><br>period 10s<br>fl. 0.1s, ec. 2.4s<br>fl. 0.1s, ec. 7.4s | 135<br>41     | 17                    | Gray granite tower, red lantern; 161.<br>Helicopter platform. | Reserve light range 10M.<br><b>AIS</b> (MMSI No 992351125).<br><b>Horn:</b> 1 bl. ev. 30s (bl. 3s, si. 27s).                            |
|                            |                                 |                           | <b>Iso.R.</b><br>period 10s   | 93<br>28      | 8                     |   | Visible 110°-133° over Hand Deep.   |
| RACON                      |                                 |                           | <b>T(-)</b>   |               | 10                    |   | (3 & 10cm).   |
| PLYMOUTH:                  |                                 |                           |   |               |                       |   |   |
| 140<br>A 0111.2            | -Whidbey.                       | 50° 19.5' N<br>4° 07.3' W | <b>Oc.(2)W.R.G.</b><br>period 10s<br>fl. 3s, ec. 1s<br>fl. 5s, ec. 1s     | 95<br>29      | W. 8<br>R. 6<br>G. 6  | Orange and white metal column.                                | G. 000°-137°30', W.-139°30', R.-159°. Auxiliary light Q.Y. Shown 24 hours.  |
| 144<br>A 0112              | -Maker Point.                   | 50° 20.5' N<br>4° 10.9' W | <b>Fl.(2)W.R.G.</b><br>period 10s<br>fl. 0.5s, ec. 3s<br>fl. 0.5s, ec. 6s | 52<br>16      | W. 11<br>R. 6<br>G. 6 | White concrete tower, red stripe; 15.                         | G. 270°-330°, W.-004°, R.-050°. Auxiliary light Q.Y.  |
| 148<br>A 0114              | -Plymouth, breakwater, W. head. | 50° 20.1' N<br>4° 09.5' W | <b>Fl.W.R.</b><br>period 10s<br>fl. 1s, ec. 9s                            | 63<br>19      | W. 12<br>R. 9         | White round granite tower; 75.                                | W. 262°-208°, R.-262°. F.R. and traffic signals on framework tower on fort 700 meters E.<br><b>Horn:</b> 1 bl. ev. 15s.                 |
|                            |                                 |                           | <b>Iso.W.</b><br>period 4s  | 39<br>12      | 10                    |   | Visible 033°-037°.  |
| 150<br>A 0114.5            | --E. head.                      | 50° 20.0' N<br>4° 08.2' W | <b>L.Fl.W.R.</b><br>period 10s<br>fl. 3s, ec. 7s                          | 30<br>9       | W. 8<br>R. 6          | Beacon, black ball topmark.                                   | R. 001°-018°, W.-190°, R.-353°, W.-001°.  |
| 153<br>A 0115.5            | -Staddon Point.                 | 50° 20.2' N<br>4° 07.5' W | <b>Oc.W.R.G.</b><br>period 10s  | 49<br>15      | W. 8<br>R. 5<br>G. 5  | White concrete structure, red bands; 20.                      | G. 348°-038°, W.-050°, R.-090°.   |
| 160<br>A 0117              | -Withyhedge.                    | 50° 20.7' N<br>4° 07.4' W | <b>Dir.W.R.G.</b>   | 43<br>13      | W. 13<br>R. 5<br>G. 5 | Column, white triangular daymark point down, orange stripe.   | F.G. 060°-065°, Al.W.G.-069° (W. phase increasing with bearing), F.W.-071°, Al.W.R.-075° (R. phase increasing with bearing), F.R.-080°. |
|                            |                                 |                           | <b>Fl.(2)Bu.</b><br>period 5s<br>fl. 0.5s, ec. 1s<br>fl. 0.5s, ec. 3s     |               | 10                    |   | Visible 120°-160°. Auxiliary light Q.Y.   |

| (1)<br>No.                 | (2)<br>Name and Location                            | (3)<br>Position           | (4)<br>Characteristic                           | (5)<br>Height | (6)<br>Range          | (7)<br>Structure  | (8)<br>Remarks   |
|----------------------------|---|---------------------------|---|---------------|-----------------------|---|--|
| <b>ENGLAND-SOUTH COAST</b> |   |                           |   |               |                       |   |  |
| 164<br>A 0119              | -Hoe Range, front.                                  | 50° 21.6' N<br>4° 08.3' W | <b>Q.W.R.G.</b>                                 | 16<br>5       | W. 10<br>R. 3<br>G. 3 | White column, orange bands,<br>triangular daymark point up.       | G. 233°-043°, R.-067°, G.-<br>087°, W.-099°, leading<br>sector R. 099°-108°.<br>Fl.W. 5s shown in fog, visible<br>232°-110°.<br>Auxiliary light Q.Y.   |
| 168<br>A 0119.1            | --Rear, 396 meters 349° from<br>front.              | 50° 21.8' N<br>4° 08.4' W | <b>Oc.G.</b><br>period 1.3s<br>lt. 1s, ec. 0.3s | 36<br>11      | 3                     | Column, white triangular<br>daymark point down, orange<br>stripe. | Visible 310°-040°.<br>Auxiliary light Q.Y.   |
| 172<br>A 0122              | -Royal Western Yacht Club.                          | 50° 21.8' N<br>4° 08.8' W | <b>Dir.W.R.G.</b>                               | 29<br>9       | W. 13<br>R. 5<br>G. 5 | Orange triangular daymark point<br>down.                          | F.G. 309°-311°, Al.W.G.-314°<br>(W. phase increasing with<br>bearing), F.W.-317°,<br>Al.W.R.-320° (R. phase<br>increasing with bearing),<br>F.R.-329°.<br>F.W. shown in fog, visible<br>314°-317°.<br>Auxiliary light Q.Y. |
| 176<br>A 0124              | -Mount Batten, breakwater, W.<br>head.              | 50° 21.6' N<br>4° 08.1' W | <b>2 F.G.</b> (vert.)                           | 23<br>7       | 4                     | Metal column.   | F.R. on radio mast on Drake's<br>Island 0.74 mile WSW.<br>2 F.R. on Civic Center 0.7 mile<br>NNW.  |
|                            | -Cattewater:  |                           |   |               |                       |   |  |
| 180<br>A 0134              | --Cobbler Channel Range,<br>(Fisher's Nose), front. | 50° 21.8' N<br>4° 08.0' W | <b>F.Bu.</b>                                    |               |                       |   | Intensified 022°30'-030°30'.   |
|                            |   |                           | <b>Fl.(3)R.</b><br>period 10s                   | 20<br>6       | 4                     | Metal column; 13.   |  |
| 180.5<br>A 0134.1          | ---Rear, 404 meters 026°30'<br>from front.          | 50° 22.0' N<br>4° 07.9' W | <b>F.Bu.</b>                                    |               |                       |   | Intensified 022°30'-030°-30'.  |
| 182<br>A 0131              | --Queen Anne's Battery Range,<br>front.             | 50° 21.8' N<br>4° 07.8' W | <b>Oc.R.</b><br>period 8s                       |               |                       | White beacon, red bands, red<br>ball topmark.                     |  |
| 184<br>A 0132              | ---Rear, 140 meters 048°30'<br>from front.          | 50° 21.9' N<br>4° 07.8' W | <b>Oc.R.</b><br>period 8s                       | 46<br>14      | 3                     | White tower, red-roofed building.                                 |  |
| 188<br>A 0137              | --Victoria pier, head.                              | 50° 21.8' N<br>4° 07.6' W | <b>2 F.R.</b> (vert.)                           | 25<br>8       | 4                     | Red metal column; 16.   |  |
| 192<br>A 0136              | --Approach, 102°.                                   | 50° 21.7' N<br>4° 07.3' W | <b>Dir.W.R.G.</b>                               | 90<br>27      | 8                     | Red and white column.   | F.G. 090°42'-100°42', F.W.-<br>103°12', F.R.-113°12'.  |
| 196<br>A 0138              | --Turnchapel, 128°30'.                              | 50° 21.5' N<br>4° 07.0' W | <b>Dir.W.R.G.</b>                               | 161<br>49     | 8                     | Red and white tower.  | F.G. 117°48'-127°48', F.W.-<br>129°12', F.R.-139°12'.  |
| 201<br>A 0141              | --Clovelly Bay Range, front.                        | 50° 21.5' N<br>4° 07.4' W | <b>F.R.</b>                                     |               |                       | Beacon.   |  |
| 202<br>A 0141.1            | ---Rear, 198° from front.                           | 50° 21.5' N<br>4° 07.4' W | <b>F.R.</b>                                     |               |                       | Red and white metal tower, white<br>diamond daymark; 33.          |  |
| 202.5<br>A 0126            | --Pontoon.  | 50° 21.7' N<br>4° 07.8' W | <b>2 F.G.</b> (vert.)                           |               |                       |   | At either end of pontoon.  |
| 208<br>A 0147              | --Phoenix wharf.                                    | 50° 21.9' N<br>4° 08.0' W | <b>2 F.R.</b> (vert.)                           | 19<br>6       |                       | Green metal column; 10.   |  |
| 209<br>A 0148              | --Queen Anne's, breakwater,<br>knuckle.             | 50° 21.9' N<br>4° 07.9' W | <b>Oc.G.</b><br>period 8s<br>lt. 6s, ec. 2s     | 16<br>5       | 2                     | Silver metal column; 10.  |  |
| 210<br>A 0148.5            | ---Head.  | 50° 21.9' N<br>4° 07.9' W | <b>Fl.(2)G.</b><br>period 5s                    | 16<br>5       | 2                     | Silver metal column; 10.  |  |
| 224<br>A 0157              | --Sutton wharf, head.                               | 50° 22.1' N<br>4° 07.9' W | <b>2 F.R.</b> (vert.)                           |               |                       | Metal pole; 10.   | Traffic signals shown from E.<br>side of entrance lock at N.<br>and S. ends.   |

| (1)<br>No.                 | (2)<br>Name and Location       | (3)<br>Position           | (4)<br>Characteristic   | (5)<br>Height | (6)<br>Range          | (7)<br>Structure  | (8)<br>Remarks   |
|----------------------------|--------------------------------|---------------------------|---|---------------|-----------------------|---|--|
| <b>ENGLAND-SOUTH COAST</b> |                                |                           |   |               |                       |   |  |
| -Mill Bay:                 |                                |                           |   |               |                       |   |  |
| 240<br>A 0164              | --Pier, 048°30'.               | 50° 21.8' N<br>4° 09.0' W | <b>Dir.Q.W.R.G.</b>   | 40<br>12      | W. 13<br>R. 8<br>G. 8 | White concrete tower, red bands;<br>36.                                 | G. 038°30'-045°30', W.-<br>051°30', R.-058°30', G.<br>315°30'-321°30', W.-<br>329°30', R.-335°30'.<br>Auxiliary light Q.Y.   |
| 244<br>A 0166              | --E. pier, head.               | 50° 21.7' N<br>4° 09.2' W | <b>Q.G.</b>   | 33<br>10      | 2                     | Concrete column; 26.  |  |
| 245<br>A 0166.2            | ---N. side.                    | 50° 21.8' N<br>4° 09.1' W | <b>Oc.G.</b><br>period 4s   |               |                       |   |  |
| 246<br>A 0166.4            | --Marina, wavescreen, S. head. | 50° 21.8' N<br>4° 09.1' W | <b>Oc.R.</b><br>period 4s   |               |                       |   |  |
| 248<br>A 0167              | --W. pier, head.               | 50° 21.8' N<br>4° 09.3' W | <b>Q.R.</b>   |               | 2                     | Pile.   |  |
| 252<br>A 0168              | --Trinity pier, No 1.          | 50° 21.8' N<br>4° 09.2' W | <b>2 F.G.</b> (vert.)   |               | 2                     | Dolphin.  | 2 meters apart.  |
| 253<br>A 0168.2            | ---No 3.                       | 50° 21.8' N<br>4° 09.2' W | <b>Fl.(2)W.</b><br>period 5s  | 23<br>7       |                       | Dolphin.  |  |
| -Drake Channel:            |                                |                           |   |               |                       |   |  |
| 254<br>A 0161              | --Eastern King.                | 50° 21.7' N<br>4° 09.4' W | <b>Fl.W.</b><br>period 5s   |               |                       | On roof of degaussing station.  | Shown in fog, visible 259°-<br>062°. Auxiliary light Q.Y.  |
| 255<br>A 0162              | --Western King, 271°.          | 50° 21.6' N<br>4° 09.8' W | <b>Dir.W.R.G.</b>   | 46<br>14      | W. 13<br>R. 5<br>G. 5 | White column, white triangular<br>daymark point down, orange<br>stripe. | F.G. 264°-266°, Al.W.G.-270°<br>(W. phase increasing with<br>bearing), F.W.-272°,<br>Al.W.R.-276° (R. phase<br>increasing with bearing),<br>F.R.-284°. Auxiliary light Q.Y.  |
| -The Narrows:              |                                |                           |   |               |                       |   |  |
| 256<br>A 0170              | --Ravenness, 225°.             | 50° 21.1' N<br>4° 10.1' W | <b>Dir.W.R.G.</b>   | 35<br>11      | W. 13<br>R. 5<br>G. 5 | Column, white triangular<br>daymark point down, orange<br>stripe.       | F.G. 217°-221°, Al.W.G.-224°<br>(W. phase increasing with<br>bearing), F.W.-226°,<br>Al.W.R.-229° (R. phase<br>increasing with bearing),<br>F.R.-237°. Fl.(2)W. 15s shown in fog,<br>visible 160°-305°. Auxiliary light Q.Y. |
| 260<br>A 0172              | --Mount Wise, 343°.            | 50° 22.0' N<br>4° 10.3' W | <b>Dir.W.R.G.</b>   | 24<br>7       | W. 13<br>R. 5<br>G. 5 | White hut, white triangular<br>daymark point down, orange<br>stripe.    | F.G. 331°-338°, Al.W.G.-342°<br>(W. phase increasing with<br>bearing), F.W.-344°,<br>Al.W.R.-348° (R. phase<br>increasing with bearing),<br>F.R.-351°. F.W. shown in fog, visible<br>341°30'-344°30'. Auxiliary light Q.Y.   |
| 264<br>A 0173              | --The Bridge.                  | 50° 21.0' N<br>4° 09.9' W | <b>Fl.(2)Bu.</b><br>period 5s<br>fl. 0.5s, ec. 1s<br>fl. 0.5s, ec. 3s | 16<br>5       | 3                     | Column, white triangular<br>daymark point down, orange<br>stripe.       | Visible 140°-210°. Auxiliary light Q.Y.  |
| 268<br>A 0174              | --Devils Point.                | 50° 21.6' N<br>4° 10.0' W | <b>Q.G.</b>   | 16<br>5       | 3                     | Orange and white concrete<br>column.                                    | Fl.W. 5s shown in fog.<br>Auxiliary light Q.Y.   |
| 272<br>A 0176              | --Cremyll Shoal.               | 50° 21.6' N<br>4° 10.4' W | <b>Fl.R.</b><br>period 4s   | 16<br>5       |                       | White beacon.   | Fl.(2)W. 15s shown in fog,<br>visible 097°-338°. Auxiliary light Q.Y.  |
| -Hamoaze:                  |                                |                           |   |               |                       |   |  |
| 274<br>A 0178              | --Ocean Court, 085°.           | 50° 21.8' N<br>4° 10.1' W | <b>Q.W.R.G.</b>   | 49<br>15      | W. 11<br>R. 3<br>G. 3 | White structure, orange<br>triangular daymark point<br>down; 10.        | G. 010°-080°, W.-090°, R.-<br>100°. Fl.W. 5s shown in fog, visible<br>270°-100°. Auxiliary light Q.Y.  |

| (1)<br>No.                 | (2)<br>Name and Location                   | (3)<br>Position           | (4)<br>Characteristic   | (5)<br>Height | (6)<br>Range          | (7)<br>Structure   | (8)<br>Remarks  |
|----------------------------|--|---------------------------|---|---------------|-----------------------|--|---|
| <b>ENGLAND-SOUTH COAST</b> |  |                           |   |               |                       |  |   |
| 276<br>A 0182              | --Mutton Cove, landing stage.              | 50° 21.9' N<br>4° 10.6' W | <b>2 F.G.</b> (vert.)   | 16<br>5       | 1                     | Metal column; 10.  |   |
| 280<br>A 0184              | --Millbrook.                               | 50° 21.3' N<br>4° 11.4' W | <b>Q.W.G.</b>   | 36<br>11      | W. 11<br>G. 3         | Column, white triangle daymark<br>point up, orange stripe. | G. 165°-180°, W.-230°.<br>Auxiliary light Q.Y.  |
| 282<br>A 0185              | --Sango Point.                             | 50° 21.7' N<br>4° 12.4' W | <b>Q.W.</b>   | 26<br>8       | 5                     | Beacon.  | Visible 215°-289°.  |
| 284<br>A 0186              | --N. Corner, landing stage, S.<br>head.    | 50° 22.3' N<br>4° 11.1' W | <b>2 F.G.</b> (vert.)   | 7<br>2        | 2                     | Metal column.  |   |
| 286<br>A 0186.2            | ---N. head.                                | 50° 22.3' N<br>4° 11.1' W | <b>2 F.G.</b> (vert.)   |               |                       |  |   |
| 292<br>A 0192              | --Yonderberry Point, on oil jetty.         | 50° 22.9' N<br>4° 11.7' W | <b>2 F.R.</b> (vert.)   |               |                       |  |   |
| 294<br>A 0193              | --NW. corner.                              | 50° 23.4' N<br>4° 11.6' W | <b>Q.W.R.G.</b>   | 39<br>12      | W. 11<br>R. 3<br>G. 3 | Column.  | W. 340°-355°, R.-025°, G.-<br>055°, W.-110°, R.-140°,<br>W.-230°.<br>Fl.W. 5s shown in fog, visible<br>310°-220°.<br>Auxiliary light Q.Y. |
| 300<br>A 0204              | --Saltash quay.                            | 50° 24.4' N<br>4° 12.3' W | <b>Fl.R.</b><br>period 5s   | 10<br>3       |                       | Concrete column; 10.                                       | Fl.R. 2.5s marks Town Quay<br>close S.  |
| SALCOMBE:                  |  |                           |   |               |                       |  |   |
| 308<br>A 0220              | --Sandhill Point, 000°.                    | 50° 13.7' N<br>3° 46.7' W | <b>Dir.Fl.W.R.G.</b><br>period 2s<br>fl. 0.5s, ec. 1.5s   | 89<br>27      | 8                     | White beacon, red and white<br>diamond daymark; 39.        | G. 337°-30'-357°-30', W.-<br>002°-30', R.-012°-30'.   |
| 312<br>A 0222              | --Range, front.                            | 50° 14.5' N<br>3° 45.2' W | <b>Fl.W.</b><br>period 2s<br>fl. 0.3s, ec. 1.7s   | 16<br>5       | 8                     | Mast.  |   |
| 316<br>A 0222.1            | --Rear, 180 meters 042°-30'<br>from front. | 50° 14.6' N<br>3° 45.2' W | <b>Fl.W.</b><br>period 5s<br>fl. 0.3s, ec. 4.7s   | 148<br>45     | 8                     | Stone column; 7.   |   |
| 320<br>A 0224              | --Landing stage.                           | 50° 14.1' N<br>3° 45.9' W | <b>F.R.</b>   | 13<br>4       | 3                     | White metal column; 10.                                    |   |
| 324<br>A 0228              | <b>Start Point.</b>                        | 50° 13.3' N<br>3° 38.5' W | <b>Fl.(3)W.</b><br>period 10s<br>fl. 0.3s, ec. 1.3s<br>fl. 0.3s, ec. 1.3s<br>fl. 0.3s, ec. 6.5s | 203<br>62     | 25                    | White round granite tower; 92.                             | Visible 184°-068°.<br><b>Horn:</b> 1 bl. ev. 60s (bl. 3s, si.<br>57s).  |
|                            |  |                           | <b>F.R.</b>   | 180<br>55     | 9                     |  | Visible 210°-255° over<br>Skerries Bank.  |
| DARTMOUTH:                 |  |                           |   |               |                       |  |   |
| 328<br>A 0236              | --Kingswear.                               | 50° 20.8' N<br>3° 34.1' W | <b>Iso.W.R.G.</b><br>period 3s  | 30<br>9       | 8                     | White round fiberglass tower.                              | G. 318°-325°, W.-331°, R.-<br>340°.   |
| 332<br>A 0242              | --Marina, S. head.                         | 50° 21.4' N<br>3° 34.5' W | <b>2 F.R.</b> (vert.)   |               |                       |  |   |
| 336<br>A 0237              | --Kettle Point.                            | 50° 20.6' N<br>3° 33.7' W | <b>F.W.</b>   | 18<br>5       | 9                     | Red lantern.   | Visible 102°-107°.  |
| 340<br>A 0238              | --Bayards Cove.                            | 50° 20.8' N<br>3° 34.6' W | <b>Fl.W.R.G.</b><br>period 2s<br>fl. 0.5s, ec. 1.5s   | 18<br>5       | 6                     | White stripe on rock.                                      | G. 280°-289°, W.-297°, R.-<br>005°.   |
| 344<br>A 0244              | <b>Berry Head.</b>                         | 50° 24.0' N<br>3° 29.0' W | <b>Fl.(2)W.</b><br>period 15s<br>fl. 0.2s, ec. 2.6s<br>fl. 0.2s, ec. 12s                        | 191<br>58     | 19                    | White tower; 16.   | Visible 100°-023°.  |

| (1)<br>No.                 | (2)<br>Name and Location                           | (3)<br>Position           | (4)<br>Characteristic                         | (5)<br>Height | (6)<br>Range | (7)<br>Structure            | (8)<br>Remarks  |
|----------------------------|--|---------------------------|---|---------------|--------------|-----------------------------|---|
| <b>ENGLAND-SOUTH COAST</b> |  |                           |   |               |              |                             |   |
| TORBAY:                    |  |                           |   |               |              |                             |   |
| 348<br>A 0246              | -Brixham, breakwater, head.                        | 50° 24.3' N<br>3° 30.8' W | <b>Oc.R.</b><br>period 15s<br>lt. 12s, ec. 3s | 30<br>9       | 6            | White tower; 21.            |   |
| 357<br>A 0247.4            | --Prince William Marina, Wave<br>Screen, SW. head. | 50° 23.9' N<br>3° 30.5' W | <b>2 F.I.R.</b> (vert.)<br>period 5s          | 13<br>4       | 2            | Mast; 13.                   | 2 meters apart.   |
| 358<br>A 0247.6            | ---E. head.  | 50° 24.0' N<br>3° 30.5' W | <b>2 F.I.G.</b> (vert.)<br>period 5s          | 13<br>4       | 2            | Mast; 13.                   | 2 meters apart.   |
| 360<br>A 0248              | --New Pier, head.                                  | 50° 23.8' N<br>3° 30.6' W | <b>Q.G.</b>                                   | 20<br>6       | 3            | White metal structure; 3.   |   |
| 364<br>A 0249              | --Fish Market Pier, head, SW.<br>corner.           | 50° 23.9' N<br>3° 30.6' W | <b>2 F.G.</b> (vert.)                         | 16<br>5       | 1            | Building.                   | 2 meters apart.   |
| 368<br>A 0249.2            | ---NW. corner.                                     | 50° 23.9' N<br>3° 30.6' W | <b>2 F.G.</b> (vert.)                         | 16<br>5       | 1            | Building.                   | 2 meters apart.   |
| 372<br>A 0249.5            | --Slipway.   | 50° 23.9' N<br>3° 30.7' W | <b>Q.G.</b>                                   |               |              |                             |   |
| 376<br>A 0250              | -Paignton Harbour, E. quay,<br>head.               | 50° 26.0' N<br>3° 33.3' W | <b>Q.R.</b>                                   | 24<br>7       | 3            | Red metal column; 16.       | Difficult to distinguish by day.  |
| -Torquay:                  |  |                           |   |               |              |                             |   |
| 380<br>A 0254              | --Haldon pier, head.                               | 50° 27.4' N<br>3° 31.7' W | <b>Q.G.</b>                                   | 29<br>9       | 6            | Metal column; 23.           |   |
| 384<br>A 0256              | --Inner harbor pier, head.                         | 50° 27.5' N<br>3° 31.5' W | <b>2 F.G.</b> (vert.)                         | 19<br>6       | 5            | Metal structure; 3.         | Traffic signals.  |
| 388<br>A 0252              | --Princess Pier, head.                             | 50° 27.4' N<br>3° 31.7' W | <b>Q.R.</b>                                   | 29<br>9       | 6            | Metal column; 23.           |   |
| TEIGNMOUTH:                |  |                           |   |               |              |                             |   |
| 392<br>A 0262              | -The Den.  | 50° 32.5' N<br>3° 29.8' W | <b>F.R.</b>                                   | 33<br>10      | 6            | Gray round stone tower; 20. | Visible 225°-070°.<br>F.Bu. range lights, 021°, are<br>shown at New Quay to<br>assist pilots. |
| 396<br>A 0262.1            | --Powderham Terrace.                               | 50° 32.5' N<br>3° 29.7' W | <b>F.R.</b>                                   | 36<br>11      | 3            | Black column; 33.           |   |
| 400<br>A 0263              | --Phillip Lucette Beacon.                          | 50° 32.3' N<br>3° 29.9' W | <b>Oc.R.</b><br>period 6s                     | 13<br>4       | 3            | White stone column.         |   |
| 402<br>A 0263.5            | -Den Point, SW. head.                              | 50° 32.4' N<br>3° 30.0' W | <b>Oc.G.</b><br>period 6s                     |               | 3            | Green beacon.               |   |
|                            |  |                           | <b>F.G.</b>                                   |               |              |                             | Mounted 2 meters below<br>Oc.G. 6s light.   |
| EXMOUTH:                   |  |                           |   |               |              |                             |   |
| 408<br>A 0274              | -Custom House.                                     | 50° 37.0' N<br>3° 25.3' W | <b>Dir.W.R.G.</b><br>period 2s                | 21<br>6       | 6            | White metal column; 7.      | Iso.G. 299°-304°, Iso.W.-<br>306°, Iso.R.-311°.   |
| 418<br>A 0278              | Sidmouth.  | 50° 40.5' N<br>3° 14.4' W | <b>F.I.R.</b><br>period 5s                    | 16<br>5       | 2            |                             | Visible 230°-100°.  |
| 420<br>A 0280              | Beer, near church.                                 | 50° 41.8' N<br>3° 05.4' W | <b>F.W.</b>                                   | 86<br>26      |              | Metal column; 16.           | Difficult to distinguish.   |
| 424<br>A 0284              | Lyme Regis Range, front.                           | 50° 43.2' N<br>2° 56.2' W | <b>Oc.W.R.</b><br>period 8s<br>lt. 6s, ec. 2s | 20<br>6       | W. 9<br>R. 7 | Blue metal column; 16.      | R. 284°-104°, W.-284°.  |
| 428<br>A 0284.1            | -Rear, 280 meters 284° from<br>front.              | 50° 43.2' N<br>2° 56.3' W | <b>F.G.</b>                                   | 26<br>8       | 9            | Building.                   |   |

| (1)<br>No.                  | (2)<br>Name and Location                    | (3)<br>Position           | (4)<br>Characteristic  | (5)<br>Height | (6)<br>Range | (7)<br>Structure                     | (8)<br>Remarks  |
|-----------------------------|---|---------------------------|--|---------------|--------------|--------------------------------------|---|
| <b>ENGLAND-SOUTH COAST</b>  |   |                           |  |               |              |                                      |   |
| 432<br>A 0288               | Bridport, E. pier, head.                    | 50° 42.6' N<br>2° 45.8' W | <b>Fl.G.</b><br>period 8s  | 16<br>5       | 4            |                                      |   |
| PORTLAND:                   |   |                           |  |               |              |                                      |   |
| 448<br>A 0294               | <b>-Bill of Portland.</b>                   | 50° 30.9' N<br>2° 27.4' W | <b>Fl.(4)W.</b><br>period 20s<br>fl. 0.1s, ec. 1.4s<br>fl. 0.1s, ec. 1.4s<br>fl. 0.1s, ec. 1.4s<br>fl. 0.1s, ec. 15.4s | 141<br>43     | 25           | White round tower, red band;<br>135. | Visible 221°-141°.<br>Gradually changes from 1<br>flash to 4 flashes 221°-<br>244°, 4 flashes-117°,<br>gradually changes from 4<br>flashes to 1 flash-141°.<br><b>Diaphone:</b> 1 bl. ev. 30s (bl.<br>3.5s, sl. 26.5s). |
|                             |   |                           | <b>F.R.</b>  | 63<br>19      | 13           |                                      | Visible 265°-291° over The<br>Shambles.   |
| 449<br>A 0293               | --Calibration range.                        | 50° 30.9' N<br>2° 27.5' W | <b>Oc.(2)Y.</b><br>period 10s<br>lt. 1s, ec. 1s<br>lt. 7s, ec. 1s  | 66<br>20      | 10           |                                      | Visible 305°-125°.<br>Shown when range is in use.   |
| -Outer Breakwater:          |   |                           |  |               |              |                                      |   |
| 452<br>A 0302               | --S. Ship Channel, breakwater,<br>SW. head. | 50° 34.1' N<br>2° 25.3' W | <b>Mo.(U)W.</b><br>period 15s  | 39<br>12      | 5            |                                      | F.R. on towers 2.8 miles NW.<br>and 0.68 mile WSW.  |
| 456<br>A 0310               | --E. Ship Channel, NW. part of<br>fort.     | 50° 35.1' N<br>2° 24.9' W | <b>Q.R.</b>  | 46<br>14      | 5            | Metal framework tower; 7.            | Visible 013°-268°.  |
| -Portland (NE. Breakwater): |   |                           |  |               |              |                                      |   |
| 464<br>A 0314               | --A, S. head.                               | 50° 35.2' N<br>2° 25.1' W | <b>Fl.W.</b><br>period 2.5s  | 71<br>22      | 10           | White metal tower; 72.               |   |
| 468<br>A 0320               | --NW. end (B head) N.<br>Channel.           | 50° 35.7' N<br>2° 25.9' W | <b>Oc.R.</b><br>period 15s   | 36<br>11      | 5            | Gray metal column; 7.                |   |
| 472<br>A 0322               | --N. arm, C, SE. head.                      | 50° 35.8' N<br>2° 26.0' W | <b>Oc.G.</b><br>period 10s   | 35<br>11      | 5            | Gray metal column; 7.                |   |
| --Portland (Q. Pier):       |   |                           |  |               |              |                                      |   |
| 480<br>A 0334               | ---Elbow.                                   | 50° 34.3' N<br>2° 26.4' W | <b>Iso.R.</b><br>period 2s   | 19<br>6       | 2            | Metal framework tower; 10.           |   |
| 484<br>A 0332               | ---S. corner, head.                         | 50° 34.4' N<br>2° 26.2' W | <b>Fl.G.</b><br>period 5s<br>fl. 1s, ec. 4s  | 16<br>5       | 5            | Metal framework tower; 10.           |   |
| 488<br>A 0330               | ---N. corner, head.                         | 50° 34.4' N<br>2° 26.2' W | <b>Fl.R.</b><br>period 5s<br>fl. 1s, ec. 4s  | 18<br>5       | 5            | Metal framework tower; 10.           |   |
| 492<br>A 0327               | -Coaling pier, catwalk, head.               | 50° 34.3' N<br>2° 25.9' W | <b>V.Q.(3)W.</b><br>period 5s  |               | 2            | Dolphin.                             | F.R. lights mark catwalk.   |
| 496<br>A 0327.5             | -Deep water berth, E. head.                 | 50° 34.3' N<br>2° 25.9' W | <b>2 F.R.</b> (vert.)  | 16<br>5       | 2            | Metal column.                        |   |
| 500<br>A 0327.6             | --W. head.                                  | 50° 34.3' N<br>2° 26.0' W | <b>2 F.R.</b> (vert.)  | 16<br>5       | 2            | Metal column.                        |   |
| 508<br>A 0326.2             | -N. arm.                                    | 50° 34.1' N<br>2° 26.0' W | <b>2 F.R.</b> (vert.)  | 14<br>4       | 2            | Metal column; 7.                     |   |
| 512<br>A 0326.5             | -Loading jetty, N. head.                    | 50° 34.2' N<br>2° 26.0' W | <b>Q.W.</b>  | 13<br>4       | 2            | Metal column.                        |   |
| 517<br>A 0324               | -East Ship Channel Range,<br>front.         | 50° 34.1' N<br>2° 25.9' W | <b>F.R.</b>  | 20<br>6       | 3            | Stone wall.                          |   |
| 517.1<br>A 0324.1           | --Rear, 120 meters 210° from<br>front.      | 50° 34.0' N<br>2° 25.9' W | <b>F.R.</b>  | 56<br>17      | 3            | White building.                      |   |
| 520<br>A 0339               | -New Channel.                               | 50° 34.9' N<br>2° 27.7' W | <b>L.Fl.W.</b><br>period 10s<br>fl. 2s, ec. 8s   | 10<br>3       | 5            | Metal pile, white square<br>daymark. |   |

| (1)<br>No.                 | (2)<br>Name and Location                 | (3)<br>Position           | (4)<br>Characteristic  | (5)<br>Height | (6)<br>Range            | (7)<br>Structure  | (8)<br>Remarks  |
|----------------------------|--|---------------------------|--|---------------|-------------------------|---|---|
| <b>ENGLAND-SOUTH COAST</b> |  |                           |  |               |                         |   |   |
| 528<br>A 0354              | -N. pier, head.                          | 50° 36.6' N<br>2° 26.6' W | <b>2 F.G.</b> (vert.)  | 29<br>9       | 6                       | Green column.   | 2 meters apart.<br>Storm signal.  |
| 532<br>A 0348              | -Ballast Quay Range, front.              | 50° 36.5' N<br>2° 26.9' W | <b>F.R.</b>  | 16<br>5       | 7                       | White post, red diamond<br>daymark; 10.                                     |   |
| 536<br>A 0348.1            | --Rear, 17 meters 239°38' from<br>front. | 50° 36.5' N<br>2° 26.9' W | <b>F.R.</b>  | 22<br>7       | 7                       | White mast, red diamond<br>daymark; 16.                                     | Bridge traffic signals shown<br>530 meters W.   |
| <b>WEYMOUTH HARBOUR:</b>   |  |                           |  |               |                         |   |   |
| 540<br>A 0346              | -S. stone pier, head.                    | 50° 36.6' N<br>2° 26.5' W | <b>Q.W.</b>  | 33<br>10      | 9                       | White mast, gray metal platform;<br>26.                                     | Traffic signals shown 190<br>meters SW.   |
| 544<br>A 0496              | Anvil Point.                             | 50° 35.6' N<br>1° 57.5' W | <b>Fl.W.</b><br>period 10s<br>fl. 1s, ec. 9s                           | 148<br>45     | 9                       | White round tower, dwelling; 39.  | Visible 237°-076°.  |
| 548<br>A 0498              | Swanage, pier, head.                     | 50° 36.6' N<br>1° 57.0' W | <b>2 F.R.</b> (vert.)  | 20<br>6       | 3                       | Mast; 10.   |   |
| <b>POOLE:</b>              |  |                           |  |               |                         |   |   |
| 560<br>A 0500              | -Training Bank.                          | 50° 39.8' N<br>1° 55.8' W | <b>2 F.R.</b> (vert.)  |               |                         | PORT (A)<br>R, beacon, topmark.   |   |
| 572<br>A 0506              | -N. Haven Point.                         | 50° 41.1' N<br>1° 57.1' W | <b>Q.(9)W.</b><br>period 15s   | 15<br>5       |                         | W. CARDINAL<br>YBY, tower, topmark.   | 2 F.G. (vert.) light shown on<br>either side of ramp at<br>Sandbanks ferry landing.<br>2 F.R. (vert.) light shown on<br>either side of ramp at<br>South Haven Point ferry<br>landing. |
| 573<br>A 0520.6            | -Furzey Island, Slipway Range,<br>front. | 50° 40.9' N<br>1° 58.9' W | <b>Fl.Y.</b><br>period 2s  |               |                         |   | Fl.G. 5s on 3 mooring<br>dolphins 60 meters SE.   |
| 574<br>A 0520.61           | --Rear, 35 meters 305° from<br>front.    | 50° 40.9' N<br>1° 58.9' W | <b>Fl.Y.</b><br>period 2s  |               |                         |   |   |
| 576<br>A 0521              | Bournemouth, pier, head.                 | 50° 42.8' N<br>1° 52.5' W | <b>2 F.R.</b> (vert.)  | 28<br>9       | 1                       | White column; 13.   | 2 meters apart.<br><b>Bell:</b> . To assist berthing of<br>vessels.<br><b>Reed:</b> 2 bl. in quick<br>succession ev. 120s.<br>When a vessel is<br>expected.                           |
| 580<br>A 0522              | Boscombe, pier, head.                    | 50° 43.1' N<br>1° 50.6' W | <b>2 F.R.</b> (vert.)  | 24<br>7       | 1                       | Red column; 10.   |   |
| <b>NEEDLES CHANNEL:</b>    |  |                           |  |               |                         |   |   |
| 584<br>A 0528              | <b>-Needles.</b>                         | 50° 39.7' N<br>1° 35.5' W | <b>Oc.(2)W.R.G.</b><br>period 20s<br>lt. 2s, ec. 2s<br>lt. 14s, ec. 2s | 80<br>24      | W. 17<br>R. 14<br>G. 14 | Round granite tower, red band,<br>red lantern; 102.<br>Helicopter platform. | R. 261°-300°, W.-083°,<br>R.(unintens.)-212°, W.-<br>217°, G.-224°.<br>Shown 24 hours.<br><b>Horn:</b> 2 bl. ev. 30s (bl. 1.5s,<br>si. 2s, bl. 1.5s, si. 25s).                        |
| 588<br>A 0534              | -Totland Bay, on pier.                   | 50° 41.0' N<br>1° 32.7' W | <b>2 F.G.</b> (vert.)  | 20<br>6       | 2                       |   |   |



| (1)<br>No.                 | (2)<br>Name and Location                   | (3)<br>Position           | (4)<br>Characteristic   | (5)<br>Height | (6)<br>Range            | (7)<br>Structure  | (8)<br>Remarks   |
|----------------------------|--|---------------------------|---|---------------|-------------------------|---|--|
| <b>ENGLAND-SOUTH COAST</b> |  |                           |   |               |                         |   |  |
| 596<br>A 0538.1            | <b>-Hurst Point.</b>                       | 50° 42.5' N<br>1° 33.0' W | <b>Fl.(4)W.R.</b><br>period 15s<br>fl. 0.9s, ec. 1.1s<br>fl. 0.9s, ec. 1.1s<br>fl. 0.9s, ec. 1.1s<br>fl. 0.9s, ec. 8.1s | 76<br>23      | W. 13<br>R. 11          | White round tower; 85.                                  | W. 080°-104°, W. 234°-244°,<br>R.-250°, W.-053°.<br>Obscured beyond Isle of<br>Wight.  |
|                            |  |                           | <b>Dir.W.R.G.</b><br>period 4s  | 62<br>19      | W. 21<br>R. 18<br>G. 17 |   | Iso.G. 038°48'-040°48',<br>Iso.W.-041°48', Iso.R.-<br>043°48'.<br>Range W. 7M, R. 5M, G. 5M<br>by day.<br>False flashes from W. sector<br>may be seen in certain<br>weather conditions S. of<br>G. sector within 3M. |
| 600<br>A 0542              | -Lymington Range, front.                   | 50° 45.2' N<br>1° 31.7' W | <b>F.R.</b>   | 39<br>12      | 8                       | Metal column; 36.                                       | Visible 309°30'-329°30'.   |
| 604<br>A 0542.1            | --Rear, 363 meters 319°30'<br>from front.  | 50° 45.4' N<br>1° 31.9' W | <b>F.R.</b>   | 56<br>17      | 8                       | Metal column; 56.                                       | Visible 309°30'-329°30'.<br>Several lights mark banks of<br>river.   |
| 606<br>A 0541              | -Jack in the Basket.                       | 50° 44.3' N<br>1° 30.6' W | <b>Fl.R.</b><br>period 2s<br>fl. 0.4s, ec. 1.6s   | 30<br>9       | 3                       | Post, red square daymark; 39.                           |  |
| 607<br>A 0544              | -Lymington River Beacon No 1.              | 50° 44.4' N<br>1° 30.5' W | <b>Fl.G.</b><br>period 2s<br>fl. 0.4s, ec. 1.6s   | 7<br>2        | 3                       | STARBOARD (A)<br>G, pile, topmark; 20.                  |  |
| 608<br>A 0543              | --Cross Boom, Beacon No 2.                 | 50° 44.4' N<br>1° 30.6' W | <b>Fl.R.</b><br>period 2s<br>fl. 0.4s, ec. 1.6s   | 13<br>4       | 3                       | PORT (A)<br>R, pile, topmark; 26.                       |  |
| 612<br>A 0552              | -Obstruction, S. head.                     | 50° 45.4' N<br>1° 27.1' W | <b>Q.R.</b>   |               |                         | Dolphin.  |  |
| 616<br>A 0553.2            | -Beaulieu Spit, E. head.                   | 50° 46.9' N<br>1° 21.8' W | <b>Fl.R.</b><br>period 5s   |               | 3                       | Red dolphin, white band.                                | Entrance channel beacons 5,<br>9, and 19 Fl.G. 4s, 12 and<br>20 Fl.R. 4s.  |
| 624<br>A 0555              | --Victoria pier, head.                     | 50° 42.5' N<br>1° 31.2' W | <b>2 F.G.</b> (vert.)   |               | 4                       | Column.   | 2 meters apart.  |
| 628<br>A 0562              | ---Range, front.                           | 50° 42.4' N<br>1° 30.1' W | <b>F.G.</b>   | 16<br>5       | 2                       | White metal post, white diamond<br>daymark, black band. |  |
| 632<br>A 0562.1            | ----Rear, 63 meters 187°57'<br>from front. | 50° 42.3' N<br>1° 30.1' W | <b>F.G.</b>   | 30<br>9       | 2                       | White mast, white diamond<br>daymark, black band.       |  |
| 636<br>A 0558              | ---Pier, head.                             | 50° 42.5' N<br>1° 30.0' W | <b>2 F.R.</b> (vert.)   |               | 2                       | Green metal column.                                     | 2 meters apart.<br>Street lights along pier.<br>3 high intensity F.W.<br>(occasional) shown.   |
| 640<br>A 0560              | ---Jetty, head.                            | 50° 42.4' N<br>1° 30.0' W | <b>2 F.R.</b>   | 13<br>4       | 2                       | White wooden mast.                                      | Second F.R. shown when<br>harbor is full.<br>F.Y. shown in fog.  |
| 641<br>A 0560.5            | ---Dolphin.                                | 50° 42.4' N<br>1° 30.1' W | <b>Q.G.</b>   |               | 3                       | Dolphin.  | Visible 175°-060°.   |
| <b>SOUTHAMPTON WATER:</b>  |  |                           |   |               |                         |   |  |
| 664<br>A 0577              | -Outfall.                                  | 50° 48.3' N<br>1° 18.8' W | <b>Iso.R.</b><br>period 10s   | 21<br>6       | 5                       | Metal mast, four-sided concrete<br>platform.            | <b>Radar reflector.</b>  |
|                            |  |                           | <b>4 F.R.</b>   | 13<br>4       | 1                       |   | 1 on each corner.  |
| 666<br>A 0580.6            | -Calshot, jetty, head.                     | 50° 49.2' N<br>1° 18.5' W | <b>2 F.R.</b> (vert.)   |               |                         |   |  |
| 685<br>A 590.11            | --Hamble Common, 351°42'.                  | 50° 51.0' N<br>1° 18.9' W | <b>Dir.W.R.G.</b><br>period 12s   | 16<br>5       | 4                       | Gray metal pole.  | Oc.(2)G. 348°42'-350°42',<br>Oc.(2)W.-352°42',<br>Oc.(2)R.-354°42'.  |

| (1)<br>No.                 | (2)<br>Name and Location  | (3)<br>Position           | (4)<br>Characteristic              | (5)<br>Height | (6)<br>Range | (7)<br>Structure  | (8)<br>Remarks  |
|----------------------------|---|---------------------------|------------------------------------|---------------|--------------|---|---|
| <b>ENGLAND-SOUTH COAST</b> |   |                           |                                    |               |              |   |   |
| 688<br>A 0590.14           | --No 1.   | 50° 50.4' N<br>1° 18.6' W | <b>Q.G.</b>                        | 7<br>2        | 2            | Green beacon.   | <b>Radar reflector.</b>   |
| 692<br>A 0590.16           | --No 2.   | 50° 50.4' N<br>1° 18.8' W | <b>Q.(3)W.</b><br>period 10s       | 7<br>2        | 2            | E. CARDINAL<br>BYB, beacon, topmark.                                      |   |
| 698<br>A 0590.22           | --Sailing Club, 028°54'.  | 50° 51.1' N<br>1° 18.3' W | <b>Dir.Iso.W.R.G.</b><br>period 6s | 16<br>5       | 4            | Gray metal pole.  | G. 025°54'-027°54', W.-<br>029°54', R.-031°54'.   |
| 728<br>A 0594              | -BP Hamble Jetty.   | 50° 50.9' N<br>1° 19.5' W | <b>2 F.G.</b> (vert.)              | 16<br>5       | 2            | Gray post; 3.   | 2 meters apart.<br>Three 2 F.G. (vert.) on posts<br>mark dolphin.   |
| 732<br>A 0596              | -Prohibited Anchorage, Dir. Lt.<br>032°49'.   | 50° 51.4' N<br>1° 19.7' W | <b>F.Y.</b>                        |               |              |   | Uses moiré effect pattern to<br>indicate center line.   |
| 740<br>A 0586              | -Fawley Marine Terminal, SE.<br>head.   | 50° 50.0' N<br>1° 19.4' W | <b>2 F.R.</b> (vert.)              | 30<br>9       | 10           |   | 2 meters apart.<br>Seven 2 F.R. (vert.) on piles<br>mark oil spill containment<br>boom.<br>F.R. on chimneys 1.5 miles<br>WSW. |
| 740.5<br>A 0587            | --Esso Marine Terminal,<br>Range, front.  | 50° 50.3' N<br>1° 19.9' W | <b>F.G.</b>                        |               |              |   | Visible 305°-335°.<br>Indicates centerline of<br>dredged channel.   |
| 740.7<br>A 0587.1          | ---Rear, 450 meters 320° from<br>front.   | 50° 50.5' N<br>1° 20.1' W | <b>F.G.</b>                        |               |              |   | Visible 305°-335°.  |
| 741<br>A 0588              | --Off NW. head.   | 50° 50.7' N<br>1° 20.2' W | <b>2 F.R.</b> (vert.)              |               |              | Dolphin.  |   |
| 744<br>A 0581.9            | -Inshore Range, front.  | 50° 51.3' N<br>1° 20.3' W | <b>Fl.W.</b><br>period 2s          | 16<br>5       | 3            | Metal tower, red and white<br>triangular daymark point up.                |   |
| 748<br>A 0582              | --Common rear, about 981<br>meters 326°07' from<br>Inshore, front, 327°25' from<br>Offshore, front. | 50° 51.8' N<br>1° 20.7' W | <b>Q.Y.</b>                        | 26<br>8       | 5            | Metal tower, red and white<br>diamond daymark.                            |   |
| 752<br>A 0582.1            | -Offshore Range, front.   | 50° 51.3' N<br>1° 20.3' W | <b>Fl.W.</b><br>period 2s          | 16<br>5       | 3            | Metal tower, red and white ball<br>daymark.                               |   |
| 756<br>A 0599              | -Coastal Forces Base,<br>Admiralty jetty, off head.   | 50° 52.2' N<br>1° 23.2' W | <b>2 F.R.</b> (vert.)              |               |              | Dolphin.  | 2 F.R. (vert.) on dolphin 30<br>meters ENE.   |
| 760<br>A 0601              | -Hythe, pier, head.   | 50° 52.5' N<br>1° 23.6' W | <b>2 F.R.</b> (vert.)              | 39<br>12      | 5            | Mast; 30.   | 2 meters apart.<br>Tide gauge.  |
| SOUTHAMPTON:               |   |                           |                                    |               |              |   |   |
| -River Itchen:             |   |                           |                                    |               |              |   |   |
| 768<br>A 0602              | --Queen Elizabeth II Terminal,<br>S. head.  | 50° 53.0' N<br>1° 23.7' W | <b>4 F.G.</b> (vert.)              | 53<br>16      | 3            | Framework tower; 52.  | 2 meters apart.   |
| 772<br>A 0604              | --E. side, No 1.  | 50° 53.2' N<br>1° 23.4' W | <b>Q.G.</b>                        |               |              | STARBOARD (A)<br>G, dolphin, topmark.                                     |   |
| 776<br>A 0605.5            | ---No 3.  | 50° 53.5' N<br>1° 23.3' W | <b>Fl.G.</b><br>period 7s          |               |              | STARBOARD (A)<br>G, dolphin, topmark.                                     |   |
| 780<br>A 0605              | --No 2, about 251 meters 099°<br>from N. head of Empress<br>Dock.                                   | 50° 53.3' N<br>1° 23.4' W | <b>Fl.G.</b><br>period 5s          |               | 2            | STARBOARD (A)<br>G, beacon, topmark.                                      |   |
| 784<br>A 0612              | --Empress Dock entrance, N.<br>side.  | 50° 53.3' N<br>1° 23.6' W | <b>2 F.G.</b> (vert.)              | 26<br>8       | 3            | Gray metal framework tower,<br>yellow triangular daymark<br>point up; 20. | Visible 246°-000°.  |
| 788<br>A 0612.2            | -RoRo Terminal S.   | 50° 53.4' N<br>1° 23.5' W | <b>2 F.R.</b> (vert.)              |               |              |   | 2 meters apart.   |
| 792<br>A 0612.4            | --N.  | 50° 53.4' N<br>1° 23.5' W | <b>2 F.R.</b> (vert.)              |               |              |   | 2 meters apart.   |

| (1)<br>No.                 | (2)<br>Name and Location                           | (3)<br>Position           | (4)<br>Characteristic                    | (5)<br>Height | (6)<br>Range | (7)<br>Structure   | (8)<br>Remarks  |
|----------------------------|--|---------------------------|--|---------------|--------------|--|---|
| <b>ENGLAND-SOUTH COAST</b> |  |                           |  |               |              |  |   |
| 800<br>A 0614              | --Beacon No 4, E. side of river.                   | 50° 53.6' N<br>1° 23.2' W | <b>Q.G.</b>                              | 13<br>4       | 2            | STARBOARD (A)<br>G, beacon, topmark.                                       | <b>Radar reflector.</b>   |
| 804<br>A 0618              | --Bridge center.                                   | 50° 53.9' N<br>1° 23.1' W | <b>F.W.</b>                              |               |              |  | Visible up and down river to<br>mark main channel.  |
| 808<br>A 0618.2            | --W. pier.   | 50° 53.9' N<br>1° 23.1' W | <b>2 F.R.</b> (vert.)                    |               | 2            | Pile.  | 2 meters apart on N. and S.<br>sides of bridge.   |
| 812<br>A 0618.4            | --E. pier.   | 50° 53.9' N<br>1° 23.0' W | <b>2 F.G.</b> (vert.)                    |               | 2            | Pile.  | 2 meters apart on N. and S.<br>sides of bridge.   |
| 816<br>A 0620.5            | --Crosshouse beacon.                               | 50° 54.0' N<br>1° 23.2' W | <b>Oc.R.</b><br>period 5s                | 16<br>5       | 2            | PORT (A)<br>R, pile, topmark.  | Marks power cable.<br>Private light.  |
| 820<br>A 0620.7            | --Chapel beacon.                                   | 50° 54.2' N<br>1° 23.2' W | <b>Fl.G.</b><br>period 3s                | 16<br>5       | 3            | STARBOARD (A)<br>G, beacon, topmark; 16.                                   | 2 F.R. (vert.) on beacons A<br>and C 80 meters W.   |
| 828<br>A 0621              | --Northam, oil jetty, head.                        | 50° 54.5' N<br>1° 22.6' W | <b>2 F.R.</b> (vert.)                    | 13<br>4       |              | Metal column.  | 2 meters apart.   |
| 832<br>A 0621.2            | --Millstone Point, jetty, head.                    | 50° 54.6' N<br>1° 22.6' W | <b>2 F.R.</b> (vert.)                    | 23<br>7       |              |  | 2 meters apart.<br>2 F.R. (vert.) also mark N.<br>end.<br>F.R. marks tower on head of<br>jetty. |
| 844<br>A 0626              | --Town Quay Range, front.                          | 50° 53.6' N<br>1° 24.3' W | <b>F.W.</b><br><br><b>2 F.G.</b> (vert.) | 40<br>12      | 3            | Radio mast; 115.   |   |
| 848<br>A 0626.1            | --Royal Pier, rear, 410 meters<br>329° from front. | 50° 53.7' N<br>1° 24.5' W | <b>F.W.</b>                              | 72<br>22      | 2            | Metal framework tower, white<br>neon diamond daymark, red<br>border; 75.   |   |
| 854<br>A 0628.6            | --Ferry Terminal, outer<br>pontoon, head.          | 50° 53.7' N<br>1° 24.4' W | <b>2 F.G.</b> (vert.)                    |               |              |  |   |
| 864<br>A 0630              | --Pumping station Range, front.                    | 50° 54.0' N<br>1° 24.7' W | <b>Fl.G.</b><br>period 1.5s              | 79<br>24      |              | Red mast, yellow and black<br>bands, black triangular<br>daymark point up. |   |
| 868<br>A 0630.1            | --Rear, 110 meters 068° from<br>front.             | 50° 54.0' N<br>1° 24.6' W | <b>Fl.G.</b><br>period 1.5s              | 82<br>25      |              | Red mast, yellow and black<br>bands, black "X" daymark.                    |   |
| 872<br>A 0632              | --Marchwood Military Port, jetty,<br>head.         | 50° 53.7' N<br>1° 25.3' W | <b>2 F.R.</b> (vert.)                    |               |              |  |   |
| 873<br>A 0632.2            | ---Jetty, head.                                    | 50° 53.7' N<br>1° 25.1' W | <b>2 F.R.</b> (vert.)                    |               |              |  |   |
| 874<br>A 0632.3            | ---Jetty, head.                                    | 50° 53.6' N<br>1° 25.2' W | <b>2 F.R.</b> (vert.)                    |               |              |  |   |
| 884<br>A 0633              | --Husband's jetty.                                 | 50° 53.9' N<br>1° 25.6' W | <b>2 F.R.</b> (vert.)                    | 31<br>9       | 2            | Dolphin.   | 2 meters apart.   |
| 888<br>A 0637              | --Upper Swinging Ground<br>Range, front.           | 50° 54.5' N<br>1° 26.3' W | <b>F.W.</b>                              | 85<br>26      |              | Yellow mast, black and red<br>bands, black triangular<br>daymark point up. |   |
| 892<br>A 0637.1            | ---Rear, 70 meters 011° from<br>front.             | 50° 54.5' N<br>1° 26.3' W | <b>F.W.</b>                              | 89<br>27      |              | Yellow mast, black and red<br>bands, black "X" daymark.                    |   |
| 896<br>A 0640              | --Container berths, SE. corner.                    | 50° 54.2' N<br>1° 26.8' W | <b>2 F.G.</b> (vert.)                    |               |              |  |   |
| 912<br>A 0645              | --Transit beacon A.                                | 50° 54.7' N<br>1° 28.0' W | <b>F.R.</b>                              |               |              | Framework tower, red triangular<br>daymark point up; 33.                   |   |
| 916<br>A 0646              | ---B.  | 50° 54.7' N<br>1° 28.0' W | <b>F.R.</b>                              |               |              | Framework tower, red diamond<br>daymark; 39.                               |   |

| (1)<br>No.                 | (2)<br>Name and Location              | (3)<br>Position           | (4)<br>Characteristic   | (5)<br>Height | (6)<br>Range          | (7)<br>Structure                      | (8)<br>Remarks  |
|----------------------------|---------------------------------------|---------------------------|---|---------------|-----------------------|---------------------------------------|---|
| <b>ENGLAND-SOUTH COAST</b> |                                       |                           |   |               |                       |                                       |   |
| ISLE OF WIGHT:             |                                       |                           |   |               |                       |                                       |   |
| 924<br>A 0654              | --Cowes, breakwater, head.            | 50° 45.9' N<br>1° 17.5' W | <b>2 F.R.</b> (vert.)   |               | 3                     |                                       |   |
| 936<br>A 0652              | --Watch House Landing.                | 50° 45.9' N<br>1° 17.8' W | <b>Iso.W.</b><br>period 2s  | 10<br>3       | 6                     | Post.                                 |   |
| 942<br>A 0664              | --Wootton.                            | 50° 44.5' N<br>1° 12.1' W | <b>Q.W.</b>   |               | 1                     | N. CARDINAL<br>BY, beacon, topmark.   | Channel marked by lights.   |
| 942.1<br>A 0665.8          | ---Car Ferry Terminal.                | 50° 44.0' N<br>1° 12.9' W | <b>Dir.Oc.W.R.G.</b><br>period 10s<br>lt. 8s, ec. 2s  |               |                       |                                       | G. 220°48'-224°18', W.-<br>225°48', R.-230°48'.   |
| 943<br>A 0762              | --Bembridge Harbor.                   | 50° 42.5' N<br>1° 05.0' W | <b>Fl.Y.</b><br>period 2s   |               | 1                     | SPECIAL<br>Y, pile, "X" topmark.      | Tide gauge.   |
| 944<br>A 0760              | --St. Helen's Fort.                   | 50° 42.3' N<br>1° 05.0' W | <b>Fl.(3)W.</b><br>period 10s<br>fl. 0.5s, ec. 1s<br>fl. 0.5s, ec. 1s<br>fl. 0.5s, ec. 6.5s | 53<br>16      | 8                     | Large round stone structure.          |   |
| PORTSMOUTH:                |                                       |                           |   |               |                       |                                       |   |
| 948<br>A 0688              | -Spit Sand Fort, N. side.             | 50° 46.2' N<br>1° 05.9' W | <b>Fl.R.</b><br>period 5s<br>fl. 0.7s, ec. 4.3s   | 59<br>18      | 7                     | Large round stone structure.          |   |
| 952<br>A 0686              | -South Parade pier.                   | 50° 46.7' N<br>1° 04.5' W | <b>2 F.G.</b> (vert.)   | 16<br>5       | 1                     | Posts; 10.                            | One at each corner of<br>pierhead.  |
| 956<br>A 0691              | --Southsea Castle, N. corner.         | 50° 46.7' N<br>1° 05.3' W | <b>Iso.W.</b><br>period 2s  | 52<br>16      | 11                    | White stone tower, black band;<br>33. | Visible 337°-071°.  |
|                            | ---001°30'.                           |                           | <b>Dir.W.R.G.</b>   | 36<br>11      | W. 13<br>R. 5<br>G. 5 |                                       | F.G. 351°30'-357°30',<br>Al.W.G.-000° (W. phase<br>increasing with bearing),<br>F.W.-003°, Al.W.R.-<br>005°30' (R. phase<br>increasing with bearing),<br>F.R.-011°30'.<br>Shown 24 hours.   |
| 960<br>A 0692.5            | -Fort Blockhouse, 320°.               | 50° 47.4' N<br>1° 06.7' W | <b>Dir.W.R.G.</b>   | 19<br>6       | W. 13<br>R. 5<br>G. 5 | Base of mast.                         | Oc.G. 310°-316°, Al.W.G.-<br>318°30' (W. phase<br>increasing with bearing),<br>Oc.W.-321°30', Al.W.R.-<br>324° (R. phase increasing<br>with bearing), Oc.R.-330°.<br>Shown 24 hours.<br>Traffic signals.<br>2 F.R. (vert.) 20 meters E. |
| 964<br>A 0696              | --Victoria, pier, head.               | 50° 47.3' N<br>1° 06.4' W | <b>2 F.G.</b> (vert.)   | 16<br>5       |                       | Metal columns.                        | 4 F.R. lights near Clarence<br>Monument.  |
| 968<br>A 0698              | --Off Victoria pile.                  | 50° 47.3' N<br>1° 06.5' W | <b>Oc.G.</b><br>period 15s  |               | 1                     | Green pile.                           |   |
| 972<br>A 0700              | --The Point.                          | 50° 47.6' N<br>1° 06.6' W | <b>Q.G.</b>   |               | 2                     | Pile; 16.                             |   |
| 974<br>A 0701              | ---Car Ferry Terminal.                | 50° 47.6' N<br>1° 06.4' W | <b>2 F.R.</b> (vert.)   |               |                       |                                       |   |
| 980<br>A 0704              | --Railway Landing, Stage, S.<br>head. | 50° 47.7' N<br>1° 06.5' W | <b>2 F.G.</b> (vert.)   | 16<br>5       | 3                     | Post; 7.                              |   |
| 984<br>A 0705              | --Common Hard, outer head.            | 50° 47.9' N<br>1° 06.6' W | <b>Fl.G.</b><br>period 5s   | 3<br>1        |                       | Wooden tripod.                        |   |
| 988<br>A 0707.4            | --Fountain Lake jetty, W. head.       | 50° 48.6' N<br>1° 06.2' W | <b>2 F.G.</b> (vert.)   |               |                       |                                       |   |

| (1)<br>No.                 | (2)<br>Name and Location              | (3)<br>Position           | (4)<br>Characteristic                           | (5)<br>Height      | (6)<br>Range | (7)<br>Structure  | (8)<br>Remarks   |
|----------------------------|---------------------------------------|---------------------------|---|--------------------|--------------|---|--|
| <b>ENGLAND-SOUTH COAST</b> |                                       |                           |   |                    |              |   |  |
| 992<br>A 0720              | --Priddy's Hard, Powder jetty, head.  | 50° 48.6' N<br>1° 07.5' W | <b>2 F.R.</b> (vert.)                           |                    |              | Pile.   |  |
| 996<br>A 0722.2            | --Shell pier, head.                   | 50° 48.4' N<br>1° 07.3' W | <b>2 F.R.</b> (vert.)                           | 40<br>12           |              | Radar mast; 30.   | 1 meter apart.   |
| 998<br>A 0692.8            | --Harbor Entrance.                    | 50° 47.9' N<br>1° 07.0' W | <b>Iso.W.R.G.</b>                               | 7<br>2             | 1            | Concrete dolphin; 13.   | G. 322°30'-330°, Al.W.G.-332°30', W.-335°, Al.W.R.-337°30', R.-345°. Shown 24 hours.   |
|                            |                                       |                           | <b>2 F.R.</b> (vert.)                           | 26<br>8            |              |   | 2 meters apart.  |
| 1000<br>A 0726             | --Royal Clarence Yard Fort.           | 50° 48.1' N<br>1° 07.3' W | <b>2 F.R.</b> (vert.)                           |                    |              |   |  |
| 1004<br>A 0730             | --Fuel jetty, off NE. side.           | 50° 48.0' N<br>1° 07.0' W | <b>2 F.R.</b> (vert.)                           | 26<br>8<br>20<br>6 |              | Dolphin.  | 2 meters apart.  |
| 1020<br>A 0734             | --Gosport Landing stage, at each end. | 50° 47.7' N<br>1° 07.0' W | <b>2 F.R.</b> (vert.)                           | 20<br>6            | 2            | Mast; 16.   | 2 meters apart.<br>F.R. lights are shown from No. 1 and No. 2 jetties, Haslar Creek.   |
| 1024<br>A 0684             | --S. side.                            | 50° 46.0' N<br>1° 04.1' W | <b>Q.R.</b>                                     | 21<br>6            | 2            | Dolphin; 20.  | <b>Radar reflector.</b>  |
| 1028<br>A 0750             | Horse Sand Fort.                      | 50° 45.0' N<br>1° 04.4' W | <b>Iso.G.</b><br>period 2s                      | 69<br>21           | 8            | Large round stone structure.  |  |
| 1036<br>A 0782             | Eastney Point, Langstone Harbor.      | 50° 47.2' N<br>1° 01.7' W | <b>Q.R.</b>                                     | 6<br>2             | 2            | Pile beacon.  | F.R. on masts 610 meters and 670 meters WSW.<br>Fl.(2)W. 5s on Roway Wreck Pile 1.2 miles SSW.<br>F.R., Oc.(2)Y. 10s, and F.Y. lights shown 650 meters W. during firing exercises. |
| 1037<br>A 0782.08          | -Outfall jetty, head.                 | 50° 47.3' N<br>1° 01.7' W | <b>2 F.R.</b> (vert.)                           | 16<br>5            | 5            |   | 2 meters apart.  |
| 1044<br>A 0783.4           | Chichester Bar.                       | 50° 46.0' N<br>0° 56.4' W | <b>Fl.(2)R.</b><br>period 10s                   | 33<br>10           | 4            | PORT (A)<br>R, pile, topmark.                                       |  |
| 1046<br>A 0783.5           | West Pole Beacon.                     | 50° 45.4' N<br>0° 56.6' W | <b>Fl.R.</b><br>period 5s                       | 46<br>14           | 7            | PORT (A)<br>R, tripod, topmark.                                     |  |
| 1048<br>A 0780             | Nab.                                  | 50° 40.1' N<br>0° 57.2' W | <b>Fl.W.</b><br>period 10s<br>fl. 1s, ec. 9s    | 56<br>17           | 12           | Round concrete tower, white square daymark.<br>Helicopter platform. | <b>AIS</b> (MMSI No 992351136).<br><b>Horn:</b> 2 bl. ev. 30s (bl. 1.5s, si. 2s, bl. 1.5s, si. 25s).   |
|                            | RACON                                 |                           | <b>T(-)</b>                                     |                    | 10           |   | (3 & 10cm).  |
| ISLE OF WIGHT:             |                                       |                           |   |                    |              |   |  |
| 1052<br>A 0768             | -Sandown, pier, head.                 | 50° 39.0' N<br>1° 09.2' W | <b>2 F.R.</b> (vert.)                           | 23<br>7            | 2            |   | 2 meters apart.  |
| 1056<br>A 0770             | -Shanklin.                            | 50° 38.0' N<br>1° 10.0' W | <b>Fl.R.</b><br>period 5s<br>fl. 0.3s, ec. 4.7s | 10<br>3            | 3            | PORT (A)<br>R, beacon, topmark.                                     | <b>Radar reflector.</b>  |
| 1064<br>A 0774             | <b>-St. Catherine's Point.</b>        | 50° 34.5' N<br>1° 17.9' W | <b>Fl.W.</b><br>period 5s<br>fl. 1s, ec. 4s     | 135<br>41          | 25           | White octagonal tower, dwelling; 85.                                | Visible 257°-117°. Shown 24 hours.<br><b>DGPS Station.</b>   |
|                            |                                       |                           | <b>F.R.</b>                                     | 115<br>35          | 13           |   | Visible 099°-116°.   |
| 1066<br>A 0790             | The Mixon.                            | 50° 42.4' N<br>0° 46.3' W | <b>Q.(6)+L.Fl.W.</b><br>period 15s              |                    | 2            | S. CARDINAL<br>YB, beacon, topmark.                                 |  |
| 1072<br>A 0794             | Bognor Regis, pier, head.             | 50° 46.7' N<br>0° 40.5' W | <b>2 F.R.</b> (vert.)                           |                    |              |   |  |

| (1)<br>No.                 | (2)<br>Name and Location                                   | (3)<br>Position           | (4)<br>Characteristic                           | (5)<br>Height | (6)<br>Range | (7)<br>Structure                          | (8)<br>Remarks   |
|----------------------------|--|---------------------------|---|---------------|--------------|---|--|
| <b>ENGLAND-SOUTH COAST</b> |  |                           |   |               |              |   |  |
| LITTLEHAMPTON:             |  |                           |   |               |              |   |  |
| 1076<br>A 0800             | -W. pier, head.  | 50° 47.9' N<br>0° 32.5' W | <b>Q.R.</b>                                     |               | 23<br>7      | 6 Black metal column.                     |  |
| 1078<br>A 0800.5           | -Training Wall, head.                                      | 50° 47.9' N<br>0° 32.4' W | <b>Q.G.</b>                                     |               | 16<br>5      | 6 STARBOARD (A)<br>G, beacon, topmark.    |  |
| 1080<br>A 0801             | -E. pier Range, front.                                     | 50° 48.1' N<br>0° 32.5' W | <b>F.G.</b>                                     |               | 19<br>6      | 7 Black metal column.                     |  |
| 1084<br>A 0801.1           | --Rear, 64 meters 346° from front.                         | 50° 48.1' N<br>0° 32.5' W | <b>Oc.W.</b><br>period 7.5s<br>lt. 6s, ec. 1.5s |               | 30<br>9      | 10 White concrete tower.                  | Visible 290°-042°.   |
| 1088<br>A 0804             | -Fisherman's quay.   | 50° 48.4' N<br>0° 32.7' W | <b>Fl.G.</b><br>period 3s<br>fl. 1s, ec. 2s     |               | 13<br>4      | 5 Black metal column; 10.                 | Visible 320°-032°.   |
| 1092<br>A 0808             | -Swing bridge, SW. fenders.                                | 50° 48.6' N<br>0° 33.0' W | <b>2 F.R.</b> (vert.)                           |               | 10<br>3      | 2   | 1 meter apart.<br>Traffic signals.<br>Marks upstream and downstream ends.                    |
| 1096<br>A 0808.2           | --NE. fenders.   | 50° 48.6' N<br>0° 33.0' W | <b>2 F.G.</b> (vert.)                           |               | 10<br>3      | 2   | 1 meter apart.<br>Marks upstream and downstream ends.  |
| 1098<br>A 0809             | -Littlehampton.  | 50° 46.2' N<br>0° 29.5' W | <b>Fl.(5)Y.</b><br>period 20s                   |               | 30<br>9      | 5 Pile.                                   | Meteorological station.  |
| 1100<br>A 0810             | Worthing, on pier.   | 50° 48.4' N<br>0° 22.1' W | <b>2 F.R.</b> (vert.)                           |               | 20<br>6      | 1 Column; 13.                             |  |
| SHOREHAM:                  |  |                           |   |               |              |   |  |
| 1104<br>A 0813             | -E. breakwater, head.                                      | 50° 49.5' N<br>0° 14.8' W | <b>Fl.G.</b><br>period 5s                       |               | 23<br>7      | 8 Green concrete column; 10.              | <b>Siren:</b> 1 bl. ev. 120s (bl. 3s, si. 117s).   |
| 1108<br>A 0812             | -W. breakwater, head.                                      | 50° 49.5' N<br>0° 14.9' W | <b>Fl.R.</b><br>period 5s                       |               | 23<br>7      | 7 Red concrete column; 10.                |  |
| 1112<br>A 0814             | -On apex of middle pier Range, front.                      | 50° 49.7' N<br>0° 14.9' W | <b>Oc.W.</b><br>period 5s<br>lt. 3s, ec. 2s     |               | 26<br>8      | 10 White square building, orange top; 20. | Traffic signals.<br>Tide signal.   |
| 1116<br>A 0814.1           | --Rear, within upper entrance, 192 meters 355° from front. | 50° 49.8' N<br>0° 14.9' W | <b>Fl.W.</b><br>period 10s<br>fl. 1s, ec. 9s    |               | 43<br>13     | 10 Gray round stone tower; 39.            | Visible 283°-103°.<br>R. lights on radio mast 160 meters N.<br>Traffic signals 800 meters E. |
| 1120<br>A 0822             | Brighton, head of Marine Palace pier (E. pier).            | 50° 48.9' N<br>0° 08.2' W | <b>2 F.R.</b> (vert.)                           |               | 33<br>10     | 2 Mast, hut; 23.                          |  |
| 1121<br>A 0826             | Brighton Marina, W. breakwater, head.                      | 50° 48.5' N<br>0° 06.4' W | <b>Q.R.</b>                                     |               | 33<br>10     | 7 White round structure, red bands.       | <b>Horn:</b> 2 bl. ev. 30s.  |
| 1122<br>A 0825             | -E. breakwater, head.                                      | 50° 48.6' N<br>0° 06.4' W | <b>Fl.(4)W.R.</b><br>period 20s                 |               | 52<br>16     | W. 10<br>R. 8 White pillar, green bands.  | R. 260°-295°, W.-100°.<br>White lights shown inside of breakwater walls.                     |
| 1123<br>A 0825.2           | -Breakwater, head.   | 50° 48.6' N<br>0° 06.4' W | <b>Q.G.</b>                                     |               | 26<br>8      | 7   |  |
| 1128<br>A 0839             | <b>GREENWICH LIGHTSHIP.</b>                                | 50° 24.5' N<br>0° 00.1' W | <b>Fl.W.</b><br>period 5s<br>fl. 0.5s, ec. 4.5s |               |              | 15 Tower, red hull; 39.                   | F.W. riding light.<br><b>Horn:</b> 1 bl. ev. 30s (bl. 3s, si. 27s).                          |
|                            | RACON  |                           | <b>M(—)</b><br>period 20s                       |               |              | 10  | (3 & 10cm).  |
| NEWHAVEN:                  |  |                           |   |               |              |   |  |
| 1132<br>A 0832             | -E. pier, head.  | 50° 46.8' N<br>0° 03.6' E | <b>Q.G.</b>                                     |               | 39<br>12     | 5 White metal pole, green bands; 39.      |  |

| (1)<br>No.                 | (2)<br>Name and Location               | (3)<br>Position           | (4)<br>Characteristic  | (5)<br>Height | (6)<br>Range | (7)<br>Structure  | (8)<br>Remarks  |
|----------------------------|--|---------------------------|--|---------------|--------------|---|---|
| <b>ENGLAND-SOUTH COAST</b> |  |                           |  |               |              |   |   |
| 1136<br><i>A 0830</i>      | -Breakwater, head.                     | 50° 46.5' N<br>0° 03.5' E | <b>Oc.(2)W.</b><br>period 10s<br>lt. 1s, ec. 1s<br>lt. 7s, ec. 1s  | 56<br>17      | 12           | White round concrete tower, red base; 46.                     |   |
| 1140<br><i>A 0840</i>      | Beachy Head.                           | 50° 44.0' N<br>0° 14.5' E | <b>Fl.(2)W.</b><br>period 20s<br>fl. 1s, ec. 3s<br>fl. 1s, ec. 15s | 102<br>31     | 8            | White round tower, red band, lantern; 141.                    | Visible 248°-101°.  |
| 1144<br><i>A 0843</i>      | Royal Sovereign.                       | 50° 43.5' N<br>0° 26.1' E | <b>Fl.W.</b><br>period 20s<br>fl. 1.4s, ec. 18.6s                  | 93<br>28      | 12           | White tower, red band, cabin, column.<br>Helicopter platform. | Shown by day when fog signal is operating.<br><br><b>Nautophone:</b> 2 bl. ev. 30s (bl. 2s, si. 2s, bl. 2s, si. 24s). |
| 1148<br><i>A 0846</i>      | Eastbourne, pier, head.                | 50° 45.9' N<br>0° 17.7' E | <b>2 F.R.</b> (vert.)  | 26<br>8       | 2            | Metal column; 10.   |   |
| 1150<br><i>A 0848</i>      | Sovereign Harbor Marina.               | 50° 47.2' N<br>0° 19.8' E | <b>Fl.(3)W.</b><br>period 15s                                      | 39<br>12      | 7            | Concrete tower.   |   |
| 1152<br><i>A 0848.5</i>    | -258°.                                 | 50° 47.2' N<br>0° 19.8' E | <b>Dir.W.R.G.</b><br>period 3s<br>fl. 0.3s, ec. 2.7s               | 13<br>4       | 1            |   | Fl.G. 252°30'-256°30', Fl.W.-259°30', Fl.R.-262°30'.  |
| 1153<br><i>A 0848.1</i>    | -S. breakwater, head.                  | 50° 47.3' N<br>0° 20.1' E | <b>Fl.(4)R.</b><br>period 12s                                      | 10<br>3       | 6            |   |   |
| 1154<br><i>A 0848.2</i>    | -N. breakwater, head.                  | 50° 47.3' N<br>0° 20.1' E | <b>Fl.G.</b><br>period 5s  | 10<br>3       | 6            |   |   |
| 1160                       | <i>CS2 Buoy.</i>                       | 50° 39.0' N<br>0° 32.7' E | <b>Fl.Y.</b><br>period 5s  |               |              | SPECIAL<br>Y, pillar, topmark.                                | <b>Whistle.</b>   |
| HASTINGS:                  |  |                           |  |               |              |   |   |
| 1164<br><i>A 0858</i>      | -Beach Range, front.                   | 50° 51.3' N<br>0° 35.4' E | <b>F.R.</b>  | 46<br>14      | 4            | White metal column; 26.                                       |   |
| 1168<br><i>A 0858.1</i>    | --Rear, 357 meters 356°18' from front. | 50° 51.5' N<br>0° 35.4' E | <b>F.R.</b>  | 180<br>55     | 4            | White pentagonal tower; 20.                                   |   |
| 1172<br><i>A 0856</i>      | -W. breakwater, head.                  | 50° 51.2' N<br>0° 35.6' E | <b>Fl.R.</b><br>period 2.5s  | 16<br>5       | 4            | Mast; 13.   |   |
| 1176<br><i>A 0854</i>      | -Hastings Pier, head                   | 50° 51.1' N<br>0° 34.4' E | <b>Q.R.</b>  |               | 2            | Metal pole.   |   |
| 1188                       | <i>-Fairway Buoy.</i>                  | 50° 54.0' N<br>0° 48.0' E | <b>L.Fl.W.</b><br>period 10s<br>fl. 2s, ec. 8s                     |               |              | SAFE WATER<br>RW, buoy, topmark.                              | <b>Radar reflector.</b>   |
| 1192<br><i>A 0866</i>      | -E. bank No 3.                         | 50° 55.9' N<br>0° 46.3' E | <b>Q.G.</b>  | 10<br>3       | 2            | STARBOARD (A)<br>G, tripod, topmark; 10.                      |   |
| 1196<br><i>A 0867</i>      | -W. bank No 6.                         | 50° 55.7' N<br>0° 46.5' E | <b>Q.R.</b>  | 10<br>3       | 2            | Red wooden pile; 10.  | Lights shown upstream.  |
| 1200<br><i>A 0866.3</i>    | --No 7.                                | 50° 56.0' N<br>0° 46.3' E | <b>Q.G.</b>  | 10<br>3       | 2            | Wooden piles, green triangular daymark point up.              |   |
| 1204<br><i>A 0866.5</i>    | --No 9.                                | 50° 56.1' N<br>0° 46.2' E | <b>Q.G.</b>  | 10<br>3       | 2            | Wooden piles, green triangular daymark point up.              |   |
| 1208<br><i>A 0866.7</i>    | --No 11.                               | 50° 56.2' N<br>0° 46.0' E | <b>Q.G.</b>  | 10<br>3       | 6            | Wooden structure, green triangular daymark point up; 10.      | Traffic signals.  |
| 1212<br><i>A 0864.5</i>    | -E. pier No 1, head.                   | 50° 55.8' N<br>0° 46.5' E | <b>Q.(9)W.</b><br>period 15s                                       | 23<br>7       | 5            | Metal structure, green triangular daymark point up; 16.       | <b>Horn:</b> 1 bl. ev. 7s (bl. 1s, si. 29s).  |
| 1216<br><i>A 0864</i>      | -West Groyne, head.                    | 50° 55.6' N<br>0° 46.6' E | <b>Fl.R.</b><br>period 5s  | 23<br>7       | 6            | Wooden tripod; 30.  | <b>Radar reflector.</b>   |

| (1)<br>No.                 | (2)<br>Name and Location         | (3)<br>Position           | (4)<br>Characteristic   | (5)<br>Height | (6)<br>Range   | (7)<br>Structure  | (8)<br>Remarks   |
|----------------------------|----------------------------------|---------------------------|---|---------------|----------------|---|--|
| <b>ENGLAND-SOUTH COAST</b> |                                  |                           |   |               |                |   |  |
| DOVER STRAIT:              |                                  |                           |   |               |                |   |  |
| 1220<br>A 0876             | <b>-Dungeness.</b>               | 50° 54.8' N<br>0° 58.5' E | <b>Fl.W.</b><br>period 10s<br>fl. 0.1s, ec. 9.9s  | 131<br>40     | 21             | Black round tower, white bands,<br>lantern; 141.<br>Floodlit. | Visible 120°-078°.<br>Shown 24 hours.<br><b>Horn:</b> 3 bl. ev. 60s (bl. 2s, si.<br>2s, bl. 2s, si. 2s, bl. 2s, si.<br>50s). Horn points 130°.           |
|                            |                                  |                           | <b>F.R.G.</b>   | 122<br>37     | 10             |   | R. 057°-073°, G.-078°, R.<br>196°-216°.  |
| 1224<br>A 0897.5           | <b>-VARNE LIGHTSHIP.</b>         | 51° 01.2' N<br>1° 24.0' E | <b>Fl.R.</b><br>period 5s<br>fl. 0.5s, ec. 4.5s   |               | 15             | Red hull, light tower amidships;<br>39.                       | <b>AIS</b> (MMSI No 992351038).<br><b>Horn:</b> 1 bl. ev. 30s (bl. 2s, si.<br>28s).  |
|                            | -RACON                           |                           | <b>T(-)</b>   |               | 10             |   | (3 & 10cm).  |
|                            | -Folkestone:                     |                           |   |               |                |   |  |
| 1228<br>A 0892             | --Breakwater, head.              | 51° 04.6' N<br>1° 11.7' E | <b>Fl.(2)W.</b><br>period 10s<br>fl. 0.5s, ec. 2s<br>fl. 0.5s, ec. 7s   | 46<br>14      | 22             | Tower; 43.  |  |
| 1232<br>A 0896             | --E. pier (Outer harbor).        | 51° 04.7' N<br>1° 11.5' E | <b>Q.G.</b>   |               |                | Metal column; 7.  |  |
| 1234<br>A 0898             | -Shakespeare Cliff, E. head.     | 51° 06.3' N<br>1° 16.9' E | <b>Fl.R.</b><br>period 5s<br>fl. 0.3s, ec. 4.7s   |               |                |   |  |
| 1234.1<br>A 0898.2         | -W. head.                        | 51° 06.1' N<br>1° 16.0' E | <b>Fl.R.</b><br>period 5s<br>fl. 0.3s, ec. 4.7s   |               |                |   |  |
|                            | -Dover:                          |                           |   |               |                |   |  |
| 1236<br>A 0900             | -- <b>Admiralty</b> pier.        | 51° 06.7' N<br>1° 19.7' E | <b>Fl.W.</b><br>period 7.5s<br>fl. 1s, ec. 6.5s   | 69<br>21      | 20             | White tower; 72.  | Visible 096°-090°, obscured<br>in the Downs by South<br>Foreland inshore of 226°.<br>Traffic signals.<br><b>Horn:</b> 1 bl. ev. 10s (bl. 2s, si.<br>8s). |
|                            |                                  |                           | <b>3 Fl.W.</b><br>period 7.5s   | 26<br>8       | 1              |   | Shown in fog.  |
| 1248<br>A 0912             | --S. pier, near head of N. side. | 51° 06.9' N<br>1° 18.9' E | <b>2 F.R.</b> (vert.)   | 16<br>5       |                | Beacon; 7.  | 2 meters apart.  |
| 1252<br>A 0914             | --N. pier, near head.            | 51° 07.0' N<br>1° 18.9' E | <b>3 F.G.</b> (vert.)   | 16<br>5       | 3              | Beacon; 7.  |  |
| 1256<br>A 0906             | --Train Ferry dock, jetty, head. | 51° 06.9' N<br>1° 19.0' E | <b>Q.R.</b>   | 23<br>7       |                | Post; 10.   |  |
| 1260<br>A 0915             | --N. pier, spur.                 | 51° 07.0' N<br>1° 18.8' E | <b>Oc.G.</b>  | 10<br>3       | 2              | Post; 7.  |  |
| 1268<br>A 0902             | --Prince of Wales pier, head.    | 51° 06.8' N<br>1° 19.4' E | <b>V.Q.G.</b>   | 46<br>14      | 4              | White tower; 46.  |  |
|                            |                                  |                           | <b>Fl.Y.</b><br>period 1.5s   |               |                |   | Occasional.  |
| 1272<br>A 0924             | --S. breakwater, W. head.        | 51° 06.8' N<br>1° 19.8' E | <b>Oc.R.</b><br>period 30s<br>lt. 27s, ec. 3s   | 69<br>21      | 18             | White tower; 69.  |  |
| 1276<br>A 0926             | --Knuckle of detached mole.      | 51° 07.0' N<br>1° 20.5' E | <b>Fl.(4)W.R.</b><br>period 10s<br>fl. 0.8s, ec. 1.2s<br>fl. 0.8s, ec. 1.2s<br>fl. 0.8s, ec. 1.2s<br>fl. 0.8s, ec. 3.2s | 49<br>15      | W. 15<br>R. 13 | White tower; 52.  | R. 059°-239°, W.-059°.   |



| (1)<br>No.                 | (2)<br>Name and Location              | (3)<br>Position           | (4)<br>Characteristic                           | (5)<br>Height   | (6)<br>Range | (7)<br>Structure               | (8)<br>Remarks   |
|----------------------------|---------------------------------------|---------------------------|---|-----------------|--------------|--------------------------------|--|
| <b>ENGLAND-SOUTH COAST</b> |                                       |                           |   |                 |              |                                |  |
| 1284<br><i>A 0935</i>      | --The Camber, Pier A, W. jetty, head. | 51° 07.5' N<br>1° 20.4' E | <b>Q.R.</b>                                     | 26<br><b>8</b>  |              | Mast.                          | Intensified in fog.<br><b>Siren:</b> 2 bl. ev. 10s.<br>Occasional.   |
| 1288<br><i>A 0936</i>      | --Pier B, head.                       | 51° 07.5' N<br>1° 20.3' E | <b>Fl.(2)R.</b><br>period 5s                    | 26<br><b>8</b>  |              |                                | Intensified in fog.<br><b>Siren:</b> 1 bl. ev. 5s (bl. 1s, si. 4s).<br>Occasional.   |
|                            | --Dover (E. entrance):                |                           |   |                 |              |                                |  |
| 1304<br><i>A 0928</i>      | ---Detached mole, N. head.            | 51° 07.2' N<br>1° 20.6' E | <b>Fl.R.</b><br>period 2.5s<br>fl. 1s, ec. 1.5s | 36<br><b>11</b> | 5            |                                | Fl.(2) W. 10s shown in fog.  |
| 1305<br><i>A 0929</i>      | ---Eastern Arm, head.                 | 51° 07.3' N<br>1° 20.6' E | <b>Fl.G.</b><br>period 5s                       | 39<br><b>12</b> | 5            |                                | Q.W. Shown in fog.<br>Traffic signals.<br><b>Horn:</b> 2 bl. ev. 30s (bl. 2s, si. 2s, bl. 2s, si. 24s).<br><b>Radar reflector.</b> |
| 1312<br><i>A 0950</i>      | -Deal pier, head.                     | 51° 13.4' N<br>1° 24.5' E | <b>2 F.R.</b> (vert.)                           | 23<br><b>7</b>  | 2            | Metal framework tower.         | 2 meters apart.  |
| 1316                       | -CS4 Buoy.                            | 51° 08.5' N<br>1° 34.0' E | <b>Fl.(4)Y.</b><br>period 15s                   |                 |              | SPECIAL<br>Y, pillar, topmark. | <b>Whistle.</b><br>Marks Area to be Avoided.   |

# Section 2

## East Coast of England Including Thames River and River Humber

| (1)<br>No.              | (2)<br>Name and Location            | (3)<br>Position           | (4)<br>Characteristic                                | (5)<br>Height | (6)<br>Range | (7)<br>Structure  | (8)<br>Remarks   |
|-------------------------|-------------------------------------|---------------------------|--|---------------|--------------|---|--|
| ENGLAND-EAST COAST      |                                     |                           |  |               |              |   |  |
| DOVER STRAIT:           |                                     |                           |  |               |              |   |  |
| 1324<br><i>A 0984</i>   | -- <b>EAST GOODWIN LIGHTFLOAT.</b>  | 51° 13.0' N<br>1° 36.3' E | <b>Fl.W.</b><br>period 15s<br>fl. 0.2s, ec. 14.8s    |               | 15           | Red hull, light tower amidships; 39.                            | Shown by day when fog signal is operating.<br><b>AIS</b> (MMSI No 992351035).<br><b>Horn:</b> 1 bl. ev. 30s (bl. 3s, si. 27s). |
|                         | --RACON                             |                           | <b>T(—)</b>  |               | 10           |   | (3 & 10cm).  |
| 1326                    | --MPC RACON.                        | 51° 06.1' N<br>1° 38.2' E | <b>O(— — —)</b>                                      |               | 10           |   | (3 & 10cm).  |
| -Goodwin Sands:         |                                     |                           |  |               |              |   |  |
| 1329                    | -- <i>NE. Goodwin Buoy.</i>         | 51° 20.3' N<br>1° 34.3' E | <b>Q.(3)W.</b><br>period 10s                         |               |              | E. CARDINAL<br>BYB, pillar, topmark.                            | <b>Whistle.</b>  |
|                         | --RACON                             |                           | <b>M(— —)</b>  |               | 10           |   | (3 & 10cm).  |
| 1330                    | -- <i>Outer Tongue Buoy.</i>        | 51° 30.7' N<br>1° 26.5' E | <b>L.Fl.W.</b><br>period 10s                         |               |              | SAFE WATER<br>RW, pillar, topmark.                              | <b>Whistle.</b>  |
|                         | --RACON                             |                           | <b>T(—)</b>  |               | 10           |   |  |
| FALLS BANK:             |                                     |                           |  |               |              |   |  |
| 1332                    | -- <i>Inter Bank Buoy.</i>          | 51° 16.5' N<br>1° 52.3' E | <b>Fl.Y.</b><br>period 5s                            |               |              | SPECIAL<br>Y, pillar, topmark.                                  |  |
|                         | --RACON                             |                           | <b>M(— —)</b>  |               | 10           |   | (3 & 10cm).  |
| 1336<br><i>A 0992</i>   | -- <b>FOXTROT 3 LIGHTSHIP.</b>      | 51° 23.8' N<br>2° 00.6' E | <b>Fl.W.</b><br>period 10s<br>fl. 0.2s, ec. 9.8s     |               | 15           | Red hull, light tower amidships; 39.                            | <b>AIS</b> (MMSI No 992351033).<br><b>Horn:</b> 1 bl. ev. 10s (bl. 1s, si. 9s).  |
|                         | --RACON                             |                           | <b>T(—)</b>  |               | 10           |   | (3 & 10cm).  |
| RAMSGATE:               |                                     |                           |  |               |              |   |  |
| 1348<br><i>A 0957.1</i> | --W. pier, head.                    | 51° 19.7' N<br>1° 25.3' E | <b>F.R.</b>  | 39<br>12      | 7            | Round granite tower; 36.  |  |
| 1349<br><i>A 0959</i>   | --N. breakwater, head.              | 51° 19.6' N<br>1° 25.5' E | <b>Q.G.</b>  | 33<br>10      | 5            | Green pillar, platform.   |  |
| 1350<br><i>A 0959.5</i> | --S. breakwater, head.              | 51° 19.4' N<br>1° 25.4' E | <b>V.Q.R.</b>  | 33<br>10      | 5            | Red pillar, platform.   |  |
| 1352<br><i>A 0958</i>   | --W. ferry terminal Range, front.   | 51° 19.5' N<br>1° 24.8' E | <b>Dir.Oc.W.R.G.</b><br>period 10s<br>lt. 8s, ec. 2s | 33<br>10      | 5            | White mast, black triangular daymark point up, orange stripe.   | G. 259°-269°, W.-271°, R.-281°.  |
| 1356<br><i>A 0958.1</i> | --Rear, 493 meters 270° from front. | 51° 19.5' N<br>1° 24.4' E | <b>Oc.W.</b><br>period 5s<br>lt. 3s, ec. 2s          | 56<br>17      | 5            | White mast, black triangular daymark point down, orange stripe. | Visible 263°-278°. V.Q.G. and Q.R. beacons mark channel to SW.   |
| 1360<br><i>A 0964</i>   | Broadstairs pier, SE. head.         | 51° 21.5' N<br>1° 26.7' E | <b>2 F.R.</b> (vert.)                                | 23<br>7       | 4            | Metal column; 16.   |  |

| (1)<br>No.  | (2)<br>Name and Location                        | (3)<br>Position           | (4)<br>Characteristic  | (5)<br>Height | (6)<br>Range            | (7)<br>Structure                                 | (8)<br>Remarks   |
|---|---|---------------------------|--|---------------|-------------------------|--|--|
| <b>ENGLAND-EAST COAST</b>                                 |   |                           |  |               |                         |  |  |
| 1364<br>A 0966  | North Foreland.                                 | 51° 22.5' N<br>1° 26.7' E | <b>Fl.(5)W.R.</b><br>period 20s<br>fl. 0.5s, ec. 1.1s<br>fl. 0.5s, ec. 1.1s<br>fl. 0.5s, ec. 1.1s<br>fl. 0.5s, ec. 1.1s<br>fl. 0.5s, ec. 13.1s | 187<br>57     | W. 19<br>R. 16<br>R. 15 | White octagonal tower; 85.                       | W. 094°-150°, R.(16M)-181°,<br>R.(15M)-200°, W.-011°. <b>AIS</b> (MMSI No 992351020). <b>DGPS Station.</b>   |
| 1368<br>A 1971  | Tide gauge.                                     | 51° 23.7' N<br>1° 22.7' E | <b>Q.W.</b>  |               | 3                       | N. CARDINAL<br>BY, beacon, topmark.              | Tide gauge.  |
| 1372<br>A 1972  | -Stone pier, head.                              | 51° 23.5' N<br>1° 22.7' E | <b>F.R.</b>  | 59<br>18      | 4                       | Stone tower; 66.                                 |  |
| 1376<br>A 1976  | Herne Bay.                                      | 51° 22.9' N<br>1° 06.9' E | <b>Q.W.</b>  | 59<br>18      | 4                       | Metal mast, concrete landing<br>stage; 49.       | Pier head isolated from shore.   |
| 1378<br>A 1977  | Kentish Flats.                                  | 51° 26.8' N<br>1° 04.7' E | <b>Fl.Y.</b><br>period 5s  | 43<br>13      | 5                       | Yellow framework mast, pile.                     | One on each side.<br><b>Horn:</b> Mo(U) 30s.<br><b>Radar reflector.</b>  |
|   |   |                           | <b>F.R.</b>  | 154<br>47     |                         |  |  |
|   |   |                           | <b>F.R.</b>  | 253<br>77     |                         |  |  |
| <b>ENGLAND-THAMES RIVER APPROACHES</b>                    |   |                           |  |               |                         |  |  |
| 1384<br>A 1979  | Whitstable, W. quay.                            | 51° 21.9' N<br>1° 01.5' E | <b>Fl.G.</b><br>period 5s  | 7<br>2        |                         | Dolphin.   |  |
| 1400<br>A 2009.7  | Isle of Grain.                                  | 51° 26.7' N<br>0° 43.4' E | <b>Q.W.</b>  | 66<br>20      | 13                      | Red tower, red and white<br>diamond daymark; 66. | <b>Radar reflector.</b>  |
| 1404<br>A 1996  | Sheerness, Garrison Point,<br>RoRo berth No 10. | 51° 26.9' N<br>0° 44.8' E | <b>2 F.R.</b> (vert.)  |               |                         | Dolphin.   | Reserve fog signal 310<br>meters SW.<br>R. light on radio mast 340<br>meters SSW.<br><b>Horn:</b> 3 bl. ev. 30s (bl. 2s, si.<br>3s, bl. 2s, si. 3s, bl. 2s, si.<br>18s). |
| 1413  | Sea Reach Buoy 1.                               | 51° 29.4' N<br>0° 52.7' E | <b>Fl.Y.</b><br>period 2.5s  |               |                         | SPECIAL<br>Y, pillar, topmark.                   |  |
|   | RACON   |                           | <b>T(-)</b><br>period 90s  |               | 10                      |  | (3 cm).  |
| 1417  | Sea Reach Buoy 7.                               | 51° 30.1' N<br>0° 37.2' E | <b>Fl.Y.</b><br>period 2.5s  |               |                         | SPECIAL<br>Y, pillar, topmark.                   |  |
|   | RACON   |                           | <b>T(-)</b><br>period 90s  |               | 10                      |  | (3 cm).  |
| <b>ENGLAND-THAMES RIVER APPROACHES FROM NORTHEASTWARD</b> |   |                           |  |               |                         |  |  |
| 1420<br>A 2170  | <b>SUNK CENTRE LIGHTFLOAT.</b>                  | 51° 50.1' N<br>1° 46.0' E | <b>Fl.(2)W.</b><br>period 20s<br>fl. 0.3s, ec. 4.8s<br>fl. 0.3s, ec. 14.6s   |               | 16                      | Red hull, light tower amidships;<br>39.          | Shown by day when fog signal<br>is operating.<br><b>AIS</b> (MMSI No 992351034).<br><b>Horn:</b> 2 bl. ev. 60s (bl. 2s, si.<br>2s, bl. 2s, si. 54s).                     |
|   | RACON   |                           | <b>C(- • - •)</b>  |               |                         |  |  |
| 1421<br>A 2172  | <b>SUNK INNER LIGHTFLOAT.</b>                   | 51° 51.0' N<br>1° 34.9' E | <b>Iso.W.</b><br>period 3s   |               | 12                      | Tower, red hull; 39.                             | <b>AIS</b> (MMSI No 992351027).<br><b>Horn:</b> 1 bl. ev. 30s (bl. 2s, si.<br>28s).  |
|   | RACON   |                           | <b>T(-)</b>  |               | 10                      |  | (3 & 10cm).  |

| (1)<br>No.  | (2)<br>Name and Location                | (3)<br>Position           | (4)<br>Characteristic         | (5)<br>Height | (6)<br>Range | (7)<br>Structure                        | (8)<br>Remarks   |
|---|---|---------------------------|-------------------------------|---------------|--------------|---|--|
| <b>ENGLAND-THAMES RIVER APPROACHES FROM NORTHEASTWARD</b> |   |                           |                               |               |              |   |  |
| 1422  | Buoy Barrow No 3.                       | 51° 42.0' N<br>1° 20.3' E | <b>Q.(3)W.</b><br>period 10s  |               |              | E. CARDINAL<br>BYB, pillar, topmark.    | <b>Bell.</b>   |
|   | RACON                                   |                           | <b>M(— —)</b>                 |               | 10           |   | (3 & 10cm).  |
| 1424<br>A 1956  | Long Sand Bank,<br>meteorological mast. | 51° 35.6' N<br>1° 23.1' E | <b>Mo.(U)W.</b><br>period 15s | 39<br>12      | 10           | Yellow metal framework tower.           | <b>Horn:</b> Mo.(U) ev. 30s.<br><b>Radar reflector.</b>  |
|   | AVIATION LIGHT.                         |                           | <b>F.R.</b>                   | 276<br>84     |              |   |  |
| <b>ENGLAND-EAST COAST</b>                                 |   |                           |                               |               |              |   |  |
| 1432<br>A 2184  | Brightlingsea Range, front.             | 51° 48.4' N<br>1° 01.3' E | <b>F.R.</b>                   | 23<br>7       | 4            | Post, white square daymark, red stripe. | Visible 020°-080°.   |
| 1436<br>A 2184.1  | -Rear, 50 meters 041° from front.       | 51° 48.4' N<br>1° 01.3' E | <b>F.R.</b>                   | 33<br>10      | 4            | Post, white square daymark, red stripe. |  |
| 1440<br>A 2187  | Bateman tower.                          | 51° 48.3' N<br>1° 00.8' E | <b>Fl.(3)W.</b><br>period 20s | 39<br>12      |              |   | F.R. shown on W. Bank of River Colne and 7 masts between 1.5 and 3 miles WNW. when firing in progress.         |
| 1444<br>A 2192  | Clacton-on-Sea, elbow of berthing arm.  | 51° 47.0' N<br>1° 09.5' E | <b>2 F.G.</b> (vert.)         | 16<br>5       | 4            | Mast.                                   | Shown at E. and W. ends and center of berthing arm.<br><b>Reed:</b> 2 bl. ev. 120s. When vessels are berthing. |
| 1448<br>A 2194  | Walton on the Naze pier, head.          | 51° 50.6' N<br>1° 16.8' E | <b>2 F.G.</b> (vert.)         | 17<br>5       | 2            | White post; 7.                          |  |
| 1451<br>A 2196.1  | Cork Sand.                              | 51° 55.5' N<br>1° 25.4' E | <b>V.Q.W.</b>                 |               | 2            | N. CARDINAL<br>BY, beacon, topmark.     |  |
| HARWICH HARBOR:   |   |                           |                               |               |              |   |  |
| -Felixstowe:  |   |                           |                               |               |              |   |  |
| 1468<br>A 2203.2  | --Dock entrance, N. head.               | 51° 57.0' N<br>1° 18.8' E | <b>2 F.G.</b> (vert.)         |               |              |   |  |
| 1470<br>A 2217.4  | --RoRo berth No 4.                      | 51° 56.9' N<br>1° 14.8' E | <b>2 F.R.</b> (vert.)         | 16<br>5       | 2            | Post.                                   | 1 meter apart.   |
| 1471<br>A 2217.42   | ---W.                                   | 51° 56.9' N<br>1° 14.7' E | <b>2 F.R.</b> (vert.)         | 16<br>5       | 2            | Post.                                   | 1 meter apart.   |
| 1484<br>A 2204  | --Navyard wharf, SE. corner.            | 51° 56.9' N<br>1° 17.5' E | <b>2 F.R.</b> (vert.)         | 36<br>11      |              |   | 2 F.R. (vert.) mark Groyne head 65 meters SSE.   |
| 1488<br>A 2204.15   | ---NE. corner.                          | 51° 56.9' N<br>1° 17.5' E | <b>2 F.R.</b> (vert.)         |               |              |   |  |
| 1492<br>A 2204.2  | ---N. corner.                           | 51° 57.0' N<br>1° 17.4' E | <b>2 F.R.</b> (vert.)         | 36<br>11      |              |   | 2 meters apart.  |
| 1500<br>A 2204.62   | ---N. side pontoon, W. head.            | 51° 57.0' N<br>1° 17.3' E | <b>2 F.R.</b> (vert.)         | 16<br>5       |              |   |  |
| 1504<br>A 2206  | --Town pier.                            | 51° 56.9' N<br>1° 17.2' E | <b>2 F.R.</b> (vert.)         | 20<br>6       |              | Tripod.                                 |  |
| 1508<br>A 2208  | --Trinity House pier.                   | 51° 56.9' N<br>1° 17.0' E | <b>2 F.R.</b> (vert.)         | 20<br>6       | 1            | Column; 23.                             | 2 meters apart.  |
| 1512.5<br>A 2213.3  | --Shotley Marina Entrance, E. side.     | 51° 57.3' N<br>1° 16.7' E | <b>Fl.(4)G.</b><br>period 15s |               |              | STARBOARD (A)<br>G, pile, topmark, 10.  |  |
| 1512.6<br>A 2213.35                                       | ---W. side.                             | 51° 57.3' N<br>1° 16.7' E | <b>V.Q.(3)W.</b><br>period 5s |               |              | E. CARDINAL<br>BYB, pile, topmark, 10.  |  |

| (1)<br>No.                | (2)<br>Name and Location        | (3)<br>Position           | (4)<br>Characteristic  | (5)<br>Height | (6)<br>Range | (7)<br>Structure                        | (8)<br>Remarks  |
|---------------------------|---------------------------------|---------------------------|--|---------------|--------------|---|---|
| <b>ENGLAND-EAST COAST</b> |                                 |                           |  |               |              |   |   |
| 1513<br>A 2213.5          | --Shotley Marina Lock, E. side. | 51° 57.5' N<br>1° 16.6' E | <b>F.Y.</b>  | 10<br>3       | 1            | Orange structure; 3.                    | Directional 339°30'.<br>Uses moiré effect pattern to<br>indicate dredged channel. |
| 1516<br>A 2222            | --Ganges pier.                  | 51° 57.2' N<br>1° 16.2' E | <b>2 F.G.</b> (vert.)  | 13<br>4       | 1            | Green wooden post; 7.                   |   |
| 1520<br>A 2222.5          | --Erwarton Ness.                | 51° 57.1' N<br>1° 13.2' E | <b>Q.(6)+L.F.I.W.</b><br>period 15s  |               | 4            | S. CARDINAL<br>YB, beacon, topmark.     |   |
| 1524<br>A 2222.6          | --No 2.                         | 51° 57.0' N<br>1° 10.2' E | <b>Q.W.</b>  |               |              | N. CARDINAL<br>BY, beacon, topmark.     |   |
| 1532<br>A 2223            | --Smith Shoal, No 6.            | 51° 57.0' N<br>1° 07.9' E | <b>Fl.(2)R.</b><br>period 5s   |               | 2            | Black beacon, red square<br>daymark.    |   |
| 1536<br>A 2214            | --Parkeston, quay, E.           | 51° 56.9' N<br>1° 15.7' E | <b>2 F.R.</b> (vert.)  | 7<br>2        | 2            | Black dolphin; 13.                      |   |
| 1546                      | Harwich Channel Buoy No 1.      | 51° 55.9' N<br>1° 26.8' E | <b>Fl.Y.</b><br>period 2.5s  |               |              | SPECIAL<br>Y, conical.                  |   |
|                           | RACON                           |                           | <b>T(—)</b>  |               | 10           |   | (3 & 10cm).   |
| 1554                      | S. Galloper Buoy.               | 51° 43.9' N<br>1° 56.5' E | <b>Q.(6)+L.F.I.W.</b><br>period 15s  |               |              | S. CARDINAL<br>YB, pillar, topmark.     | <b>Whistle.</b>   |
|                           | RACON                           |                           | <b>T(—)</b>  |               | 10           |   | (3 & 10cm).   |
| 1556                      | N. Shipwash Buoy.               | 52° 01.7' N<br>1° 38.4' E | <b>Q.W.</b>  |               |              | N. CARDINAL<br>BY, pillar, topmark; 18. | <b>Whistle.</b>   |
|                           | RACON                           |                           | <b>M(— —)</b>  |               | 10           |   | (3 & 10cm).   |
| 1560                      | Outer Gabbard RACON.            | 51° 57.8' N<br>2° 04.3' E | <b>O(— — —)</b>  |               | 10           |   | (3 & 10cm).   |
| SIZEWELL:                 |                                 |                           |  |               |              |   |   |
| 1568<br>A 2265            | -S. Pipeline, head.             | 52° 12.5' N<br>1° 37.5' E | <b>Fl.R.</b><br>period 10s<br>fl. 1s, ec. 9s                               | 41<br>12      | 3            | Column, metal platform; 16.             |   |
| 1572<br>A 2265.2          | -N. Pipeline, head.             | 52° 12.7' N<br>1° 37.8' E | <b>Fl.(2)R.</b><br>period 7.5s<br>fl. 0.3s, ec. 0.7s<br>fl. 0.3s, ec. 6.2s | 41<br>12      | 3            | Column, metal platform; 16.             |   |
| 1573<br>A 2265.3          | -Cooling water intake.          | 52° 12.9' N<br>1° 38.0' E | <b>Fl.R.</b><br>period 5s<br>fl. 0.3s, ec. 4.7s                            | 16<br>5       | 3            | Pile; 16.                               |   |
| 1573.1<br>A 2265.35       | --Outfall.                      | 52° 12.9' N<br>1° 37.6' E | <b>Fl.R.</b><br>period 5s<br>fl. 0.3s, ec. 4.7s                            | 16<br>5       | 3            | Pile; 16.                               |   |
| SOUTHWOLD:                |                                 |                           |  |               |              |   |   |
| 1576<br>A 2273            | -Harbor, N. pier, head.         | 52° 18.8' N<br>1° 40.5' E | <b>Fl.G.</b><br>period 1.5s  | 13<br>4       | 4            | Metal column; 10.                       | 3 F.R. (vert.) shown when<br>harbor is closed.                                    |
| 1580<br>A 2273.3          | --Knuckle.                      | 52° 18.8' N<br>1° 40.5' E | <b>2 F.G.</b> (vert.)  |               | 3            |   | 2 meters apart.   |
| 1584<br>A 2274            | --S. pier, head.                | 52° 18.7' N<br>1° 40.5' E | <b>Q.R.</b>  | 13<br>4       | 3            |   |   |
| 1588<br>A 2272            | -Southwold.                     | 52° 19.6' N<br>1° 40.9' E | <b>Fl.W.</b><br>period 10s<br>fl. 0.2s, ec. 9.8s                           | 122<br>37     | 24           | White round tower; 102.                 | Visible 204°-032°30'.<br>Shown 24 hours.<br><b>AIS</b> (MMSI No 992351019).       |

| (1)<br>No.                | (2)<br>Name and Location         | (3)<br>Position           | (4)<br>Characteristic  | (5)<br>Height | (6)<br>Range | (7)<br>Structure                              | (8)<br>Remarks  |
|---------------------------|----------------------------------|---------------------------|--|---------------|--------------|---|---|
| <b>ENGLAND-EAST COAST</b> |                                  |                           |  |               |              |   |   |
| LOWESTOFT:                |                                  |                           |  |               |              |   |   |
| 1600<br>A 2286            | -Outer harbor, N. pier, head.    | 52° 28.3' N<br>1° 45.4' E | <b>Oc.G.</b><br>period 5s<br>lt. 4s, ec. 1s  | 39<br>12      | 8            | White tower, small pavilion; 30.<br>Floodlit. |   |
| 1604<br>A 2284            | --S. pier, head.                 | 52° 28.3' N<br>1° 45.4' E | <b>Oc.R.</b><br>period 5s<br>lt. 4s, ec. 1s  | 40<br>12      | 6            | White tower, small pavilion; 30.<br>Floodlit. | Traffic signals.<br><b>Horn:</b> 4 bl. ev. 60s.<br>Pilot station.   |
| 1608<br>A 2290            | -Inner harbor, N. pier, head.    | 52° 28.3' N<br>1° 45.3' E | <b>2 F.Y.</b> (vert.)  | 20<br>6       | 1            | Metal column; 13.                             |   |
| 1612<br>A 2288            | --S. pier, head.                 | 52° 28.3' N<br>1° 45.3' E | <b>2 F.R.</b> (vert.)  | 26<br>8       | 1            | Metal column; 13.                             | Traffic signals only visible from<br>inside Yacht Basin.<br>3 F.R. (vert.) indicate vessels<br>may not proceed.<br>3 F.G.W.G. (vert.) indicate<br>vessels may proceed with<br>instructions. |
| 1614<br>A 2290.8          | -Lake Lothing.                   | 52° 28.4' N<br>1° 43.3' E | <b>2 F.R.</b> (vert.)  |               |              |   |   |
| 1616<br>A 2292            | -Sladdens Pier, new jetty, head. | 52° 28.3' N<br>1° 45.3' E | <b>2 F.G.</b> (vert.)  |               |              |   |   |
| 1620<br>A 2280            | <b>-Lowestoft.</b>               | 52° 29.2' N<br>1° 45.3' E | <b>Fl.W.</b><br>period 15s<br>fl. 0.2s, ec. 14.8s  | 121<br>37     | 23           | White tower; 52.                              | Partially obscured 347°-019°.<br>Shown 24 hours.  |
| GREAT YARMOUTH:           |                                  |                           |  |               |              |   |   |
| -Gorleston:               |                                  |                           |  |               |              |   |   |
| 1624<br>A 2304            | --S. pier, head.                 | 52° 34.3' N<br>1° 44.3' E | <b>Fl.R.</b><br>period 3s<br>fl. 1s, ec. 2s  | 36<br>11      | 11           | Building.                                     | Visible 235°-340°.  |
| 1628<br>A 2308            | --N. pier, near head.            | 52° 34.4' N<br>1° 44.4' E | <b>Q.G.</b>  | 26<br>8       | 6            | Green metal column, ladder; 23.               | Visible 258°-356°.  |
| 1640<br>A 2320            | -Wellington Pier, head.          | 52° 35.9' N<br>1° 44.3' E | <b>2 F.R.</b> (vert.)  | 26<br>8       | 3            | Post, shelter; 13.                            |   |
| 1648<br>A 2324            | -Britannia Pier, head.           | 52° 36.5' N<br>1° 44.4' E | <b>2 F.R.</b> (vert.)  | 36<br>11      | 4            | White metal column; 10.                       |   |
| 1650<br>A 2325            | -North Scroby.                   | 52° 40.1' N<br>1° 47.1' E | <b>Fl.(5)Y.</b><br>period 20s  | 33<br>10      | 5            | Platform.                                     | On N. and S. side.  |
|                           |                                  |                           | <b>Fl.R.</b><br>period 5s  | 164<br>50     | 3            | Mast; 164.                                    |   |
| 1652<br>A 2318.2          | -Marks outfall beacon.           | 52° 35.1' N<br>1° 44.4' E | <b>Fl.R.</b><br>period 6s  | 16<br>5       | 2            | Red beacon.                                   |   |
| 1656                      | <i>Cross Sand Buoy.</i>          | 52° 37.0' N<br>1° 59.3' E | <b>L.Fl.W.</b><br>period 10s   |               | 5            | SAFE WATER<br>RW, pillar, topmark.            |   |
|                           | RACON                            |                           | <b>T(-)</b>  |               | 10           |   | (3 & 10cm).   |
| 1664                      | <i>Smiths Knoll Buoy.</i>        | 52° 43.5' N<br>2° 18.0' E | <b>Q.(6)+L.Fl.W.</b><br>period 15s   |               |              | S. CARDINAL<br>YB, pillar, topmark.           |   |
|                           | RACON                            |                           | <b>T(-)</b>  |               | 10           |   | (3 & 10cm).   |
| 1668<br>A 2336            | Happisburgh.                     | 52° 49.2' N<br>1° 32.2' E | <b>Fl.(3)W.</b><br>period 30s<br>fl. 1s, ec. 1.5s<br>fl. 1s, ec. 1.5s<br>fl. 1s, ec. 24s | 135<br>41     | 14           | White tower, three red bands; 85.             |   |

| (1)<br>No.                | (2)<br>Name and Location                              | (3)<br>Position           | (4)<br>Characteristic                           | (5)<br>Height    | (6)<br>Range | (7)<br>Structure                              | (8)<br>Remarks   |
|---------------------------|---|---------------------------|---|------------------|--------------|---|--|
| <b>ENGLAND-EAST COAST</b> |   |                           |   |                  |              |   |  |
| 1670                      | North Haisbro Buoy.                                   | 53° 00.2' N<br>1° 32.4' E | <b>Q.W.</b>                                     |                  |              | N. CARDINAL<br>BY, pillar, topmark.           | <b>Bell.</b>   |
|                           | RACON   |                           | <b>T(—)</b>                                     |                  | 10           |   | (3 & 10cm).  |
| 1676<br>A 2342            | <b>Cromer.</b>  | 52° 55.5' N<br>1° 19.0' E | <b>Fl.W.</b><br>period 5s<br>fl. 0.1s, ec. 4.9s | 276<br><b>84</b> | <b>21</b>    | White octagonal tower; 59.                    | Visible 102°-307°.<br>Shown 24 hours.<br><b>AIS</b> (MMSI No 992351015).   |
|                           | RACON   |                           | <b>O(— — —)</b>                                 |                  | <b>25</b>    |   | (3 & 10cm).  |
| 1680<br>A 2344            | -Lifeboat house.                                      | 52° 56.0' N<br>1° 18.2' E | <b>2 F.R.</b> (vert.)                           | 26<br><b>8</b>   | 5            | Gray and white wooden building;<br>39.        |  |
| 1684                      | Dudgeon RACON.  | 53° 16.6' N<br>1° 17.0' E | <b>O(— — —)</b>                                 |                  | 10           |   | (3 & 10cm).  |
| 1688<br>A 2346            | Sheringham.   | 52° 56.7' N<br>1° 12.8' E | <b>F.R.</b>                                     | 39<br><b>12</b>  | 3            | Red post; 7.                                  | Fishing, shown until 2030.   |
| 1692                      | North Well Buoy.                                      | 53° 03.0' N<br>0° 28.0' E | <b>L.Fl.W.</b><br>period 10s                    |                  |              | SAFE WATER<br>RW, pillar, topmark.            | <b>Whistle.</b>  |
|                           | RACON   |                           | <b>T(—)</b>                                     |                  | 10           |   | (3 & 10cm).  |
| 1720<br>A 2379            | Kings Lynn Approach, Trial<br>Bank Beacon.            | 52° 50.5' N<br>0° 14.7' E | <b>Fl.(2)W.</b><br>period 5s                    | 43<br><b>13</b>  | 3            | Mast; 10.                                     |  |
| HOLBEACH RANGE:           |   |                           |   |                  |              |   |  |
| 1724<br>A 2392            | -NW. head.  | 52° 53.0' N<br>0° 06.7' E | <b>Fl.R.</b><br>period 5s<br>fl. 0.5s, ec. 4.5s |                  |              | Flagstaff.                                    | F.R. when firing in progress.<br>Occasional.   |
| 1728<br>A 2394            | -SE. head.  | 52° 51.0' N<br>0° 10.7' E | <b>Fl.R.</b><br>period 5s<br>fl. 0.5s, ec. 4.5s |                  |              | Flagstaff.                                    | Occasional.  |
| 1732<br>A 2390            | -Old South Middle, No 4.                              | 52° 55.1' N<br>0° 10.7' E | <b>Fl.Y.</b><br>period 10s                      |                  |              | Beacon, triangular daymark<br>point up.       |  |
| 1736<br>A 2391            | --No 3.   | 52° 54.9' N<br>0° 09.9' E | <b>Fl.Y.</b><br>period 5s                       |                  |              | Beacon, triangular daymark<br>point up.       |  |
| WITHAM RIVER ENTRANCE:    |   |                           |   |                  |              |   |  |
| 1740<br>A 2398            | -Tabs, head.  | 52° 56.0' N<br>0° 05.0' E | <b>Q.W.G.</b>                                   | 13<br><b>4</b>   | 1            | White mast, red square<br>daymark; 33.        | W. 091°-251°, G.-058°.<br>Tide gauge.<br><b>Radar reflector.</b>   |
| 1744<br>A 2397            | -Beacon, N. side of entrance,<br>Dollypeg.            | 52° 56.1' N<br>0° 05.1' E | <b>Q.G.</b>                                     | 13<br><b>4</b>   | 1            | Beacon, black triangular<br>daymark point up. | <b>Radar reflector.</b>  |
| 1748<br>A 2400            | -New Cut Range, front.                                | 52° 55.8' N<br>0° 04.5' E | <b>F.W.</b>                                     | 16<br><b>5</b>   | 5            | Post; 7.                                      |  |
| 1752<br>A 2400.1          | --Rear, 90 meters 240° from<br>front.                 | 52° 55.8' N<br>0° 04.4' E | <b>F.W.</b>                                     | 26<br><b>8</b>   | 5            | Post; 7.                                      | From Scalp Sand to Boston<br>the river is marked by F.G.<br>and F.R. range lights.                                       |
| 1764<br>A 7560.1          | <b>Dowsing Platform B1D.</b>                          | 53° 33.7' N<br>0° 52.7' E | <b>Mo.(U)W.</b><br>period 15s                   |                  | <b>15</b>    | Platform.                                     | Reserve light range 10M.<br><b>Horn:</b> Mo.(U) ev. 30s (bl.<br>0.7s, si. 1s, bl. 0.7s, si. 1s,<br>bl. 2.5s, si. 24.1s). |
|                           |   |                           | <b>4 Mo.(U)R.</b><br>period 15s                 |                  | 2            |   | On each corner of platform.  |
| 1765<br>A 2352            | Race Bank Offshore Wind<br>Farm, meteorological mast. | 53° 18.8' N<br>0° 44.9' E | <b>Mo.(U)W.</b><br>period 15s                   | 39<br><b>12</b>  | 10           | Yellow mast.                                  | <b>Horn:</b> Mo.(U) ev. 30s.<br><b>Radar reflector.</b>  |

| (1)<br>No.                             | (2)<br>Name and Location  | (3)<br>Position           | (4)<br>Characteristic                           | (5)<br>Height | (6)<br>Range | (7)<br>Structure                                       | (8)<br>Remarks  |
|--|---|---------------------------|---|---------------|--------------|--|---|
| <b>ENGLAND-EAST COAST</b>              |   |                           |   |               |              |  |   |
| 1766<br>A 2421                         | Ingoldmells Point.  | 53° 12.8' N<br>0° 25.9' E | <b>Fl.Y.</b><br>period 5s                       |               | 5            | Wind turbine; 253.                                     | <b>Horn:</b> 1 bl. ev. 10s.<br><b>Radar reflector.</b>  |
|  | AVIATION LIGHT.   |                           | <b>F.R.</b>                                     |               |              |  | Obstruction.  |
| 1767<br>A 2351.5                       | Docking Shoal Offshore Wind Farm, meteorological mast.                            | 53° 09.5' N<br>0° 38.9' E | <b>Mo.(U)W.</b><br>period 15s                   | 39<br>12      | 10           | Yellow mast.   | <b>Horn:</b> Mo.(U) ev. 30s.<br><b>Radar reflector.</b>   |
| 1768<br>A 2578                         | <b>Inner Well Bank Rough,</b><br>Huntsea Offshore Wind Farm, meteorological mast. | 53° 53.2' N<br>1° 59.5' E | <b>Mo.(U)W.</b><br>period 15s                   | 72<br>22      | 15           | Mast; 348.   | <b>Horn:</b> Mo.(U) ev. 30s.  |
|  |   |                           | <b>F.R.</b>                                     | 328<br>100    |              |  |   |
| 1769<br>A 7562.5                       | <b>Anglia Field Platform A 48/19-B.</b>   | 53° 22.0' N<br>1° 39.2' E | <b>Mo.(U)W.</b><br>period 15s                   |               | 15           | Platform.  | Reserve light range 10M.<br><br><b>Horn:</b> Mo.(U) ev 30s (bl. 0.7s, si. 1s, bl. 0.7s, si. 1s, bl. 2.5s, si. 24.1s). |
|  |   |                           | <b>4 Mo.(U)R.</b><br>period 15s                 |               | 2            |  | On each corner of platform.   |
|  | RACON   |                           | <b>Q(— — —)</b>                                 |               | 15           |  | (3 & 10cm).   |
| 1771<br>A 7576.97                      | <b>Markham Field Platform J6-A.</b>   | 53° 49.0' N<br>2° 57.0' E | <b>Mo.(U)W.</b><br>period 15s                   |               | 15           | Platform.  | <b>Horn:</b> Mo.(U) ev. 30s   |
|  |   |                           | <b>2 F.R.</b>                                   |               |              |  |   |
|  | RACON   |                           | <b>M(— —)</b>                                   |               |              |  | Azimuth coverage 180°-000°.<br>(3 & 10cm).  |
| 1771.2                                 | <i>Inger Nielson.</i>   | 54° 30.9' N<br>2° 36.3' E | <b>V.Q.(3)</b><br>period 5s                     |               |              | E. CARDINAL<br>BYB, pillar, topmark.                   |   |
|  | RACON   |                           | <b>D(— • •)</b><br>period 30s                   |               | 10           |  |   |
| <b>ENGLAND-RIVER HUMBER APPROACHES</b> |   |                           |   |               |              |  |   |
| 1771.5                                 | <i>Outer Sand Buoy.</i>   | 53° 36.4' N<br>0° 29.6' E | <b>Q.(3)W.</b><br>period 10s                    |               |              | E. CARDINAL<br>BYB, buoy, topmark.                     |   |
|  | RACON   |                           | <b>O(— — —)</b><br>period 30s                   |               | 10           |  | (3 and 10cm).   |
| 1771.7                                 | Humber RACON.   | 53° 39.1' N<br>0° 20.0' E | <b>T(—)</b>                                     |               | 7            |  | (3 & 10cm).   |
| 1772                                   | Spurn RACON.  | 53° 33.5' N<br>0° 14.3' E | <b>M(— —)</b>                                   |               | 5            |  | (3 & 10cm).   |
| 1780<br>A 2426                         | -Spurn Point beacon.  | 53° 34.4' N<br>0° 06.5' E | <b>Fl.G.</b><br>period 3s<br>fl. 0.5s, ec. 2.5s | 36<br>11      | 5            | Metal tripod, green triangular daymark point up.       |   |
| 1784<br>A 2427.2                       | -Pilot jetty.   | 53° 34.7' N<br>0° 06.5' E | <b>2 F.G.</b> (vert.)                           |               |              |  | At each end.  |
| 1788<br>A 2425                         | <i>Tetney Buoy SBM.</i>   | 53° 32.3' N<br>0° 06.8' E | <b>2 V.Q.Y.</b> (vert.)                         |               |              | Yellow monobuoy.                                       | Q.Y. on floating hose extending up to 290 meters from buoy.<br><b>Horn:</b> Mo.(A) ev. 60s.                           |
| 1796                                   | <i>HAWKE LIGHTFLOAT.</i>  | 53° 34.5' N<br>0° 05.6' E | <b>V.Q.(3)W.</b><br>period 5s                   | 16<br>5       | 5            | E. CARDINAL<br>BYB, hull with superstructure, topmark. |   |
| 1806                                   | <i>CLEE NESS NO 4A LIGHTFLOAT.</i>  | 53° 35.0' N<br>0° 01.8' E | <b>Fl.(2)R.</b><br>period 10s                   |               |              | Red hull.  |   |
| 1816                                   | <i>MIDDLE NO 7 LIGHTFLOAT.</i>  | 53° 35.8' N<br>0° 01.4' W | <b>V.Q.(6)+L.Fl.W.</b><br>period 10s            | 16<br>5       | 5            | S. CARDINAL<br>YB, topmark.                            | <b>Horn:</b> 1 bl. ev. 20s.   |



| (1)<br>No.                             | (2)<br>Name and Location         | (3)<br>Position           | (4)<br>Characteristic                                     | (5)<br>Height | (6)<br>Range | (7)<br>Structure                       | (8)<br>Remarks  |
|--|----------------------------------|---------------------------|---|---------------|--------------|--|---|
| <b>ENGLAND-RIVER HUMBER APPROACHES</b> |                                  |                           |   |               |              |  |   |
| 1820<br>A 2450                         | LOWER BURCOM NO 6<br>LIGHTFLOAT. | 53° 35.4' N<br>0° 01.6' W | Fl.R.<br>period 4s  | 16<br>5       | 4            | PORT (A)<br>R, name in white on sides. |   |
| GRIMSBY:                               |                                  |                           |   |               |              |  |   |
| 1824<br>A 2450                         | -Sewer outfall.                  | 53° 34.9' N<br>0° 03.3' W | 2 F.R. (vert.)  | 16<br>5       | 5            | PORT (A)<br>R, pile, dolphin.          | 2 meters apart.   |
| 1828<br>A 2452                         | -Fish dock, E. pier.             | 53° 35.0' N<br>0° 03.8' W | Iso.R.<br>period 4s                                       | 33<br>10      | 1            | Brown metal column; 23.                | Sounded when vessels are<br>entering docks.<br><b>Horn:</b> 1 bl. ev. 20s (bl. 5s, si.<br>15s). |
| 1832<br>A 2454                         | --Middle pier, head.             | 53° 35.0' N<br>0° 04.0' W | Iso.G.<br>period 4s                                       | 33<br>10      | 8            | Brown wooden mast; 23.                 | Traffic Signals 60 meters S.  |
| 1836<br>A 2456                         | --W. pier.                       | 53° 35.0' N<br>0° 04.0' W | Fl.Y.<br>period 2.5s                                      | 33<br>10      | 8            | Brown wooden mast; 23.                 |   |
| 1840<br>A 2460                         | -Royal Dock, E. pier, head.      | 53° 35.1' N<br>0° 04.0' W | Fl.(2)R.<br>period 6s<br>fl. 1s, ec. 1s<br>fl. 1s, ec. 3s | 33<br>10      | 8            | Dolphin; 23.                           |   |
| 1844<br>A 2472                         | --W. pier, head.                 | 53° 35.1' N<br>0° 04.0' W | Oc.G.<br>period 2s<br>lt. 1.5s, ec. 0.5s                  | 23<br>7       | 2            | Brown metal column; 23.                | <b>Bell:</b> 1 str. ev. 10s.  |
| 1848<br>A 2474                         | --NW. elbow.                     | 53° 35.1' N<br>0° 04.2' W | Oc.G.<br>period 2s<br>lt. 1.5s, ec. 0.5s                  | 39<br>12      | 2            | Brown metal column; 23.                | F.R. lights on chimney 1.2<br>miles W.  |
| 1856<br>A 2479                         | Outfall pipe.                    | 53° 36.0' N<br>0° 07.5' W | 2 F.R. (vert.)  | 13<br>4       |              | Red dolphin, square daymark.           |   |
| 1864<br>A 2481                         | Stallingborough, jetty.          | 53° 37.1' N<br>0° 09.4' W | 2 F.R. (vert.)  | 23<br>7       |              | Metal column; 16.                      | 2 meters apart.   |

|                             |                                     |                           |                       |         |   |                                |  |
|-----------------------------|-------------------------------------|---------------------------|-----------------------|---------|---|--------------------------------|--|
| <b>ENGLAND-RIVER HUMBER</b> |                                     |                           |                       |         |   |                                |  |
| 1868<br>A 2483              | Outfall pipe.                       | 53° 37.4' N<br>0° 09.9' W | 2 F.R. (vert.)        | 13<br>4 |   | Red beacon, square daymark.    | 2 meters apart.  |
| 1870                        | NO 10A LIGHTFLOAT.                  | 53° 37.5' N<br>0° 08.6' W | Fl.(2)R.<br>period 6s | 16<br>5 | 4 | Red hull.                      |  |
| IMMINGHAM:                  |                                     |                           |                       |         |   |                                |  |
| 1872<br>A 2484              | -Humber oil terminal, SE.,<br>head. | 53° 37.7' N<br>0° 09.4' W | 2 Q.R. (vert.)        | 26<br>8 | 5 | Dolphin.                       | Synchronized traffic signals<br>on tower B 400 meters<br>WNW.<br><b>Horn:</b> Mo.(N) ev. 30s (bl. 6s,<br>si. 2s, bl. 2s, si. 20s). |
| 1876<br>A 2484.2            | --Berth No 2, SE., head.            | 53° 37.8' N<br>0° 09.8' W | 2 F.R. (vert.)        | 16<br>5 | 2 |                                |  |
| 1880<br>A 2484.4            | --Berth No 1, NW., head.            | 53° 37.9' N<br>0° 10.2' W | 2 F.R. (vert.)        | 16<br>5 | 2 |                                |  |
| 1882<br>A 2484.6            | --A1, NW., head.                    | 53° 37.9' N<br>0° 10.4' W | 2 Q.R. (vert.)        | 26<br>8 | 5 | Dolphin.                       | 2 meters apart.<br><b>Horn:</b> Mo.(A) ev. 30s (bl. 1s,<br>si. 2s, bl. 6s, si. 21s).   |
| 1888<br>A 2487              | -E. jetty, head.                    | 53° 37.8' N<br>0° 10.7' W | 2 F.R. (vert.)        | 30<br>9 | 3 | Red metal framework tower; 20. | 2 meters apart.  |
| 1892<br>A 2489              | -W. jetty, elbow.                   | 53° 38.0' N<br>0° 11.3' W | 2 F.R. (vert.)        | 26<br>8 | 3 | Column; 30.                    | 2 meters apart.  |

| (1)<br>No.                  | (2)<br>Name and Location                      | (3)<br>Position           | (4)<br>Characteristic                            | (5)<br>Height | (6)<br>Range | (7)<br>Structure                       | (8)<br>Remarks  |
|-----------------------------|---|---------------------------|--|---------------|--------------|--|---|
| <b>ENGLAND-RIVER HUMBER</b> |   |                           |  |               |              |  |   |
| 1901<br>A 2491.5            | --291°.                                       | 53° 38.4' N<br>0° 12.0' W | <b>Dir.W.R.G.</b>                                | 56<br>17      | 3            | Building.                              | F.G. 287°30'-288°30',<br>Al.W.G.-290°30', F.W.-<br>291°30', Al.W.R.-293°30',<br>F.R.-294°30'.<br>Shown 24 hours.  |
| 1904<br>A 2491.6            | --NW., head.                                  | 53° 38.4' N<br>0° 12.0' W | <b>2 F.R.</b> (vert.)                            |               |              |  | 2 meters apart.   |
| 1908                        | CLAY HUTS LIGHTFLOAT.                         | 53° 38.5' N<br>0° 11.3' W | <b>Iso.W.</b><br>period 2s                       | 16<br>5       | 9            | SAFE WATER<br>RW, topmark.             |   |
| SOUTH KILLINGHOLME:         |   |                           |  |               |              |  |   |
| 1909<br>A 2496              | -LPG jetty, SE. head.                         | 53° 38.7' N<br>0° 12.3' W | <b>2 Oc.R.</b> (vert.)<br>period 5s              | 16<br>5       |              |  | 2 meters apart.   |
| 1909.5<br>A 2496.4          | --NE. head.                                   | 53° 38.8' N<br>0° 12.4' W | <b>2 Oc.R.</b> (vert.)<br>period 5s              | 16<br>5       |              |  | 2 meters apart.   |
| 1910<br>A 2496.6            | --S. dolphin.                                 | 53° 38.7' N<br>0° 12.3' W | <b>2 F.R.</b> (vert.)                            | 13<br>4       |              | Dolphin.                               | 2 meters apart.<br><b>Horn:</b> Mo.(G) ev. 60s.   |
| 1910.5<br>A 2496.8          | --N. dolphin.                                 | 53° 38.8' N<br>0° 12.5' W | <b>2 F.R.</b> (vert.)                            | 13<br>4       |              | Dolphin.                               | 2 meters apart.   |
| KILLINGHOLME:               |   |                           |  |               |              |  |   |
| 1912<br>A 2440              | -Range, front.                                | 53° 38.8' N<br>0° 13.0' W | <b>Iso.R.</b><br>period 2s                       | 33<br>10      | 14           | White tower; 46.                       | Shown 24 hours.<br>2 F.R. (vert.) marks outfall 380<br>meters E.  |
| 1916<br>A 2440.1            | --Rear, 189 meters 292° from<br>front.        | 53° 38.8' N<br>0° 13.1' W | <b>Dir.W.R.G.</b>                                | 72<br>22      | 3            | Red tower; 79.                         | F.G. 289°30'-290°30',<br>Al.W.G.-291°30', F.W.-<br>292°30', Al.W.R.-<br>293°30', F.R.-294°30'.<br>Shown 24 hours. |
| 1920<br>A 2498              | -Oil jetty, head.                             | 53° 38.9' N<br>0° 12.6' W | <b>2 Q.R.</b> (vert.)                            | 23<br>7       |              |  | 2 meters apart.   |
| 1924<br>A 2499.6            | North Killingholme oil jetty, off<br>S. head. | 53° 39.9' N<br>0° 13.8' W | <b>2 F.R.</b> (vert.)                            |               |              |  |   |
| 1928<br>A 2506              | Thorngumbald Clough Range,<br>front.          | 53° 42.5' N<br>0° 13.6' W | <b>Oc.W.</b><br>period 2s<br>lt. 1.5s, ec. 0.5s  | 26<br>8       | 9            | White tower; 33.                       | Visible 130°-140°.  |
| 1932<br>A 2508              | -Rear, 113 meters 135° from<br>front.         | 53° 42.5' N<br>0° 13.5' W | <b>Oc.W.</b><br>period 2s                        | 43<br>13      | 9            | Red metal framework tower; 49.         | Visible 130°-140°.<br>Synchronized with front.  |
| 1936                        | NORTH HOLME LIGHTFLOAT<br>NO 17.              | 53° 40.9' N<br>0° 13.1' W | <b>V.Q.(9)W.</b><br>period 10s                   |               |              | W. CARDINAL<br>YBY, topmark.           |   |
| 1940                        | SAND END LIGHTFLOAT NO<br>16.                 | 53° 42.5' N<br>0° 14.4' W | <b>Fl.R.</b><br>period 4s                        | 16<br>5       | 3            | PORT (A)<br>R, name in white on sides. |   |
| SALT END:                   |   |                           |  |               |              |  |   |
| 1946<br>A 2515              | -Jetty No 1 Range, front.                     | 53° 43.6' N<br>0° 14.9' W | <b>Oc.Bu.</b><br>period 6s<br>lt. 4.5s, ec. 1.5s | 30<br>9       |              | Beacon, yellow "X" topmark.            | Marks upstream limit of<br>dredged approach.<br>Occasional.   |
| 1946.1<br>A 2515.1          | --Rear 18 meters 104° from<br>front.          | 53° 43.6' N<br>0° 14.8' W | <b>Oc.Bu.</b><br>period 6s<br>lt. 4.5s, ec. 1.5s | 39<br>12      |              | Beacon, yellow "X" topmark.            | Synchronized with front.  |
| 1952<br>A 2518              | --Jetty No 3, branch, SE. head.               | 53° 43.5' N<br>0° 14.6' W | <b>2 F.G.</b> (vert.)                            | 23<br>7       | 2            | Metal mast; 26.                        | 2 meters apart.   |
| 1953<br>A 2518.5            | ---Dolphin.                                   | 53° 43.5' N<br>0° 14.7' W | <b>2 F.G.</b> (vert.)                            | 19<br>6       |              |  | 2 meters apart.   |

| (1)<br>No.                  | (2)<br>Name and Location             | (3)<br>Position           | (4)<br>Characteristic   | (5)<br>Height | (6)<br>Range   | (7)<br>Structure                                   | (8)<br>Remarks  |
|-----------------------------|--------------------------------------|---------------------------|---|---------------|----------------|--|---|
| <b>ENGLAND-RIVER HUMBER</b> |                                      |                           |   |               |                |  |   |
| 1954<br>A 2520              | ---Range, front.                     | 53° 43.5' N<br>0° 14.8' W | <b>Oc.Bu.</b><br>period 4s<br>lt. 3s, ec. 1s  | 30<br>9       |                | Beacon, yellow "X" topmark.                        | Marks downstream limit of dredged approach. Occasional.   |
| 1954.1<br>A 2520.1          | ---Rear 23 meters 000° from front.   | 53° 43.5' N<br>0° 14.6' W | <b>Oc.Bu.</b><br>period 4s<br>lt. 3s, ec. 1s  | 49<br>15      |                | Beacon, yellow "X" topmark.                        | Synchronized with front. Occasional.  |
| 1957<br>A 2530.2            | King George Dock Entrance, E. side.  | 53° 44.4' N<br>0° 16.4' W | <b>Oc.Bu.</b><br>period 5s  |               |                | Yellow beacon, yellow triangular daymark point up. | In line with Docking Signals 130 meters N. Marks E. side of dredged channel.                                |
| <b>ENGLAND-EAST COAST</b>   |                                      |                           |   |               |                |  |   |
| 1960<br>A 2580              | Bridlington, N. pier, head.          | 54° 04.8' N<br>0° 11.2' W | <b>Fl.W.</b><br>period 2s<br><br><b>F.R.</b><br><br><b>F.G.</b>   | 39<br>12      | 9              | Column; 30.  | <b>Horn:</b> 1 bl. ev. 60s (bl. 5s, si. 55s).<br><br>Tide signal. Occasional.<br><br>Occasional.            |
| 1964<br>A 2582              | <b>Flamborough Head.</b>             | 54° 07.0' N<br>0° 05.0' W | <b>Fl.(4)W.</b><br>period 15s<br>fl. 0.1s, ec. 2.2s<br>fl. 0.1s, ec. 2.2s<br>fl. 0.1s, ec. 2.2s<br>fl. 0.1s, ec. 8s | 213<br>65     | 24             | White round tower; 89.                             | <b>DGPS Station.</b>  |
| 1968<br>A 2586              | Filey.                               | 54° 12.6' N<br>0° 17.0' W | <b>F.R.</b>   | 102<br>31     | 1              | Green metal column; 13.                            | Visible 272°-308°. Occasional (fishing). Storm signals.   |
| SCARBOROUGH:                |                                      |                           |   |               |                |  |   |
| 1972<br>A 2590              | -W. pier, head.                      | 54° 16.9' N<br>0° 23.3' W | <b>2 F.R.</b> (vert.)   | 16<br>5       | 4              | Watch hut; 10.                                     |   |
| 1976<br>A 2592              | -Lighthouse Pier.                    | 54° 16.9' N<br>0° 23.4' W | <b>Iso.W.</b><br>period 5s  | 56<br>17      | 9              | White round tower; 49.                             | Visible 219°-039°. Shown during more than 12ft on bar.<br><b>Diaphone:</b> 1 bl. ev. 60s (bl. 2s, si. 58s). |
| 1980<br>A 2588              | -E. pier, head.                      | 54° 16.9' N<br>0° 23.2' W | <b>Q.G.</b>   | 26<br>8       | 3              | Mast; 13.  |   |
| WHITBY:                     |                                      |                           |   |               |                |  |   |
| 1984<br>A 2599              | -W. pier, head.                      | 54° 29.6' N<br>0° 36.7' W | <b>Q.G.</b>   | 39<br>12      | 5              | Green wooden tower; 23.                            | Visible 095°-000°. <b>Horn:</b> 1 bl. ev. 30s (bl. 3s, si. 27s). Sounded when vessels are expected.         |
| 1988<br>A 2598              | -E. pier, head.                      | 54° 29.6' N<br>0° 36.6' W | <b>Q.R.</b>   | 39<br>12      | 5              | Red wooden tower; 23.                              | Visible 000°-270°.  |
| 1992<br>A 2596              | <b>-Whitby High.</b>                 | 54° 28.7' N<br>0° 34.1' W | <b>Fl.W.R.</b><br>period 5s<br>fl. 0.8s, ec. 4.2s   | 240<br>73     | W. 18<br>R. 16 | White octagonal tower, dwellings; 43.              | R. 128°-143°, W.-319°.  |
| REDCAR:                     |                                      |                           |   |               |                |  |   |
| 2000<br>A 2616              | -Luff Way on Esplanade Range, front. | 54° 37.1' N<br>1° 03.7' W | <b>F.R.</b>   | 26<br>8       | 7              | Metal column; 16.                                  | Visible 182°-212°.  |
| 2004<br>A 2616.1            | --Rear, 115 meters 197° from front.  | 54° 37.0' N<br>1° 03.7' W | <b>F.R.</b>   | 39<br>12      | 7              | Metal column; 26.                                  | Visible 182°-212°.  |

| (1)<br>No.                | (2)<br>Name and Location               | (3)<br>Position           | (4)<br>Characteristic   | (5)<br>Height | (6)<br>Range   | (7)<br>Structure                             | (8)<br>Remarks   |
|---------------------------|--|---------------------------|---|---------------|----------------|--|--|
| <b>ENGLAND-EAST COAST</b> |  |                           |   |               |                |  |  |
| 2008<br>A 2620            | -Promenade Range, front.               | 54° 37.1' N<br>1° 03.9' W | <b>Oc.R.</b><br>period 2.5s<br>lt. 1.5s, ec. 1s                           | 30<br>9       | 7              | Metal column; 16.                            | Visible 232°-262°.   |
| 2012<br>A 2620.1          | --Rear, 43 meters 247° from front.     | 54° 37.1' N<br>1° 03.9' W | <b>Oc.R.</b><br>period 2.5s<br>lt. 1.5s, ec. 1s                           | 36<br>11      | 7              | Brick building; 26.                          | Visible 232°-262°.   |
| RIVER TEES:               |  |                           |   |               |                |  |  |
| 2016                      | -Fairway RACON.                        | 54° 40.9' N<br>1° 06.4' W | <b>B(— • • • •)</b><br>period 72s   |               |                |  | (3cm).   |
| 2020<br>A 2626            | <b>-South Gare.</b>                    | 54° 38.8' N<br>1° 08.2' W | <b>Fl.W.R.</b><br>period 12s<br>fl. 1.5s, ec. 10.5s                       | 53<br>16      | W. 20<br>R. 17 | White round tower; 43.                       | W. 020°-240°, R.-357°.   |
| 2024<br>A 2627            | -Range, front.                         | 54° 37.2' N<br>1° 10.2' W | <b>F.R.</b>   | 59<br>18      | 13             | Red metal framework tower, white bands.      |  |
| 2028<br>A 2627.1          | --Rear, 560 meters 210°04' from front. | 54° 37.0' N<br>1° 10.4' W | <b>F.R.</b>   | 66<br>20      | 16             | Metal framework tower.                       |  |
| 2029<br>A 2634            | -No 13.                                | 54° 37.5' N<br>1° 09.7' W | <b>Q.(2)G.</b><br>period 5s   | 23<br>7       |                | Black and white checkered beacon.            |  |
| 2030<br>A 2636            | -Jetty, N. head.                       | 54° 36.7' N<br>1° 09.2' W | <b>2 F.R.</b> (vert.)   |               |                |  | 2 meters apart.  |
| 2031<br>A 2636.2          | --S., head.                            | 54° 36.6' N<br>1° 09.2' W | <b>2 F.R.</b> (vert.)   |               |                |  | 2 meters apart.  |
| 2032<br>A 2644            | -Tees Dock, outer corner.              | 54° 36.3' N<br>1° 09.5' W | <b>2 F.R.</b> (vert.)   | 16<br>5       |                |  | 2 meters apart.  |
| 2044<br>A 2657            | -Ichaboe, jetty, head.                 | 54° 35.0' N<br>1° 12.3' W | <b>2 F.G.</b> (vert.)   | 20<br>6       |                |  | 2 meters apart.  |
| HARTLEPOOL:               |  |                           |   |               |                |  |  |
| 2052<br>A 2664            | -Old, pier head.                       | 54° 41.6' N<br>1° 11.1' W | <b>Fl.W.G.</b><br>period 3s   | 43<br>13      | 7              | White wooden framework tower, red bands; 39. | W. 317°-325°, G.-317°.   |
| 2055<br>A 2664.85         | -Town Wall.                            | 54° 41.8' N<br>1° 11.4' W | <b>2 F.G.</b> (vert.)   |               |                |  | Traffic signals shown 40 meters SSE.                           |
| 2056<br>A 2663            | <b>-The Heugh.</b>                     | 54° 41.8' N<br>1° 10.6' W | <b>Fl.(2)W.</b><br>period 10s<br>fl. 0.2s, ec. 1.4s<br>fl. 0.2s, ec. 8.2s | 62<br>19      | 19             | White metal tower; 43.                       |  |
| 2057<br>A 2666            | -324°53'.                              | 54° 42.0' N<br>1° 11.7' W | <b>Dir.W.R.G.</b><br>period 3s  | 138<br>42     |                | Metal tower.                                 | Iso.G. 323°12'-324°24',<br>Iso.W.-325°24', Iso.R.-<br>326°36'. |
| 2058<br>A 2667            | -West Harbor, outer S. pier, head.     | 54° 41.3' N<br>1° 11.7' W | <b>Oc.R.</b><br>period 5s   | 39<br>12      | 2              | Metal mast; 20.                              |  |
| 2059<br>A 2667.2          | --Outer N. pier, head.                 | 54° 41.3' N<br>1° 11.6' W | <b>Oc.G.</b><br>period 5s   | 39<br>12      | 2              | White column; 20.                            |  |
| 2060<br>A 2667.6          | --Inner N. pier, head.                 | 54° 41.4' N<br>1° 11.7' W | <b>F.G.</b>   | 23<br>7       | 2              | Metal mast; 13.                              |  |
| 2061<br>A 2667.8          | --Middle pier, head.                   | 54° 41.3' N<br>1° 11.7' W | <b>F.R.</b>   | 23<br>7       | 2              | Metal mast; 13.                              |  |
| 2062<br>A 2667.4          | --308°.                                | 54° 41.4' N<br>1° 11.9' W | <b>Dir.W.R.G.</b><br>period 2s  | 20<br>6       | 3              | Building.                                    | Fl.G. 305°30'-307°, Fl.W.-<br>309°, Fl.R.-310°30'.             |
| 2064<br>A 2669            | -Pipe jetty, head.                     | 54° 42.8' N<br>1° 12.5' W | <b>2 F.R.</b> (vert.)   |               | 1              | 7.   | <b>Bell:</b> 1 str. ev. 15s.                                   |

| (1)<br>No.                | (2)<br>Name and Location          | (3)<br>Position           | (4)<br>Characteristic   | (5)<br>Height | (6)<br>Range            | (7)<br>Structure                                   | (8)<br>Remarks   |
|---------------------------|-----------------------------------|---------------------------|---|---------------|-------------------------|--|--|
| <b>ENGLAND-EAST COAST</b> |                                   |                           |   |               |                         |  |  |
| <b>SEAHAM:</b>            |                                   |                           |   |               |                         |  |  |
| 2068<br>A 2675            | -S. pier, head.                   | 54° 50.2' N<br>1° 19.3' W | <b>2 F.R.</b> (vert.)   | 33<br>10      | 5                       | Red metal column; 23.                              | 2 meters apart.  |
| 2072<br>A 2674            | -N. breakwater, head.             | 54° 50.2' N<br>1° 19.3' W | <b>Fl.G.</b><br>period 10s<br>fl. 1.2s, ec. 8.8s  | 39<br>12      | 5                       | White metal column, black bands; 33.               | Frequently shows F.G. in bad weather.  |
| 2076<br>A 2676            | -Wave screen, head.               | 54° 50.2' N<br>1° 19.4' W | <b>3 F.R.</b>   | 16<br>5       | 2                       | Red metal column; 13.                              | In shape of triangle.<br>S. dock entrance, N. side F.G.,<br>S. side F.R. on white column (occasional). |
| <b>SUNDERLAND:</b>        |                                   |                           |   |               |                         |  |  |
| 2080<br>A 2682            | -New S. pier, head.               | 54° 55.1' N<br>1° 21.2' W | <b>Fl.W.</b><br>period 10s<br>fl. 0.5s, ec. 9.5s  | 46<br>14      | 10                      | White metal tower; 33.                             |  |
| 2084<br>A 2681            | - <b>Roker Pier</b> , head.       | 54° 55.3' N<br>1° 21.1' W | <b>Fl.W.</b><br>period 5s<br>fl. 0.2s, ec. 4.8s   | 82<br>25      | 18                      | White round tower, three red bands, cupola; 75.    | Visible 211°-357°.<br><b>Siren:</b> 1 bl. ev. 20s (bl. 2s, si. 18s).                                   |
| 2092<br>A 2686            | -Old N. pier, head.               | 54° 55.1' N<br>1° 21.5' W | <b>Q.G.</b>   | 39<br>12      | 8                       | Metal column.                                      | Traffic signals are displayed on the SW. end of Old N. Pier.   |
| 2094<br>A 2684            | -Old S. pier, head.               | 54° 55.0' N<br>1° 21.6' W | <b>Fl.R.</b><br>period 5s<br>fl. 0.5s, ec. 4.5s   | 30<br>9       | 2                       | PORT (A)<br>R, tower, topmark.                     |  |
| 2095<br>A 2690            | -N. dock basin.                   | 54° 55.0' N<br>1° 21.8' W | <b>Fl.G.</b><br>period 5s   |               |                         | Pole.  |  |
| 2096<br>A 2692            | -N. dock, E. pier, head.          | 54° 55.1' N<br>1° 21.8' W | <b>Fl.(2)G.</b><br>period 10s   |               | 2                       | STARBOARD (A)<br>G, beacon, topmark.               |  |
| <b>RIVER TYNE:</b>        |                                   |                           |   |               |                         |  |  |
| 2104<br>A 2700            | - <b>Tynemouth</b> , head.        | 55° 00.9' N<br>1° 24.2' W | <b>Fl.(3)W.</b><br>period 10s<br>fl. 0.2s, ec. 2s<br>fl. 0.2s, ec. 2s<br>fl. 0.2s, ec. 5.4s | 85<br>26      | 26                      | Gray round masonry tower, white lantern; 75.       | <b>Horn:</b> 1 bl. ev. 10s (bl. 3s, si. 7s).   |
| 2108<br>A 2702            | -S. pier, head.                   | 55° 00.7' N<br>1° 24.1' W | <b>Oc.W.R.G.</b><br>period 10s<br>lt. 8s, ec. 2s  | 49<br>15      | W. 13<br>R. 9<br>G. 8   | Gray round stone tower, red and white lantern; 39. | W. 075°-161°, G.-179°, W.-255°, R.-075°.   |
| 2112<br>A 2702.5          | - <b>Herd Groyne</b> , 249°.      | 55° 00.5' N<br>1° 25.4' W | <b>Oc.W.R.G.</b><br>period 10s<br>lt. 8s, ec. 2s  | 43<br>13      | W. 19<br>R. 11<br>G. 11 | Red pile structure, red and white lantern; 49.     | G. 224°-246°30', W.-251°30',<br>R.-277°30'.<br>Oc.W. range 5M by day.                                  |
|                           |                                   |                           | <b>F.R.</b>   |               |                         |  | Unintensified 080°-224°.   |
| 2116<br>A 2708            | --Beacon on No 1 groyne.          | 55° 00.5' N<br>1° 25.8' W | <b>Fl.G.</b><br>period 5s   | 20<br>6       | 9                       | Green metal beacon; 13.                            | <b>Radar reflector.</b>  |
| 2140<br>A 2724            | -Bill Point, Naval Yard.          | 54° 57.8' N<br>1° 32.2' W | <b>Fl.(2)G.</b><br>period 10s   | 13<br>4       | 1                       | Beacon.  |  |
| 2148<br>A 2726            | -St. Anthony's Point, N. bank.    | 54° 57.6' N<br>1° 33.3' W | <b>Fl.G.</b><br>period 5s<br>fl. 0.5s, ec. 4.5s   | 16<br>5       | 3                       | Green structure; 33.                               |  |
| 2156<br>A 2728            | -St. Peters, N. bank.             | 54° 57.8' N<br>1° 33.9' W | <b>Fl.(3)G.</b><br>period 10s   | 20<br>6       | 3                       | Green pile structure, platform.                    |  |
| 2160<br>A 2744            | Cullercoats Range, front.         | 55° 02.0' N<br>1° 25.9' W | <b>F.R.</b>   | 89<br>27      | 3                       | Post; 10.  |  |
| 2164<br>A 2744.1          | -Rear, 38 meters 256° from front. | 55° 02.1' N<br>1° 25.8' W | <b>F.R.</b>   | 115<br>35     | 3                       | Column; 13.  |  |

| (1)<br>No.                | (2)<br>Name and Location             | (3)<br>Position           | (4)<br>Characteristic   | (5)<br>Height | (6)<br>Range   | (7)<br>Structure                              | (8)<br>Remarks  |
|---------------------------|--------------------------------------|---------------------------|---|---------------|----------------|---|---|
| <b>ENGLAND-EAST COAST</b> |                                      |                           |   |               |                |   |   |
| BLYTH:                    |                                      |                           |   |               |                |   |   |
| 2172<br>A 2766            | -Range, front.                       | 55° 07.4' N<br>1° 29.8' W | <b>F.Bu.</b>  | 36<br>11      | 10             | Framework tower, orange diamond daymark.      |   |
| 2176<br>A 2766.1          | --Rear, 180 meters 324° from front.  | 55° 07.5' N<br>1° 29.9' W | <b>F.Bu.</b>  | 56<br>17      | 10             | Framework tower, orange diamond daymark.      |   |
| 2180<br>A 2754            | -E. pier, head.                      | 55° 07.0' N<br>1° 29.2' W | <b>Fl.(4)W.</b><br>period 10s<br>fl. 0.3s, ec. 1.3s<br>fl. 0.3s, ec. 1.3s<br>fl. 0.3s, ec. 1.3s<br>fl. 0.3s, ec. 4.9s | 62<br>19      | 21             | White tower; 46.                              | <b>Horn:</b> 3 bl. ev. 30s (bl. 1.3s, si. 2s, bl. 1.3s, si. 2s, bl. 1.3s, si. 22.1s).             |
|                           |                                      |                           | <b>F.R.</b>   | 44<br>13      | 13             |   | Visible 152°-249°.  |
| 2184<br>A 2760            | -W. pier, head.                      | 55° 07.0' N<br>1° 29.4' W | <b>2 F.R.</b> (vert.)   | 23<br>7       | 8              | White tower; 13.                              |   |
| 2188<br>A 2762            | -Training wall, S. head.             | 55° 07.1' N<br>1° 29.3' W | <b>Fl.R.</b><br>period 6s<br>fl. 1s, ec. 5s   | 20<br>6       | 1              | Red metal framework tower; 7.                 |   |
| 2192<br>A 2763            | -W. side of channel within entrance. | 55° 07.2' N<br>1° 29.4' W | <b>2 F.R.</b> (vert.)   | 17<br>5       |                | Dolphin.                                      | 2 meters apart.   |
| 2196<br>A 2764            | -W. pier, N. head.                   | 55° 07.3' N<br>1° 29.6' W | <b>2 Fl.(2)R.</b> (vert.)<br>period 6s  | 16<br>5       | 5              | White metal structure; 10.                    |   |
| 2200<br>A 2770            | -Blyth Snook Range, front.           | 55° 07.7' N<br>1° 29.8' W | <b>F.Bu.</b>  | 15<br>5       | 5              | White hexagonal tower; 12.                    |   |
| 2204<br>A 2770.1          | --Rear, 87 meters 338° from front.   | 55° 07.8' N<br>1° 29.9' W | <b>F.Bu.</b>  | 36<br>11      | 5              | Mast, white triangular daymark point up; 23.  |   |
| 2208<br>A 2775            | -Alcan Terminal, SE. head.           | 55° 07.8' N<br>1° 30.0' W | <b>2 F.G.</b> (vert.)   | 13<br>4       | 1              |   | 2 meters apart.   |
| 2212<br>A 2775.2          | --NW. head.                          | 55° 07.8' N<br>1° 30.1' W | <b>2 F.G.</b> (vert.)   | 13<br>4       | 1              |   | 2 meters apart.   |
| 2216<br>A 2775.5          | -Ro Ro pontoon, E. head.             | 55° 08.0' N<br>1° 30.7' W | <b>2 F.R.</b> (vert.)   |               |                |   |   |
| 2224<br>A 2776            | -W. coaling staiths, head.           | 55° 08.3' N<br>1° 31.1' W | <b>Fl.R.</b><br>period 3s   |               | 3              |   |   |
| 2226<br>A 2778            | -Blyth Power Station Discharge.      | 55° 08.7' N<br>1° 30.8' W | <b>2 F.R.</b> (vert.)   | 10<br>3       | 2              | Concrete platform, piles; 20.                 | Visible 156°-336°.  |
| 2228<br>A 2780            | <b>Coquet Island.</b>                | 55° 20.0' N<br>1° 32.5' W | <b>Fl.(3)W.R.</b><br>period 20s<br>fl. 0.1s, ec. 3.3s<br>fl. 0.1s, ec. 3.3s<br>fl. 0.1s, ec. 13.1s                    | 82<br>25      | W. 19<br>R. 15 | Gray square tower, white top; 72.             | R. 330°-140°, W.-163°, R.-180°, W.-330°.<br><b>Horn:</b> 1 bl. ev. 30s (bl. 2s, si. 28s).         |
| 2232<br>A 2784            | Warkworth, S. breakwater, head.      | 55° 20.3' N<br>1° 34.2' W | <b>Fl.R.</b><br>period 5s   | 30<br>9       | 5              | White round tower, red bands, white base; 26. |   |
| 2236<br>A 2785            | -N. breakwater, head.                | 55° 20.4' N<br>1° 34.1' W | <b>Fl.G.</b><br>period 6s   | 39<br>12      | 6              | Green post.                                   |   |
| NORTH SUNDERLAND:         |                                      |                           |   |               |                |   |   |
| 2244<br>A 2804            | -NW. pier, head.                     | 55° 35.0' N<br>1° 38.9' W | <b>F.G.</b>   | 36<br>11      | 3              | White tower; 26.                              | Visible 159°-294°. Traffic Signals.<br><b>Siren:</b> 1 bl. ev. 90s (bl. 6s, si. 94s). Occasional. |
| 2248<br>A 2802            | -Breakwater, head.                   | 55° 35.0' N<br>1° 38.8' W | <b>Fl.R.</b><br>period 2.5s<br>fl. 0.2s, ec. 2.3s   | 19<br>6       |                | Metal tripod.                                 |   |

| (1)<br>No.                | (2)<br>Name and Location                    | (3)<br>Position           | (4)<br>Characteristic  | (5)<br>Height | (6)<br>Range            | (7)<br>Structure  | (8)<br>Remarks  |
|---------------------------|---|---------------------------|--|---------------|-------------------------|---|---|
| <b>ENGLAND-EAST COAST</b> |   |                           |  |               |                         |   |   |
| 2252<br>A 2810            | Bamburgh.                                   | 55° 36.9' N<br>1° 43.5' W | <b>Oc.(2)W.R.G.</b><br>period 8s<br>lt. 1s, ec. 1s<br>lt. 5s, ec. 1s | 39<br>12      | W. 14<br>R. 11<br>G. 11 | White building; 30.   | G. 122°-165°, W.-175°, R.-<br>191°, W.-238°, R.-275°,<br>W.-289°, G.-300°.<br>Shown 24 hours. |
| FARNE ISLANDS:            |   |                           |  |               |                         |   |   |
| 2256<br>A 2812            | -Farne, near SW. point.                     | 55° 36.9' N<br>1° 39.4' W | <b>Fl.(2)W.R.</b><br>period 15s<br>fl. 1s, ec. 2s<br>fl. 1s, ec. 11s | 89<br>27      | W. 10<br>R. 7           | White round tower; 43.  | R. 119°-280°, W.-119°.  |
| 2260<br>A 2814            | <b>-Longstone.</b>                          | 55° 38.6' N<br>1° 36.5' W | <b>Fl.W.</b><br>period 20s<br>fl. 0.3s, ec. 19.7s                    | 75<br>23      | <b>24</b>               | Red tower, white band; 85.  | <b>AIS</b> (MMSI No 992351127).<br>Shown 24 hours.  |
| HOLY ISLAND:              |   |                           |  |               |                         |   |   |
| 2262<br>A 2816            | -Holy Island Harbor, Old Law,<br>E. beacon. | 55° 39.5' N<br>1° 47.5' W | <b>Oc.W.R.G.</b><br>period 6s<br>lt. 4s, ec. 2s                      | 29<br>9       | 4                       | Stone obelisk; 69.  | G. 180°30'-258°30', W.-<br>261°30', R.-300°.  |
| 2263<br>A 2816.5          | --Heugh.                                    | 55° 40.1' N<br>1° 47.9' W | <b>Oc.W.R.G.</b><br>period 6s<br>lt. 4s, ec. 2s                      | 79<br>24      | 5                       | Framework tower, black<br>triangular daymark point up;<br>26.             | G. 135°-308°, W.-311°, R.-<br>135°.   |
| 2264<br>A 2818            | Berwick Upon Tweed,<br>breakwater, head.    | 55° 45.9' N<br>1° 59.1' W | <b>Fl.W.</b><br>period 5s<br>fl. 0.5s, ec. 4.5s                      | 49<br>15      | 6                       | White round stone tower, red<br>cupola, red base; 43.                     | Visible 201°-009°.  |
|                           |   |                           | <b>F.G.</b>  | 26<br>8       | 1                       |   | Visible 009°-155°.  |
| 2268<br>A 2819            | -Breakwater, root.                          | 55° 46.0' N<br>1° 59.4' W | <b>2 F.G.</b> (vert.)  | 7<br>2        |                         |   |   |
| 2272<br>A 2820            | -Near root.                                 | 55° 45.9' N<br>1° 59.5' W | <b>Q.G.</b>  | 13<br>4       | 1                       | White column; 10.   |   |
| 2276<br>A 2824            | -Tweed Dock, S. pier, head.                 | 55° 45.9' N<br>2° 00.2' W | <b>2 F.R.</b> (vert.)  | 10<br>3       |                         |   |   |
| 2280<br>A 2823            | -Carr Rock jetty.                           | 55° 45.7' N<br>2° 00.0' W | <b>2 F.R.</b> (vert.)  |               |                         |   |   |
| 2284<br>A 2822            | -Spittal Range, front.                      | 55° 45.7' N<br>1° 59.7' W | <b>Fl.W.</b><br>period 4s  | 13<br>4       |                         | Orange mast, black bands,<br>orange triangular daymark<br>point down; 13. |   |
| 2288<br>A 2822.1          | --Rear, 55 meters 207° from<br>front.       | 55° 45.7' N<br>1° 59.4' W | <b>Fl.W.</b><br>period 4s  | 30<br>9       |                         | Orange mast, black bands,<br>orange triangular daymark<br>point down; 39. | Synchronized with front.  |

# Section 3

## East and North Coasts of Scotland Including Orkney and Shetland Islands

| (1)<br>No.          | (2)<br>Name and Location                 | (3)<br>Position           | (4)<br>Characteristic  | (5)<br>Height | (6)<br>Range | (7)<br>Structure                                  | (8)<br>Remarks   |
|---------------------|--|---------------------------|--|---------------|--------------|---|--|
| SCOTLAND-EAST COAST |  |                           |  |               |              |   |  |
| 2292<br>A 2834      | Burnmouth Range, front.                  | 55° 50.6' N<br>2° 04.2' W | <b>F.R.</b>  | 95<br>29      | 4            | White post; 7.                                    |  |
| 2296<br>A 2834.1    | -Rear, 45 meters from front.             | 55° 50.6' N<br>2° 04.1' W | <b>F.R.</b>  | 115<br>35     | 4            | White post; 7.                                    |  |
| 2300<br>A 2840      | Eyemouth Range, front.                   | 55° 52.5' N<br>2° 05.2' W | <b>F.G.</b>  | 30<br>9       | 6            | Orange column; 13.                                | Tide gauge.  |
| 2304<br>A 2840.1    | -Rear, 55 meters 174° from front.        | 55° 52.5' N<br>2° 05.2' W | <b>F.G.</b>  | 33<br>10      | 6            | Orange column; 20.                                |  |
| 2308<br>A 2841      | -E. breakwater, head.                    | 55° 52.5' N<br>2° 05.3' W | <b>Iso.R.</b><br>period 2s   | 26<br>8       | 8            | White mast; 16.                                   |  |
| 2312<br>A 2846      | St. Abbs Range, front.                   | 55° 53.9' N<br>2° 07.6' W | <b>F.R.</b>  | 7<br>2        | 1            | White post, red bands.                            |  |
| 2316<br>A 2846.1    | -Rear.                                   | 55° 53.9' N<br>2° 07.6' W | <b>F.R.</b>  | 13<br>4       | 1            | White post, red bands.                            |  |
| 2320<br>A 2850      | <b>St. Abbs Head.</b>                    | 55° 55.0' N<br>2° 08.3' W | <b>Fl.W.</b><br>period 10s<br>fl. 0.3s, ec. 9.7s   | 223<br>68     | 18           | White tower, building; 30.                        |  |
|                     | <b>RACON</b>                             |                           | <b>T(-)</b>  |               | 18           |   | (3 & 10cm).  |
| 2324<br>A 2852      | Torness Power Station, breakwater, head. | 55° 58.4' N<br>2° 24.4' W | <b>Fl.R.</b><br>period 5s<br>fl. 0.5s, ec. 4.5s  | 33<br>10      | 5            | Concrete column; 7.                               |  |
| DUNBAR:             |  |                           |  |               |              |   |  |
| 2332<br>A 2860      | -Victoria Harbor, middle quay.           | 56° 00.3' N<br>2° 30.9' W | <b>Q.R.</b>  | 20<br>6       | 3            | Column; 16.                                       |  |
| 2336<br>A 2856      | -Bayswell Hill Range, front.             | 56° 00.3' N<br>2° 31.2' W | <b>Oc.G.</b><br>period 6s<br>lt. 5s, ec. 1s  | 49<br>15      | 3            | Column, orange triangular daymark point up; 13.   | Intensified 188°-208°.   |
| 2340<br>A 2856.1    | --Rear 198° from front.                  | 56° 00.2' N<br>2° 31.2' W | <b>Oc.G.</b><br>period 6s  | 72<br>22      | 3            | Column, orange triangular daymark point down; 13. | Synchronized with front. Intensified 188°-208°.                                    |
| FIRTH OF FORTH:     |  |                           |  |               |              |   |  |
| 2344<br>A 2864      | -Bass Rock.                              | 56° 04.6' N<br>2° 38.5' W | <b>Fl.(3)W.</b><br>period 20s<br>fl. 0.5s, ec. 2s<br>fl. 0.5s, ec. 2s<br>fl. 0.5s, ec. 14.5s                     | 151<br>46     | 10           | White tower, dwelling; 66.                        | Visible 241°-107°.   |
| 2348<br>A 2866      | -North Berwick, N. pier, head.           | 56° 03.7' N<br>2° 43.2' W | <b>F.W.R.</b>  | 23<br>7       | 3            | Post; 10.   | R. seaward, W. over harbor. Extinguished when vessels cannot enter.                |
| 2352<br>A 2868      | <b>-Fidra Island.</b>                    | 56° 04.4' N<br>2° 47.1' W | <b>Fl.(4)W.</b><br>period 30s<br>fl. 0.8s, ec. 2s<br>fl. 0.8s, ec. 2s<br>fl. 0.8s, ec. 2s<br>fl. 0.8s, ec. 20.8s | 112<br>34     | 15           | White brick tower; 56.                            | Visible 267°30'-268°, 271°30'-277° and 280°-266°.                                  |
| 2356<br>A 2872      | -Port Seton, E. pier, head.              | 55° 58.4' N<br>2° 57.3' W | <b>Iso.W.R.</b><br>period 4s   | 34<br>10      | W. 9<br>R. 6 | White metal framework tower; 23.                  | R. 060°-105°, W.-225°, R.-275°.<br><b>Bell:</b> Sounded when vessels are expected. |



| (1)<br>No.                 | (2)<br>Name and Location   | (3)<br>Position           | (4)<br>Characteristic  | (5)<br>Height | (6)<br>Range   | (7)<br>Structure                                     | (8)<br>Remarks  |
|----------------------------|--|---------------------------|--|---------------|----------------|--|---|
| <b>SCOTLAND-EAST COAST</b> |  |                           |  |               |                |  |   |
| 2360<br>A 2874             | -Cockenzie, jetty, head.   | 55° 58.3' N<br>2° 58.4' W | <b>Q.R.</b>  | 20<br>6       | 1              | Lantern.   |   |
| 2364<br>A 2878             | -Fisherrow, E. pier, head.   | 55° 56.8' N<br>3° 04.1' W | <b>Oc.W.</b><br>period 6s<br>lt. 4s, ec. 2s  | 16<br>5       | 6              | Metal framework tower; 10.                           |   |
| -Leith:                    |  |                           |  |               |                |  |   |
| 2368<br>A 2884             | --E. breakwater, head.   | 55° 59.5' N<br>3° 10.9' W | <b>Iso.R.</b><br>period 4s   | 23<br>7       | 9              | Red lantern, concrete base; 13.                      |   |
| 2374<br>A 2887             | --Entrance jetty.  | 55° 59.5' N<br>3° 11.0' W | <b>L.F.I.R.</b><br>period 6s<br>fl. 2s, ec. 4s   |               |                | Dolphin.   |   |
| -Granton:                  |  |                           |  |               |                |  |   |
| 2380<br>A 2904             | --E. breakwater, head.   | 55° 59.3' N<br>3° 13.2' W | <b>Fl.R.</b><br>period 2s<br>fl. 0.3s, ec. 1.7s  | 18<br>5       | 6              | White square brick building; 16.                     |   |
| 2388<br>A 2912             | -Inchkeith.  | 56° 02.0' N<br>3° 08.2' W | <b>Fl.W.</b><br>period 15s<br>fl. 0.4s, ec. 14.6s  | 220<br>67     | 14             | Stone tower; 62.                                     |   |
| 2390<br>A 2915             | -Hawkcraig Point Range, front.   | 56° 03.0' N<br>3° 17.1' W | <b>Iso.W.</b><br>period 5s   | 39<br>12      | 14             | White tower, red band; 13.                           | Visible 282°-302°.  |
| 2390.1<br>A 2915.1         | --Rear, 96 meters 292° from front.   | 56° 03.0' N<br>3° 17.1' W | <b>Iso.W.</b><br>period 5s   | 52<br>16      | 14             | White tower, red band; 26.                           | Visible 282°-302°.  |
| 2392<br>A 2916             | -Oxcars, on rock.  | 56° 01.4' N<br>3° 16.8' W | <b>Fl.(2)W.R.</b><br>period 7s<br>fl. 0.5s, ec. 1s<br>fl. 0.5s, ec. 5s                           | 52<br>16      | W. 13<br>R. 12 | White tower, red band; 72.                           | W. 072°-087°, R.-196°, W.-313°, R.-072°. <b>Radar reflector.</b>                      |
| 2393<br>A 2915.4           | - <b>Braefoot Bay</b> Terminal Range, front.   | 56° 02.2' N<br>3° 18.7' W | <b>Fl.W.</b><br>period 3s  | 20<br>6       | 15             | White post, dolphin, triangular daymark point up; 7. | Visible 237°12'-257°12'.<br>2 F.G. (vert.) mark 4 berthing and 4 mooring dolphins.    |
| 2394<br>A 2915.41          | --Rear, 88 meters 247°15' from front.  | 56° 02.1' N<br>3° 18.8' W | <b>Fl.W.</b><br>period 3s  | 40<br>12      | 15             | White post, jetty, triangular daymark point down; 7. | Visible 237°12'-257°12'.<br>Synchronized with front.                                  |
| -Inverkeithing:            |  |                           |  |               |                |  |   |
| 2396<br>A 2919             | --St. David's Beacon, 098°.  | 56° 01.4' N<br>3° 22.3' W | <b>Fl.G.</b><br>period 5s<br>fl. 0.2s, ec. 4.8s  | 10<br>3       | 7              | Pile, green square daymark.                          |   |
| 2408<br>A 2916.5           | -Inchcolm E. point.  | 56° 01.7' N<br>3° 17.8' W | <b>Fl.(3)W.</b><br>period 15s<br>fl. 0.5s, ec. 1.5s<br>fl. 0.5s, ec. 1.5s<br>fl. 0.5s, ec. 10.5s | 66<br>20      | 10             | Gray metal framework tower; 33.                      | Partially obscured by shore 075°-145°30'.   |
| 2409<br>A 2917.1           | -N. front, 256°45' from common rear.   | 56° 01.8' N<br>3° 18.3' W | <b>Q.W.</b>  | 23<br>7       | 7              | White tower; 7.                                      | Visible 062°30'-082°30'.<br>Synchronized with S. front.                               |
| 2409.1<br>A 2916.9         | -S. front, 246° from common rear.  | 56° 01.8' N<br>3° 18.3' W | <b>Q.W.</b>  | 23<br>7       | 7              | White tower; 7.                                      | Visible 062°30'-082°30'.  |
| 2409.2<br>A 2917           | --Inchcolm W., common rear, 80 meters 256°45' from N. front, 84 meters 246° from S. front. | 56° 01.8' N<br>3° 18.2' W | <b>Iso.W.</b><br>period 5s   | 36<br>11      | 7              | White tower; 7.                                      | Visible 062°30'-082°30'.  |
| -River Forth:              |  |                           |  |               |                |  |   |
| 2412<br>A 2925.9           | --Hawes Pier.  | 55° 59.6' N<br>3° 23.2' W | <b>F.R.</b>  | 7<br>2        |                |  |   |
| 2416<br>A 2925             | --Forth Railway Bridge, S. span.   | 55° 59.9' N<br>3° 23.3' W | <b>F.W.</b>  | 154<br>47     | 5              |  | 2 F.R. 47m 5M mark width of navigable span on each side of bridge.<br>Shown 24 hours. |

| (1)<br>No.                 | (2)<br>Name and Location                          | (3)<br>Position           | (4)<br>Characteristic   | (5)<br>Height | (6)<br>Range | (7)<br>Structure                                       | (8)<br>Remarks  |
|----------------------------|---|---------------------------|---|---------------|--------------|--|---|
| <b>SCOTLAND-EAST COAST</b> |   |                           |   |               |              |  |   |
| 2416.1<br>A 2923           | --N. span.  | 56° 00.2' N<br>3° 23.4' W | <b>F.W.</b>   | 154<br>47     | 5            |  | 2 F.R. 47m 5M mark width of navigable span on each side of bridge.<br>Shown 24 hours.                           |
| 2418<br>A 2929             | --Forth Road Bridge.                              | 56° 00.1' N<br>3° 24.2' W | <b>Iso.W.</b><br>period 4s  | 164<br>50     | 8            | Underside of main span.                                | 2 Iso.R. 4s 7m 6M and 2 Iso.G. 4s 7m 6M mark width of navigable span on each side of bridge.<br>Shown 24 hours. |
| 2420<br>A 2934             | -Port Edgar, W. breakwater, head, 244°.           | 55° 59.9' N<br>3° 24.8' W | <b>Fl.R.</b><br>period 4s<br>fl. 1s, ec. 3s   | 13<br>4       | 8            | White blockhouse; 13.                                  | 3 Q.Y. lights mark breakwater. Three 2 F.R. (vert.) marks N. ends of marina pontoons inside the harbor.         |
| 2421<br>A 2938.3           | --Queensferry Crossing, S. span.                  | 56° 00.1' N<br>3° 24.9' W | <b>Iso.W.</b><br>period 8s  | 184<br>56     | 8            |  | Iso.R. 2s 7m 5M and Q.G. 58m 5M mark width of navigable span on each side of bridge.                            |
| 2422<br>A 2937.8           | --Central Tower.                                  | 56° 00.3' N<br>3° 24.8' W | <b>Iso.W.</b><br>period 2s  | 23<br>7       | 9            |  |   |
| 2423<br>A 2937.4           | --N. span.  | 56° 00.5' N<br>3° 24.6' W | <b>Iso.W.</b><br>period 4s  | 184<br>56     | 8            |  | Q.R. 58m 5M and Iso.G. 2s 7m 5M mark width of navigable span on each side of bridge.                            |
| 2424<br>A 2936             | --Beamer Rock, E. side.                           | 56° 00.3' N<br>3° 24.7' W | <b>Fl.W.</b><br>period 3s<br>fl. 0.2s, ec. 2.8s   | 16<br>5       | 9            | White metal post.                                      |   |
| 2424.1<br>A 2935           | --W. side.  | 56° 00.3' N<br>3° 24.8' W | <b>Fl.W.</b><br>period 3s<br>fl. 0.2s, ec. 2.8s   | 16<br>5       | 9            | White metal post.                                      |   |
| 2428<br>A 2942             | -Rosyth, jetty, S. arm.                           | 56° 01.1' N<br>3° 26.6' W | <b>L.Fl.(2)W.R.</b><br>period 12s<br>fl. 2s, ec. 2s<br>fl. 2s, ec. 6s                       | 16<br>5       | W. 9<br>R. 6 | Brick hut; 13.   | W. 010°-280°, R. 010°. 3 Q.Y. shown along S. Arm Jetty when dock in use. 4 F.R. lights on tower 230 meters WNW. |
| 2432<br>A 2940             | -Rosyth Dockyard Main Channel, Beacon A, 323°30'. | 56° 01.2' N<br>3° 25.6' W | <b>Dir.W.R.G.</b><br>period 9s<br>fl. 6s, ec. 3s  | 23<br>7       | 4            | White post, red bands, red square daymark.             | Oc.G. 318°-321°, Oc.W.-326°, Oc.R.-328°. Shown 24 hours.  |
| 2444<br>A 2945             | -Middle jetty, head.                              | 56° 01.3' N<br>3° 26.6' W | <b>F.G.R.G.</b> (vert.)   | 23<br>7       |              | Foot of framework tower. Floodlit.                     | 2.5 meters apart.   |
| 2448<br>A 2947             | -P jetty, S. head.                                | 56° 01.4' N<br>3° 26.6' W | <b>F.G.R.G.</b> (vert.)   |               |              |  |   |
| 2452<br>A 2949             | -Charlestown Range, front.                        | 56° 02.2' N<br>3° 30.7' W | <b>Iso.G.</b><br>period 4s  | 13<br>4       | 10           | Yellow pile, yellow triangular daymark point up; 20.   | Visible 009°-039°.  |
| 2456<br>A 2949.1           | --Rear.   | 56° 02.3' N<br>3° 30.6' W | <b>Iso.G.</b><br>period 4s  | 19<br>6       | 10           | Yellow pile, yellow triangular daymark point down; 16. | Visible 009°-039°. Synchronized with front.   |
| 2460<br>A 2951             | -Crombie Jetty, downstream dolphin.               | 56° 01.9' N<br>3° 31.8' W | <b>2 F.G.</b> (vert.)   | 26<br>8       | 4            | Column; 16.  | 2 meters apart.   |
| 2464<br>A 2951.5           | --Upstream dolphin.                               | 56° 02.0' N<br>3° 32.1' W | <b>2 F.G.</b> (vert.)   | 26<br>8       | 4            | Column; 16.  | 2 meters apart.   |
| 2466<br>A 2954             | -Bo'ness, Carriden Outfall.                       | 56° 01.3' N<br>3° 33.7' W | <b>Fl.Y.</b><br>period 5s   |               | 3            | Yellow pile beacon, yellow rectangular daymark; 7.     |   |
| 2468<br>A 2956             | -Torry.   | 56° 02.5' N<br>3° 35.3' W | <b>Q.G.</b>   | 16<br>5       | 4            | Green round structure; 39.                             |   |
| 2472<br>A 2960             | -Grangemouth No 1.                                | 56° 02.1' N<br>3° 38.1' W | <b>Fl.(3)R.</b><br>period 10s<br>fl. 0.5s, ec. 1s<br>fl. 0.5s, ec. 1s<br>fl. 0.5s, ec. 6.5s | 13<br>4       | 6            | Pile, red rectangular daymark.                         |   |
| 2480<br>A 2962             | --No 3.   | 56° 02.3' N<br>3° 39.2' W | <b>Fl.R.</b><br>period 4s   | 13<br>4       | 3            | Pile, red rectangular daymark.                         |   |

| (1)<br>No.                     | (2)<br>Name and Location          | (3)<br>Position           | (4)<br>Characteristic  | (5)<br>Height | (6)<br>Range | (7)<br>Structure               | (8)<br>Remarks  |
|--------------------------------|-----------------------------------|---------------------------|--|---------------|--------------|--------------------------------|---|
| <b>SCOTLAND-EAST COAST</b>     |                                   |                           |  |               |              |                                |   |
| 2488<br>A 2964                 | --No 5.                           | 56° 02.3' N<br>3° 39.9' W | <b>Fl.R.</b><br>period 2s<br>fl. 0.5s, ec. 1.5s                  | 13<br>4       | 5            | Pile, red rectangular daymark. |   |
| 2490                           | --No 7 Buoy, RACON.               | 56° 02.8' N<br>3° 10.8' W | <b>T(-)</b><br>period 60s  |               | 5            |                                | Frequency coverage 9300-9500 MHz.<br>(3cm).   |
| 2492<br>A 2978                 | --Longannet Point.                | 56° 02.8' N<br>3° 41.0' W | <b>L.Fl.G.</b><br>period 10s<br>fl. 4s, ec. 6s                   | 16<br>5       | 6            |                                |   |
| --Hound Point Marine Terminal: |                                   |                           |  |               |              |                                |   |
| 2493<br>A 2918.9               | --Berth No 2, NE. dolphin.        | 56° 00.5' N<br>3° 21.2' W | <b>2 F.R.</b> (vert.)  | 23<br>7       | 5            | Post.                          | <b>Horn:</b> 3 bl. ev. 90s (bl. 1.5s, si. 1.5s, bl. 1.5s, si. 1.5s, bl. 1.5s, si. 82.5s). |
| 2493.1<br>A 2918.8             | ---E. end.                        | 56° 00.5' N<br>3° 21.3' W | <b>2 F.R.</b> (vert.)  | 23<br>7       | 5            | Post.                          |   |
| 2493.2<br>A 2918.7             | ---W. end.                        | 56° 00.4' N<br>3° 21.4' W | <b>2 F.R.</b> (vert.)  | 23<br>7       | 5            | Post.                          |   |
| 2494<br>A 2918.2               | --Berth No 1, E. end.             | 56° 00.4' N<br>3° 21.7' W | <b>F.R.</b>  | 23<br>7       | 5            | Dolphin.                       |   |
| 2494.1<br>A 2918.4             | ---Center.                        | 56° 00.3' N<br>3° 21.8' W | <b>2 F.R.</b>  | 154<br>47     | 5            |                                | Aeromarine light.   |
| 2494.2<br>A 2918.5             | ---W. end.                        | 56° 00.3' N<br>3° 21.8' W | <b>F.R.</b>  | 23<br>7       | 5            | Dolphin.                       |   |
| 2494.3<br>A 2918.6             | ---SW. dolphin.                   | 56° 00.3' N<br>3° 21.9' W | <b>F.R.</b>  | 23<br>7       | 5            | Dolphin.                       |   |
| --Burntisland:                 |                                   |                           |  |               |              |                                |   |
| 2496<br>A 3028                 | --Outer E. pier, head.            | 56° 03.2' N<br>3° 14.2' W | <b>Fl.(2)G.</b><br>period 6s<br>fl. 1s, ec. 1s<br>fl. 1s, ec. 3s | 23<br>7       | 5            | Mast; 16.                      |   |
| 2500<br>A 3032                 | --Inner E. pier, head.            | 56° 03.3' N<br>3° 14.3' W | <b>2 F.G.</b> (vert.)  | 20<br>6       | 3            | White tower; 23.               | 1 meter apart.  |
| 2504<br>A 3030                 | --W. pier, inner head.            | 56° 03.3' N<br>3° 14.3' W | <b>2 F.R.</b> (vert.)  | 13<br>4       | 3            | White mast.                    |   |
| 2508<br>A 3026                 | ---Outer head.                    | 56° 03.2' N<br>3° 14.2' W | <b>Fl.(2)R.</b><br>period 6s<br>fl. 1s, ec. 1s<br>fl. 1s, ec. 3s | 23<br>7       |              | White tower; 20.               |   |
| --Kirkcaldy:                   |                                   |                           |  |               |              |                                |   |
| 2512<br>A 3036                 | --E. pier, head.                  | 56° 06.8' N<br>3° 08.9' W | <b>Fl.G.</b><br>period 5s  | 39<br>12      | 3            | Metal column; 23.              |   |
| --Methil:                      |                                   |                           |  |               |              |                                |   |
| 2532<br>A 3050                 | --Outer pier, head.               | 56° 10.8' N<br>3° 00.5' W | <b>Oc.G.</b><br>period 6s<br>lt. 4s, ec. 2s                      | 26<br>8       | 5            | White tower; 26.               | Visible 280°-100°.  |
| 2536<br>A 3052                 | --Entrance to No 2 Dock, W. side. | 56° 10.8' N<br>3° 00.5' W | <b>2 F.R.</b> (vert.)  | 20<br>6       |              | Mast; 13.                      | 2 meters apart.   |
| 2540<br>A 3054                 | ---E. side.                       | 56° 10.9' N<br>3° 00.5' W | <b>2 F.G.</b> (vert.)  | 20<br>6       |              | Mast; 13.                      | 2 meters apart.   |
| 2552<br>A 3060                 | --Elie Ness.                      | 56° 11.0' N<br>2° 48.8' W | <b>Fl.W.</b><br>period 6s<br>fl. 0.2s, ec. 5.8s                  | 49<br>15      | 17           | White tower; 36.               |   |

| (1)<br>No.                 | (2)<br>Name and Location             | (3)<br>Position           | (4)<br>Characteristic  | (5)<br>Height | (6)<br>Range         | (7)<br>Structure                  | (8)<br>Remarks   |
|----------------------------|--------------------------------------|---------------------------|--|---------------|----------------------|-----------------------------------|--|
| <b>SCOTLAND-EAST COAST</b> |                                      |                           |  |               |                      |                                   |  |
| -St. Monance:              |                                      |                           |  |               |                      |                                   |  |
| 2556<br>A 3064             | --Breakwater, head.                  | 56° 12.2' N<br>2° 45.9' W | <b>Oc.W.R.G.</b><br>period 6s<br>lt. 4.5s, ec. 1.5s                        | 16<br>5       | W. 7<br>R. 4<br>G. 4 |                                   | G. 282°-355°, W.-026°, R.-038°.  |
| 2560<br>A 3066             | --E. pier, head.                     | 56° 12.2' N<br>2° 46.0' W | <b>2 F.G.</b> (vert.)  | 20<br>6       | 4                    | Orange tripod; 10.                | <b>Bell:</b> Sounded when local fishing vessels are expected to return.  |
| 2564<br>A 3068             | --W. pier.                           | 56° 12.2' N<br>2° 46.0' W | <b>2 F.R.</b> (vert.)  | 20<br>6       | 4                    | Post on parapet; 13.              |  |
| -Pittweem:                 |                                      |                           |  |               |                      |                                   |  |
| 2568<br>A 3070             | --Middle pier Range, front.          | 56° 12.7' N<br>2° 43.7' W | <b>F.R.</b>  | 13<br>4       | 5                    | White column, orange stripe; 10.  |  |
| 2572<br>A 3070.1           | --Inner end, rear, 037° from front.  | 56° 12.8' N<br>2° 43.6' W | <b>F.R.</b>  | 26<br>8       | 5                    | White column, orange stripe; 33.  |  |
| 2576<br>A 3073             | --E. breakwater.                     | 56° 12.6' N<br>2° 43.7' W | <b>Fl.(2)R.G.</b><br>period 5s   | 30<br>9       | R. 9<br>G. 6         | Metal column, masonry base; 23.   | R. 265°-345°, G.-055°.   |
| 2580<br>A 3073.2           | -Beacon Rock.                        | 56° 12.6' N<br>2° 43.8' W | <b>Fl.R.</b><br>period 4s  | 10<br>3       | 2                    | Mast.                             |  |
| 2584<br>A 3080             | --E. pier No 2.                      | 56° 13.1' N<br>2° 41.8' W | <b>Fl.G.</b><br>period 3s<br>fl. 0.3s, ec. 2.7s                            | 20<br>6       | 4                    | Red column; 20.                   |  |
| 2588<br>A 3078             | --W. pier No 1.                      | 56° 13.2' N<br>2° 41.8' W | <b>2 F.R.</b> (vert.)  | 16<br>5       | 4                    | Gray metal post.                  | 2 meters apart.<br>Traffic signals.<br><b>Horn:</b> 3 bl. ev. 60s (bl. 2.5s, si. 2.5s, bl. 2.5s, si. 2.5s, bl. 2.5s, si. 47.5s).<br>Sounded when fishing boats are expected. |
| -Anstruther:               |                                      |                           |  |               |                      |                                   |  |
| 2592<br>A 3082             | --Inner end of E. pier range, front. | 56° 13.3' N<br>2° 41.8' W | <b>F.G.</b>  | 23<br>7       | 4                    | White mast; 20.                   |  |
| 2596<br>A 3082.1           | ---Rear, 38 meters from front.       | 56° 13.3' N<br>2° 41.5' W | <b>F.G.</b>  | 36<br>11      | 4                    | White mast; 26.                   |  |
| 2600<br>A 3090             | <b>-Isle of May.</b>                 | 56° 11.1' N<br>2° 33.5' W | <b>Fl.(2)W.</b><br>period 15s<br>fl. 0.3s, ec. 1.6s<br>fl. 0.3s, ec. 12.8s | 240<br>73     | 22                   | Square tower, stone dwelling; 79. |  |
| 2604<br>A 3100             | -Crail Range, front.                 | 56° 15.4' N<br>2° 37.9' W | <b>F.R.</b>  | 79<br>24      | 6                    | Stone beacon; 20.                 | Not shown when harbor is closed.   |
| 2608<br>A 3100.1           | --Rear, 30 meters 295° from front.   | 56° 15.4' N<br>2° 37.8' W | <b>F.R.</b>  | 98<br>30      | 6                    | Stone beacon; 16.                 |  |
| 2612<br>A 3102             | <b>-Fife Ness.</b>                   | 56° 16.7' N<br>2° 35.2' W | <b>Iso.W.R.</b><br>period 10s  | 39<br>12      | W. 15<br>R. 12       | White building; 16.               | W. 143°-197°, R.-217°, W.-023°.<br><b>AIS</b> (MMSI No 002320798).   |
| 2614<br>A 3104.5           | -St Andrews, pier.                   | 56° 20.4' N<br>2° 47.1' W | <b>Dir.Iso.W.R.G.</b><br>period 2s   | 56<br>17      | 9                    | Lookout building.                 | Iso.G. 272°-276°, Al.Iso.WG.-277°, Iso.W.-278°, Al.Iso.WR.-279°, Iso.R.-283°.<br>Shown 24 hours.   |
| 2616<br>A 3108             | <b>-Bell Rock.</b>                   | 56° 26.1' N<br>2° 23.2' W | <b>Fl.W.</b><br>period 5s<br>fl. 0.1s, ec. 4.9s                            | 92<br>28      | 18                   | White round tower; 118.           |  |
| -RACON                     |                                      |                           |  |               |                      |                                   |  |
|                            |                                      |                           | <b>M(— —)</b><br>period 72s  |               | 18                   |                                   | (3 & 10cm).  |
| 2617<br>A 3107             | -Meteorological Mast.                | 56° 26.4' N<br>2° 14.5' W | <b>Mo.(U)W.</b><br>period 15s  | 72<br>22      | 10                   | Mast; 380.                        | <b>AIS</b> (MMSI No 992351153).<br><b>Horn:</b> Mo.(U) 30s.  |

| (1)<br>No.                 | (2)<br>Name and Location                                   | (3)<br>Position           | (4)<br>Characteristic  | (5)<br>Height | (6)<br>Range            | (7)<br>Structure  | (8)<br>Remarks  |
|----------------------------|--|---------------------------|--|---------------|-------------------------|---|---|
| <b>SCOTLAND-EAST COAST</b> |  |                           |  |               |                         |   |   |
| 2620<br>A 3142             | Tayport High.  | 56° 27.2' N<br>2° 53.9' W | <b>Dir.Iso.W.R.G.</b><br>period 3s   | 79<br>24      | W. 14<br>R. 14<br>G. 14 | White tower; 75.  | G. 267°-268°, W.-270°, R.-271°.   |
| 2624<br>A 3129             | Tentsmuir Point.   | 56° 26.6' N<br>2° 49.6' W | <b>Fl.Y.</b><br>period 5s<br>fl. 1s, ec. 4s  |               |                         | Yellow beacon, yellow diamond daymark.                            | Visible 198°-208°.  |
| 2626                       | Abertay RACON.   | 56° 27.4' N<br>2° 40.6' W | <b>T(-)</b>  |               | 8                       |   | (3cm).  |
| 2628<br>A 3129.5           | Barry Sands, Monifieth.                                    | 56° 28.8' N<br>2° 47.9' W | <b>Fl.Y.</b><br>period 5s<br>fl. 1s, ec. 4s  |               |                         | Yellow beacon, yellow diamond daymark.                            | Visible 018°-028°. Marks gas pipeline.  |
| 2632<br>A 3216             | Arbroath, E. pier, S. elbow.                               | 56° 33.2' N<br>2° 35.0' W | <b>Fl.G.</b><br>period 3s  | 26<br>8       | 5                       | White tower; 30.  | F.R. exhibited when harbor is closed.<br>Fishing.<br><b>Siren:</b> 3 bl. ev. 60s (bl. 3s, si. 1.5s, bl. 3s, si. 1.5s, bl. 3s, si. 48s). |
| 2633<br>A 3212             | -Range, front.   | 56° 33.2' N<br>2° 35.0' W | <b>F.R.</b>  | 23<br>7       | 5                       | White column; 13.   |   |
| 2634<br>A 3212.1           | --Rear, 50 meters 299°15' from front.                      | 56° 33.3' N<br>2° 35.2' W | <b>F.R.</b>  | 42<br>13      | 5                       | White column; 30.   |   |
| 2636<br>A 3220             | <b>Scurdie Ness.</b>                                       | 56° 42.1' N<br>2° 26.3' W | <b>Fl.(3)W.</b><br>period 20s<br>fl. 0.5s, ec. 2s<br>fl. 0.5s, ec. 2s<br>fl. 0.5s, ec. 14.5s | 125<br>38     | 23                      | White tower; 128.   |   |
|                            | RACON  |                           | <b>T(-)</b>  |               | 14                      |   | (3 & 10cm).   |
| 2640<br>A 3222             | Montrose Range, front.                                     | 56° 42.2' N<br>2° 27.4' W | <b>F.R.</b>  | 36<br>11      | 5                       | White twin pillars, red bands; 33.                                |   |
| 2644<br>A 3222.1           | -Rear, N. side of entrance, 272 meters 271°31' from front. | 56° 42.2' N<br>2° 27.7' W | <b>F.R.</b>  | 59<br>18      | 5                       | White tower, red cupola; 62.                                      |   |
| 2648<br>A 3223             | Montrose inner Range, front.                               | 56° 42.1' N<br>2° 28.1' W | <b>F.G.</b>  | 69<br>21      | 5                       | Metal framework tower, orange triangular daymark point up; 66.    |   |
| 2652<br>A 3223.1           | -Rear, 180 meters 264°58' from front.                      | 56° 42.1' N<br>2° 28.3' W | <b>F.G.</b>  | 108<br>33     | 5                       | Metal framework tower, orange triangular daymark point down; 105. |   |
| 2656<br>A 3226             | Johnshaven Range, front.                                   | 56° 47.7' N<br>2° 20.1' W | <b>F.R.</b>  | 16<br>5       |                         | Metal pole, yellow square daymark; 7.                             |   |
| 2660<br>A 3226.1           | -Rear, 85 meters 316° from front.                          | 56° 47.6' N<br>2° 19.9' W | <b>F.G.</b>  | 66<br>20      |                         | Metal pole, yellow square daymark; 10.                            | F.R. shown when unsafe to navigate.   |
| 2664<br>A 3228             | Gourdon Range, front.                                      | 56° 49.8' N<br>2° 17.2' W | <b>F.R.</b>  | 10<br>3       | 5                       | White rectangular daymark, house; 16.                             | F.G. shown when unsafe to navigate.<br>Storm signals.<br><b>Siren:</b> 2 bl. ev. 60s (bl. 6s, si. 6s, bl. 6s, si. 42s). Fishing.        |
| 2668<br>A 3228.1           | -Rear, 120 meters 358° from front.                         | 56° 49.8' N<br>2° 17.1' W | <b>F.R.</b>  | 100<br>30     | 5                       | White tower; 20.  |   |
| 2672<br>A 3229             | -W. pier No 1.   | 56° 49.6' N<br>2° 17.2' W | <b>Fl.W.R.G.</b><br>period 3s<br>fl. 1s, ec. 2s  | 16<br>5       | W. 9<br>R. 7<br>G. 7    | Metal column; 3.  | G. 180°-344°, W.-354°, R.-180°.   |
| 2676<br>A 3230             | -E. pier, head.  | 56° 49.7' N<br>2° 17.2' W | <b>Q.W.</b>  | 10<br>3       | 3                       | Metal column; 3.  |   |
| <b>STONEHAVEN:</b>         |  |                           |  |               |                         |   |   |
| 2684<br>A 3238             | -Outer breakwater, head.                                   | 56° 57.6' N<br>2° 12.0' W | <b>Iso.W.R.G.</b><br>period 4s   | 23<br>7       | 5                       | Metal post; 7.  | G. 214°-246°, W.-268°, R.-280°.   |

| (1)<br>No.                 | (2)<br>Name and Location                 | (3)<br>Position           | (4)<br>Characteristic  | (5)<br>Height | (6)<br>Range | (7)<br>Structure                                      | (8)<br>Remarks  |
|----------------------------|--|---------------------------|--|---------------|--------------|---|---|
| <b>SCOTLAND-EAST COAST</b> |  |                           |  |               |              |   |   |
| 2688<br>A 3240             | -Inner side of harbor Range, front.      | 56° 57.6' N<br>2° 12.2' W | <b>F.W.</b>  | 20<br>6       | 5            | Mast; 16.   | For use inside harbor only.   |
| 2692<br>A 3240.1           | --Rear, 10 meters 273° from front.       | 56° 57.6' N<br>2° 12.2' W | <b>F.R.</b>  | 25<br>8       | 5            | Building, lantern; 23.                                |   |
| 2696<br>A 3246             | <b>Girdle Ness.</b>                      | 57° 08.3' N<br>2° 02.9' W | <b>Fl.(2)W.</b><br>period 20s<br>fl. 0.5s, ec. 2s<br>fl. 0.5s, ec. 17s             | 184<br>56     | 22           | White round tower; 121.                               | Obscured by Greg Ness when bearing more than about 020°-025°.<br><b>DGPS Station.</b> |
|                            | RACON                                    |                           | <b>G(— •)</b>  |               | 25           |   | (3 & 10cm).   |
| ABERDEEN:                  |  |                           |  |               |              |   |   |
| 2700<br>A 3252             | -N. pier, head.                          | 57° 08.7' N<br>2° 03.7' W | <b>Iso.G.</b><br>period 4s   | 36<br>11      | 10           | White tower; 30.                                      | <b>Bell:</b> 3 str. ev. 12s.  |
|                            |  |                           | <b>F.Y.</b>  | 33<br>10      |              |   | Visible 136°-336°.<br>Shown in fog.   |
| 2704<br>A 3250             | -S. breakwater, head.                    | 57° 08.7' N<br>2° 03.3' W | <b>Fl.(3)R.</b><br>period 8s<br>fl. 1s, ec. 1s<br>fl. 1s, ec. 1s<br>fl. 1s, ec. 3s | 75<br>23      | 7            | White tower.  |   |
| 2708<br>A 3253             | -Old S. breakwater.                      | 57° 08.6' N<br>2° 03.7' W | <b>Q.R.</b>  | 10<br>3       | 2            | Truncated concrete pillar.                            |   |
| 2710                       | <i>Aberdeen Fairway Buoy</i> ,<br>RACON. | 57° 09.3' N<br>2° 01.9' W | <b>T(—)</b><br>period 70s  |               | 7            | (3cm).  |   |
| 2712<br>A 3254             | -Abercromby jetty, head.                 | 57° 08.5' N<br>2° 04.1' W | <b>Oc.G.</b><br>period 4s<br>lt. 3s, ec. 1s  | 17<br>5       | 4            | STARBOARD (A)<br>G, column, topmark; 10.              | Visible 230°-080°.  |
| 2716<br>A 3256             | -S. jetty, head.                         | 57° 08.5' N<br>2° 04.1' W | <b>Q.R.</b>  | 13<br>4       | 4            | Gray metal post.                                      |   |
| 2720<br>A 3258             | -Torry Range, front.                     | 57° 08.4' N<br>2° 04.5' W | <b>F.R.</b>  | 46<br>14      | 5            | White tower; 43.                                      | Shows F.G. when unsafe to navigate.   |
| 2724<br>A 3258.1           | --Rear, 205 meters 237°12' from front.   | 57° 08.3' N<br>2° 04.7' W | <b>F.R.</b>  | 62<br>19      | 5            | White tower; 46.                                      | Shows F.G. when unsafe to navigate.   |
| 2728<br>A 3264             | -Lower jetty, head.                      | 57° 08.5' N<br>2° 04.3' W | <b>Q.G.</b>  | 10<br>3       | 1            | STARBOARD (A)<br>G, column, topmark.                  |   |
| 2736<br>A 3274             | Don River, S. entrance point.            | 57° 10.4' N<br>2° 04.7' W | <b>Fl.W.</b><br>period 3s<br>fl. 0.5s, ec. 2.5s                                    | 52<br>16      | 5            | White tower.  |   |
| 2740<br>A 3280             | <b>Buchan Ness.</b>                      | 57° 28.2' N<br>1° 46.5' W | <b>Fl.W.</b><br>period 5s<br>fl. 0.3s, ec. 4.7s                                    | 131<br>40     | 18           | White tower, red band; 115.                           |   |
|                            | RACON                                    |                           | <b>O(— —)</b>  |               | 14           |   | (3 & 10cm).   |
| PETERHEAD:                 |  |                           |  |               |              |   |   |
| 2744<br>A 3284             | -S. breakwater, head.                    | 57° 29.8' N<br>1° 46.5' W | <b>Fl.(2)R.</b><br>period 12s<br>fl. 1s, ec. 1s<br>fl. 1s, ec. 9s                  | 78<br>24      | 7            | White round metal tower, black base; 56.              |   |
| 2748<br>A 3286             | -N. breakwater, head.                    | 57° 29.8' N<br>1° 46.3' W | <b>Iso.R.G.</b><br>period 6s   | 62<br>19      | 11           | White metal tripod; 33.                               | R. 171°-236°, G.-171°.<br><b>Horn:</b> 1 bl. ev. 30s (bl. 3s, si. 27s).               |
| 2752<br>A 3282             | -Kirktown Range, front.                  | 57° 30.2' N<br>1° 47.1' W | <b>Oc.R.</b><br>period 6s<br>lt. 5s, ec. 1s  | 46<br>14      | 10           | Framework mast, orange triangular daymark point up.   |   |
| 2756<br>A 3282.1           | --Rear, 91 meters 314° from front.       | 57° 30.2' N<br>1° 47.1' W | <b>Oc.R.</b><br>period 6s<br>lt. 5s, ec. 1s  | 69<br>21      | 10           | Framework mast, orange triangular daymark point down. | Synchronized with front.  |

| (1)<br>No.                 | (2)<br>Name and Location                             | (3)<br>Position           | (4)<br>Characteristic  | (5)<br>Height | (6)<br>Range   | (7)<br>Structure  | (8)<br>Remarks                                      |
|----------------------------|--|---------------------------|--|---------------|----------------|---|---|
| <b>SCOTLAND-EAST COAST</b> |  |                           |  |               |                |   |   |
| 2776<br>A 3304             | <b>Ratray Head.</b>                                  | 57° 36.6' N<br>1° 49.0' W | <b>Fl.(3)W.</b><br>period 30s<br>fl. 0.7s, ec. 2s<br>fl. 0.7s, ec. 2s<br>fl. 0.7s, ec. 23.9s | 92<br>28      | 18             | White tower, lower part granite,<br>upper brick; 112.           | R. lights on masts.                                 |
|                            | RACON  |                           | <b>M(— —)</b>  |               | 15             |   | (3 & 10cm).   |
| 2784<br>A 3308             | Cairnbulg Briggs.                                    | 57° 41.1' N<br>1° 56.5' W | <b>Fl.W.</b><br>period 10s<br>fl. 1s, ec. 9s   | 30<br>9       | 10             | Red beacon; 33.   |   |
| FRASERBURGH:               |  |                           |  |               |                |   |   |
| 2788<br>A 3312             | -Balaclava, breakwater, head.                        | 57° 41.5' N<br>1° 59.6' W | <b>Fl.(2)G.</b><br>period 8s<br>fl. 0.7s, ec. 1.3s<br>fl. 0.7s, ec. 5.3s                     | 85<br>26      | 6              | White stone tower, red band,<br>dome; 69.                       | Visible 178°-326°.                                  |
| 2792<br>A 3312.2           | -Spur, head.   | 57° 41.5' N<br>1° 59.7' W | <b>Fl.G.</b><br>period 6s<br>fl. 0.3s, ec. 5.7s  | 10<br>3       | 5              | White metal post; 7.  |   |
| 2796<br>A 3314             | -S. breakwater, head.                                | 57° 41.5' N<br>1° 59.7' W | <b>Fl.R.</b><br>period 6s<br>fl. 0.3s, ec. 5.7s  | 13<br>4       | 5              | White metal post; 10.   | Docking signals 130 meters<br>W. and 220 meters NW. |
| 2800<br>A 3316             | -Middle jetty Range, front.                          | 57° 41.6' N<br>2° 00.0' W | <b>Iso.R.</b><br>period 2s   | 40<br>12      | 9              | White mast, red bands; 30.                                      | Range 1M by day.                                    |
| 2804<br>A 3316.1           | --Rear, N. pier, root, 75 meters<br>291° from front. | 57° 41.6' N<br>2° 00.0' W | <b>Iso.R.</b><br>period 2s   | 56<br>17      | 9              | Metal mast; 36.   | Range 1M by day.                                    |
| 2808<br>A 3332             | <b>Kinnairds Head.</b>                               | 57° 41.9' N<br>2° 00.2' W | <b>Fl.W.</b><br>period 5s<br>fl. 0.2s, ec. 4.8s  | 82<br>25      | 22             | White tower; 33.  | Visible 092°-297°.                                  |
| BANNFF BAY:                |  |                           |  |               |                |   |   |
| 2812<br>A 3348             | -Macduff pier, head.                                 | 57° 40.3' N<br>2° 30.0' W | <b>Fl.(2)W.R.G.</b><br>period 6s<br>fl. 1s, ec. 1s<br>fl. 1s, ec. 3s                         | 39<br>12      | W. 9<br>R. 7   | White tower; 36.  | G. 025°-115°, W.-174°, R.-<br>210°.                 |
| 2816<br>A 3350             | -Range, front.                                       | 57° 40.3' N<br>2° 29.9' W | <b>F.R.</b>  | 92<br>28      | 3              | Post, red triangular daymark<br>point up.                       |   |
| 2820<br>A 3350.1           | --Rear, 60 meters 127° from<br>front.                | 57° 40.3' N<br>2° 29.9' W | <b>F.R.</b>  | 180<br>55     | 3              | Post, red triangular daymark<br>point up; 16.                   |   |
| 2824<br>A 3364             | Whitehills, pier, head.                              | 57° 40.8' N<br>2° 34.8' W | <b>Fl.W.R.</b><br>period 3s<br>fl. 0.3s, ec. 2.7s  | 23<br>7       | W. 9<br>R. 6   | White tower; 10.  | R. 132°-212°, W.-245°.                              |
| 2828<br>A 3368             | Portsoy Range, front.                                | 57° 41.1' N<br>2° 41.4' W | <b>Fl.G.</b><br>period 4s  | 66<br>20      | 3              | Metal post, concrete block.                                     |   |
| 2832<br>A 3368.1           | -Rear, on hill, 173° from front.                     | 57° 41.2' N<br>2° 41.3' W | <b>Q.G.</b>  | 72<br>22      | 3              | Black and white metal post, red<br>triangular daymark point up. |   |
| BUCKIE:                    |  |                           |  |               |                |   |   |
| 2836<br>A 3391             | -W. Muck.  | 57° 41.1' N<br>2° 58.0' W | <b>Q.R.</b>  | 16<br>5       | 3              | Tripod; 16.   |   |
| 2840<br>A 3394             | -N. breakwater, 60 meters from<br>head.              | 57° 40.8' N<br>2° 57.7' W | <b>Oc.R.</b><br>period 10s<br>lt. 7s, ec. 3s   | 49<br>15      | 15             | White tower; 49.  | Reserve light F.W.                                  |
| 2844<br>A 3396.1           | --Cliff Terrace.                                     | 57° 40.7' N<br>2° 57.4' W | <b>Iso.W.G.</b><br>period 2s   | 66<br>20      | W. 16<br>G. 12 | White column; 33.   | G. 090°-110°, W.-225°.                              |
| 2848<br>A 3392             | -N. breakwater, head.                                | 57° 40.9' N<br>2° 57.6' W | <b>2 F.R.</b> (vert.)  | 20<br>6       | 9              | Red column; 16.   | 3 F.R. (vert.) shown when<br>harbor closed.         |

| (1)<br>No.                 | (2)<br>Name and Location                    | (3)<br>Position           | (4)<br>Characteristic                               | (5)<br>Height | (6)<br>Range          | (7)<br>Structure                  | (8)<br>Remarks  |
|----------------------------|---|---------------------------|---|---------------|-----------------------|-----------------------------------|---|
| <b>SCOTLAND-EAST COAST</b> |   |                           |   |               |                       |                                   |   |
| 2856<br>A 3408             | Lossiemouth, S. pier, head.                 | 57° 43.4' N<br>3° 16.7' W | <b>Fl.R.</b><br>period 6s                           | 36<br>11      | 5                     | Mast; 36.                         | 2 F.R. range lights shown from middle jetty.  |
| HOPEMAN:                   |   |                           |   |               |                       |                                   |   |
| 2864<br>A 3416             | -S. pier, head.                             | 57° 42.7' N<br>3° 26.3' W | <b>Oc.G.</b><br>period 4s<br>lt. 3s, ec. 1s         | 26<br>8       | 4                     | Mast; 20.                         | Shown from Aug. 1 to Apr. 30. F.R. lights are shown from 4 radio masts 1.5M eastward. |
| 2868<br>A 3418             | -Elbow of N. quay Range, front.             | 57° 42.7' N<br>3° 26.1' W | <b>F.R.</b>   | 10<br>3       |                       |                                   |   |
| 2872<br>A 3418.1           | --Rear, 10 meters 081° from front.          | 57° 42.7' N<br>3° 26.1' W | <b>F.R.</b>   | 13<br>4       |                       | Post; 7.                          |   |
| BURGHHEAD:                 |   |                           |   |               |                       |                                   |   |
| 2876<br>A 3424             | -N. pier, head.                             | 57° 42.1' N<br>3° 30.0' W | <b>Oc.W.</b><br>period 8s<br>lt. 6s, ec. 2s         | 23<br>7       | 5                     | Concrete tower; 20.               |   |
| 2880<br>A 3426             | -Timber spur, head.                         | 57° 42.1' N<br>3° 29.9' W | <b>Q.R.</b>   | 10<br>3       | 5                     | Concrete structure; 10.           | Visible from SW. only.  |
| 2884<br>A 3428             | -S. pier, NW. corner.                       | 57° 42.1' N<br>3° 29.8' W | <b>Q.G.</b>   | 10<br>3       | 5                     | Wooden structure; 10.             | Visible from SW. only.  |
| 2892<br>A 3436             | Nairn, E. pier, head.                       | 57° 35.6' N<br>3° 51.6' W | <b>Oc.W.R.G.</b><br>period 4s<br>lt. 3s, ec. 1s     | 20<br>6       | 5                     | Octagonal concrete tower; 16.     | G. 359°30'-100°, W.-207°, R.-350°.  |
| 2896<br>A 3434             | -W. pier, head.                             | 57° 35.6' N<br>3° 51.5' W | <b>Q.G.</b>   | 16<br>5       | 1                     | Gray post.                        |   |
| FIRTH OF INVERNESS:        |   |                           |   |               |                       |                                   |   |
| 2900<br>A 3440             | -Chanonry.                                  | 57° 34.5' N<br>4° 05.4' W | <b>Oc.W.</b><br>period 6s<br>lt. 4.5s, ec. 1.5s     | 40<br>12      | 12                    | White tower; 43.                  | Visible 148°-073°.  |
| 2908<br>A 3442             | -Avoch, breakwater, head.                   | 57° 34.0' N<br>4° 09.8' W | <b>2 F.R.</b> (vert.)                               | 23<br>7       | 5                     | Concrete column.                  | 2 meters apart. Occasional.   |
| 2912<br>A 3444             | -Inverness.                                 | 57° 30.0' N<br>4° 13.2' W | <b>Fl.W.R.</b><br>period 2s<br>fl. 0.2s, ec. 1.8s   | 23<br>7       | W. 5<br>R. 4          | Red fiberglass beacon; 16.        | W. 078°-258°, R.-078°.  |
| 2916<br>A 3446             | -Craigton Point.                            | 57° 30.1' N<br>4° 14.0' W | <b>Fl.W.R.G.</b><br>period 4s<br>fl. 0.7s, ec. 3.3s | 19<br>6       | W. 11<br>R. 7<br>G. 7 | Building; 20.                     | W. 312°-048°, R.-064°, W.-085°, G.-104.   |
|                            | -RACON                                      |                           | <b>K(- • -)</b>                                     |               | 13                    |                                   | On beacon marking center of bridge 330 meters ESE. (3 & 10cm).                        |
| -Inverness:                |   |                           |   |               |                       |                                   |   |
| 2920<br>A 3448             | --On breakwater, W. side of river entrance. | 57° 29.7' N<br>4° 14.2' W | <b>Fl.G.</b><br>period 2s<br>fl. 0.5s, ec. 1.5s     | 27<br>8       | 4                     | Green framework tower; 13.        |   |
| 2922<br>A 3447.7           | --Inner Beacon.                             | 57° 29.7' N<br>4° 14.0' W | <b>Q.R.</b>   | 10<br>3       | 4                     | Pile structure, red platform; 10. |   |
| 2924<br>A 3449             | --Turning Beacon.                           | 57° 29.6' N<br>4° 14.1' W | <b>Fl.R.</b><br>period 3s<br>fl. 0.5s, ec. 2.5s     | 23<br>7       | 6                     |                                   |   |
| 2928<br>A 3454             | --Thornbush wharf, N. head.                 | 57° 29.4' N<br>4° 14.2' W | <b>Q.G.</b>   | 19<br>6       | 4                     | Metal column.                     |   |
| 2932<br>A 3457             | --New quay, N. head.                        | 57° 29.3' N<br>4° 13.8' W | <b>Q.R.</b>   | 16<br>5       | 3                     | Metal column.                     |   |



| (1)<br>No.                 | (2)<br>Name and Location               | (3)<br>Position           | (4)<br>Characteristic  | (5)<br>Height | (6)<br>Range          | (7)<br>Structure                             | (8)<br>Remarks   |
|----------------------------|--|---------------------------|--|---------------|-----------------------|--|--|
| <b>SCOTLAND-EAST COAST</b> |  |                           |  |               |                       |  |  |
| 2936<br>A 3460             | --Training wall, head.                 | 57° 29.2' N<br>4° 13.7' W | <b>Q.G.</b>  | 16<br>5       | 4                     | Black metal post, white bands;<br>30.        |  |
| 2938                       | Fairway Buoy.                          | 57° 40.0' N<br>3° 54.1' W | <b>L.F.I.W.</b><br>period 10s  |               |                       | SAFE WATER<br>RW, spherical.                 |  |
|                            | RACON                                  |                           | <b>M(— —)</b><br>period 75s  |               | 5                     |  | (3cm).   |
| 2944<br>A 3492             | -Nigg Ferry, jetty, SE. corner.        | 57° 41.5' N<br>4° 01.3' W | <b>2 F.G.</b> (vert.)  | 19<br>6       | 2                     | Metal structure; 13.                         |  |
| 2952<br>A 3493             | -Nigg Oil terminal, jetty, head.       | 57° 41.5' N<br>4° 02.6' W | <b>Oc.G.</b><br>period 5s<br>lt. 4s, ec. 1s  | 102<br>31     | 5                     | Gray metal framework tower; 89.<br>Floodlit. |  |
| 2956<br>A 3493.2           | --E., head.                            | 57° 41.6' N<br>4° 02.4' W | <b>2 F.G.</b> (vert.)  | 29<br>9       | 4                     | Gray post, dolphin; 16.                      | 2 meters apart.  |
| 2960<br>A 3493.3           | --W., head.                            | 57° 41.6' N<br>4° 02.7' W | <b>2 F.G.</b> (vert.)  | 29<br>9       | 4                     | Gray post, dolphin; 16.                      | 2 meters apart.  |
| 2968<br>A 3498.2           | --Off E. head.                         | 57° 41.2' N<br>4° 09.5' W | <b>Q.G.</b>  | 16<br>5       | 3                     | Dolphin.                                     |  |
| 2972<br>A 3498.4           | --Off W. head.                         | 57° 41.1' N<br>4° 09.9' W | <b>Fl.G.</b><br>period 4s<br>fl. 0.5s, ec. 3.5s  | 16<br>5       | 3                     | Dolphin.                                     |  |
| 2976<br>A 3499             | -BNOC Quay, SE. corner.                | 57° 41.1' N<br>4° 10.1' W | <b>Iso.G.</b><br>period 4s   | 29<br>9       | 6                     | Gray mast; 23.                               |  |
| 2980<br>A 3499.2           | --SW. Corner.                          | 57° 41.1' N<br>4° 10.4' W | <b>Oc.G.</b><br>period 8s<br>lt. 5s, ec. 3s  | 16<br>5       | 4                     |  |  |
| 2982<br>A 3503             | -Balintore Harbor.                     | 57° 45.2' N<br>3° 54.6' W | <b>Fl.G.</b><br>period 5s<br>fl. 0.5s, ec. 4.5s  | 16<br>5       | 5                     | Metal pole; 3.                               | End of jetty.  |
| 2984<br>A 3506             | <b>Tarbat Ness.</b>                    | 57° 51.9' N<br>3° 46.6' W | <b>Fl.(4)W.</b><br>period 30s<br>fl. 0.7s, ec. 2.1s<br>fl. 0.7s, ec. 2.1s<br>fl. 0.7s, ec. 2.1s<br>fl. 0.7s, ec. 20.9s | 174<br>53     | 24                    | White tower, red bands; 135.                 |  |
|                            | RACON                                  |                           | <b>T(—)</b>  |               | 14                    |  | (3 & 10cm).  |
| 2985<br>A 3508             | -Portmahomack pier, head.              | 57° 50.2' N<br>3° 49.8' W | <b>2 F.R.</b> (vert.)  | 23<br>7       | 5                     | Gray column.                                 | 2 meters apart.  |
| 2988<br>A 3522             | Lybster, S. pier, head.                | 58° 17.8' N<br>3° 17.4' W | <b>Oc.R.</b><br>period 6s<br>lt. 4s, ec. 2s  | 33<br>10      | 3                     | White tower.                                 |  |
| 2992<br>A 3521             | Ben-a-chielt AVIATION LIGHT.           | 58° 19.8' N<br>3° 22.8' W | <b>5 F.R.</b> (vert.)  | 1470<br>448   |                       | Mast.  |  |
| WICK:                      |  |                           |  |               |                       |  |  |
| 3000<br>A 3528             | -S. pier, head.                        | 58° 26.3' N<br>3° 04.6' W | <b>Fl.W.R.G.</b><br>period 3s<br>fl. 0.5s, ec. 2.5s  | 39<br>12      | W. 12<br>R. 9<br>G. 9 | White octagonal tower; 36.                   | G. 253°-270°, W.-286°, R.-<br>329°.                            |
| 3002<br>A 3527             | -288°30'.                              | 58° 26.6' N<br>3° 05.3' W | <b>Dir.W.R.G.</b><br>period 4s   | 30<br>9       | W. 10<br>R. 7<br>G. 7 | Metal column on N. end of<br>bridge; 23.     | Iso.G. 283°30'-287°12',<br>Iso.W.-289°42', Iso.R.-<br>293°30'. |
| 3004<br>A 3534             | -Near root of S. pier Range,<br>front. | 58° 26.3' N<br>3° 04.9' W | <b>F.R.</b>  | 16<br>5       |                       | Mast; 10.                                    |  |
| 3008<br>A 3534.1           | --Rear, 20 meters 234° from<br>front.  | 58° 26.3' N<br>3° 04.9' W | <b>F.R.</b>  | 26<br>8       |                       | Building, lantern; 19.                       |  |
| 3012<br>A 3544             | <b>Noss Head.</b>                      | 58° 28.7' N<br>3° 03.0' W | <b>Fl.W.R.</b><br>period 20s<br>fl. 0.5s, ec. 19.5s  | 174<br>53     | W. 25<br>R. 21        | White stone tower; 59.                       | R. 073°-191°, W.-045°.   |

| (1)<br>No.                     | (2)<br>Name and Location                       | (3)<br>Position           | (4)<br>Characteristic   | (5)<br>Height | (6)<br>Range | (7)<br>Structure           | (8)<br>Remarks  |
|--------------------------------|--|---------------------------|---|---------------|--------------|----------------------------|---|
| <b>SCOTLAND-NORTH COAST</b>    |  |                           |   |               |              |                            |   |
| 3016<br>A 3558                 | Duncansby Head.                                | 58° 38.6' N<br>3° 01.5' W | Fl.W.<br>period 12s<br>fl. 0.3s, ec. 11.7s  | 220<br>67     | 22           | White tower; 36.           |   |
|                                | RACON  |                           | T(—)  |               | 16           |                            | (3 & 10cm).   |
| 3020<br>A 3562                 | Pentland Skerries.                             | 58° 41.4' N<br>2° 55.5' W | Fl.(3)W.<br>period 30s<br>fl. 0.4s, ec. 5.6s<br>fl. 0.4s, ec. 5.6s<br>fl. 0.4s, ec. 17.6s                 | 171<br>52     | 23           | White tower; 118.          | AIS (MMSI No 992351086).  |
| 3024<br>A 3608                 | Lothar Rock.                                   | 58° 43.8' N<br>2° 58.7' W | Fl.W.<br>period 2s<br>fl. 0.6s, ec. 1.4s  | 42<br>13      | 6            | Framework structure; 39.   |   |
|                                | RACON  |                           | M(— —)  |               | 10           |                            | (3 & 10cm).   |
| 3028<br>A 3608.5               | South Ronaldsay, Burwick,<br>breakwater, head. | 58° 44.4' N<br>2° 58.2' W | 2 F.R. (vert.)  | 27<br>8       | 5            | Metal mast; 20.            | 2 meters apart.   |
| 3032<br>A 3568                 | Swilkie Point.                                 | 58° 41.8' N<br>3° 07.0' W | Fl.(2)W.<br>period 20s<br>fl. 0.3s, ec. 3.6s<br>fl. 0.3s, ec. 15.8s                                       | 105<br>32     | 20           | White tower; 75.           | AIS (MMSI No 992351092).  |
|                                | STROMA:  |                           |   |               |              |                            |   |
| 3036<br>A 3570                 | -Inner sound John O'Groats<br>pier, head.      | 58° 38.8' N<br>3° 04.1' W | Fl.R.<br>period 3s<br>fl. 0.4s, ec. 2.6s  | 13<br>4       | 2            | White post.                | Radar reflector.  |
| 3040<br>A 3574                 | Dunnet Head.                                   | 58° 40.3' N<br>3° 22.5' W | Fl.(4)W.<br>period 30s<br>fl. 0.7s, ec. 2s<br>fl. 0.7s, ec. 2s<br>fl. 0.7s, ec. 2s<br>fl. 0.7s, ec. 21.2s | 344<br>105    | 23           | White stone tower.         |   |
| 3052<br>A 3580                 | Thurso.  | 58° 36.0' N<br>3° 31.0' W | Q.G.  | 16<br>5       | 4            | Green post; 10.            | Shown from Sep. 01 to Apr.<br>30.   |
| 3056<br>A 3582                 | -Range, front.                                 | 58° 35.9' N<br>3° 30.7' W | F.G.  | 16<br>5       | 4            | Gray post; 10.             |   |
| 3060<br>A 3582.1               | --Rear, 195° from front.                       | 58° 35.9' N<br>3° 30.7' W | F.G.  | 19<br>6       | 4            | Gray mast; 16.             |   |
| 3064<br>A 3584                 | Scrabster Harbor, E. pier, head.               | 58° 36.7' N<br>3° 32.7' W | 2 F.G. (vert.)  | 19<br>6       | 4            | White post; 10.            |   |
| 3066<br>A 3583.5               | --Layover Quay, head.                          | 58° 36.6' N<br>3° 32.7' W | Q.R.  | 19<br>6       | 4            | Metal post; 10.            |   |
| 3068<br>A 3583                 | -Outer pier.                                   | 58° 36.6' N<br>3° 32.5' W | Q.(2)G.<br>period 6s  | 26<br>8       | 4            | Post.                      |   |
| 3072<br>A 3586                 | -W. pier, head.                                | 58° 36.7' N<br>3° 32.7' W | 2 F.R. (vert.)  | 13<br>4       | 4            | Metal post; 10.            | 1 meter apart.  |
| <b>SCOTLAND-ORKNEY ISLANDS</b> |  |                           |   |               |              |                            |   |
| 3074<br>A 8235                 | Foinhaven Oilfield, Storage<br>Tanker 204/04.  | 60° 19.0' N<br>4° 16.4' W | Mo.(U)W.<br>period 15s  |               | 15           | Storage tanker.            | Reserve light range 10M.<br>Horn: Mo.(U) 3 bl. ev. 30s (bl.<br>0.7s, si. 1s, bl. 0.7s, si. 1s,<br>bl. 2.5s, si. 24.1s). |
|                                |  |                           | Mo.(U)R.<br>period 15s  |               | 2            |                            | One light on each corner of<br>platform.  |
|                                | RACON  |                           | X(— • • —)  |               |              |                            | (3 & 10cm).   |
| 3076<br>A 3607.5               | Swona.   | 58° 44.2' N<br>3° 04.2' W | Fl.W.<br>period 8s<br>fl. 0.4s, ec. 7.6s  | 56<br>17      | 9            | White concrete column; 20. | Visible 261°-210°.  |

| (1)<br>No.                     | (2)<br>Name and Location                            | (3)<br>Position           | (4)<br>Characteristic   | (5)<br>Height | (6)<br>Range         | (7)<br>Structure                             | (8)<br>Remarks                      |
|--------------------------------|---|---------------------------|---|---------------|----------------------|--|-------------------------------------|
| <b>SCOTLAND-ORKNEY ISLANDS</b> |   |                           |   |               |                      |  |                                     |
| 3080<br>A 3607                 | -N. head.   | 58° 45.1' N<br>3° 03.0' W | <b>Fl.(3)W.</b><br>period 10s<br>fl. 0.5s, ec. 1s<br>fl. 0.5s, ec. 1s<br>fl. 0.5s, ec. 6.5s                           | 52<br>16      | 10                   | Pillar; 7.                                   |                                     |
| 3084<br>A 3600                 | <b>Tor Ness.</b>                                    | 58° 46.7' N<br>3° 17.7' W | <b>Fl.W.</b><br>period 5s<br>fl. 0.3s, ec. 4.7s   | 69<br>21      | 17                   | White tower; 26.                             |                                     |
| 3088<br>A 3602                 | Cantick Head.                                       | 58° 47.2' N<br>3° 07.8' W | <b>Fl.W.</b><br>period 20s<br>fl. 0.4s, ec. 19.6s   | 115<br>35     | 13                   | White tower.                                 |                                     |
| SCAPA FLOW AND APPROACHES:     |   |                           |   |               |                      |  |                                     |
| 3092<br>A 3604                 | -Ruff Reef, end of reef, off<br>Cantick Head.       | 58° 47.5' N<br>3° 07.8' W | <b>Fl.W.</b><br>period 10s<br>fl. 1s, ec. 9s  | 33<br>10      | 6                    | Black beacon; 33.                            |                                     |
| 3096<br>A 3606                 | -Long Hope, South Ness pier,<br>head.               | 58° 48.1' N<br>3° 12.2' W | <b>Fl.W.R.G.</b><br>period 3s<br>fl. 0.7s, ec. 2.3s   | 19<br>6       | W. 7<br>R. 5<br>G. 5 | White building; 16.                          | G. 082°-242°, W.-252°, R.-<br>082°. |
| 3100<br>A 3610                 | -Hoxa Head.   | 58° 49.3' N<br>3° 02.1' W | <b>Fl.W.R.</b><br>period 3s<br>fl. 0.3s, ec. 2.7s   | 49<br>15      | W. 9<br>R. 6         | White metal framework tower;<br>23.          | W. 026°-163°, R.-201°, W.-<br>215°. |
| 3104<br>A 3610.2               | -Stanger Head.                                      | 58° 50.0' N<br>3° 04.7' W | <b>Fl.R.</b><br>period 5s<br>fl. 0.2s, ec. 4.8s   | 82<br>25      | 8                    | Pillar; 7.                                   |                                     |
| 3108<br>A 3610.4               | -Roan Head.   | 58° 50.7' N<br>3° 03.9' W | <b>Fl.(2)R.</b><br>period 6s<br>fl. 0.5s, ec. 1s<br>fl. 0.5s, ec. 4s  | 39<br>12      | 7                    | White pillar; 6.                             |                                     |
| 3112<br>A 3610.6               | -Nevi Skerry.                                       | 58° 50.7' N<br>3° 02.6' W | <b>Fl.(2)W.</b><br>period 6s<br>fl. 0.5s, ec. 1s<br>fl. 0.5s, ec. 4s  | 23<br>7       | 6                    | ISOLATED DANGER<br>BRB, beacon, topmark; 30. |                                     |
| 3116<br>A 3610.8               | -Calf of Flotta.                                    | 58° 51.3' N<br>3° 03.9' W | <b>Q.R.</b>   | 26<br>8       | 4                    | Pillar.                                      |                                     |
| 3120<br>A 3610.9               | -Flotta Marine Terminal, jetty<br>No 1, T, E. head. | 58° 50.7' N<br>3° 06.8' W | <b>2 F.R.</b> (vert.)   | 33<br>10      | 3                    |  | 3 meters apart.                     |
| 3124<br>A 3610.92              | --T, W. head.                                       | 58° 50.7' N<br>3° 06.9' W | <b>2 F.R.</b> (vert.)   | 33<br>10      | 3                    |  | 2 meters apart.                     |
| 3128<br>A 3610.94              | --E. dolphin.                                       | 58° 50.8' N<br>3° 06.7' W | <b>Q.R.</b>   | 26<br>8       | 3                    |  |                                     |
| 3132<br>A 3610.96              | --W. dolphin.                                       | 58° 50.7' N<br>3° 07.1' W | <b>Q.R.</b>   | 26<br>8       | 3                    |  |                                     |
| 3136<br>A 3611                 | -Single Point Mooring Tower No<br>1.                | 58° 52.2' N<br>3° 07.3' W | <b>Fl.Y.</b><br>period 5s<br>fl. 0.5s, ec. 4.5s   | 39<br>12      | 3                    |  |                                     |
| 3140<br>A 3611.2               | --No 2.   | 58° 52.3' N<br>3° 05.8' W | <b>Fl.(4)Y.</b><br>period 15s<br>fl. 0.5s, ec. 1.5s<br>fl. 0.5s, ec. 1.5s<br>fl. 0.5s, ec. 1.5s<br>fl. 0.5s, ec. 8.5s | 39<br>12      | 3                    |  |                                     |
| 3144<br>A 3612                 | -Gibraltar pier.                                    | 58° 50.3' N<br>3° 07.8' W | <b>2 F.G.</b> (vert.)   | 23<br>7       | 3                    | Metal post.                                  | 2 meters apart.                     |
| 3146<br>A 3612.5               | -Sutherland pier.                                   | 58° 50.2' N<br>3° 07.9' W | <b>Q.G.</b>   | 26<br>8       | 3                    | Mast; 19.                                    |                                     |
| -St. Margaret's Hope:          |   |                           |   |               |                      |  |                                     |
| 3148<br>A 3615                 | --Pier, head.                                       | 58° 49.9' N<br>2° 57.5' W | <b>2 F.G.</b> (vert.)   | 19<br>6       | 2                    | Metal post; 16.                              | 2 meters apart.                     |

| (1)<br>No.                     | (2)<br>Name and Location                              | (3)<br>Position           | (4)<br>Characteristic  | (5)<br>Height | (6)<br>Range | (7)<br>Structure  | (8)<br>Remarks  |
|--------------------------------|---|---------------------------|--|---------------|--------------|---|---|
| <b>SCOTLAND-ORKNEY ISLANDS</b> |   |                           |  |               |              |   |   |
| 3152<br>A 3616                 | --In village Range, front.                            | 58° 49.6' N<br>2° 57.5' W | <b>F.G.</b>  |               | 33<br>10     | 7 Metal mast, orange triangular daymark point up; 13.         |   |
| 3156<br>A 3616.1               | --Rear, 86 meters 174° from front.                    | 58° 49.5' N<br>2° 57.6' W | <b>F.G.</b>  |               | 49<br>15     | 7 Metal mast, orange triangular daymark point up; 13.         |   |
| 3160<br>A 3614                 | --Needle Point.                                       | 58° 50.1' N<br>2° 57.3' W | <b>Fl.G.</b><br>period 3s<br>fl. 0.3s, ec. 2.7s  |               | 19<br>6      | 3   |   |
| 3164<br>A 3626                 | -Rose Ness.   | 58° 52.3' N<br>2° 49.9' W | <b>Fl.W.</b><br>period 6s<br>fl. 0.5s, ec. 5.5s  |               | 79<br>24     | 8 White tower; 23.  |   |
| 3168<br>A 3632                 | -Scapa.   | 58° 57.4' N<br>2° 58.3' W | <b>Fl.G.</b><br>period 3s<br>fl. 0.5s, ec. 2.5s  |               | 19<br>6      | 8 White metal mast; 16.                                       |   |
| 3172<br>A 3635                 | -Barrel of Butter.                                    | 58° 53.4' N<br>3° 07.5' W | <b>Fl.(2)W.</b><br>period 10s<br>fl. 1s, ec. 2s<br>fl. 1s, ec. 6s                            |               | 19<br>6      | 7 Gray metal platform, round masonry tower.                   |   |
| 3176<br>A 3636                 | -Cava, on The Calf.                                   | 58° 53.2' N<br>3° 10.6' W | <b>Fl.W.R.</b><br>period 3s<br>fl. 0.3s, ec. 2.7s  |               | 36<br>11     | W. 10 White round tower; 26.<br>R. 8                          | W. 351°-143°, R.-196°, W.-251°, R.-271°, W.-298°.   |
| 3180<br>A 3640                 | -Houton Range, front.                                 | 58° 55.0' N<br>3° 11.5' W | <b>Fl.G.</b><br>period 3s<br>fl. 1s, ec. 2s  |               | 26<br>8      | White pole, black bands, red triangular daymark point up; 20. | Visible 312°-320°.  |
| 3184<br>A 3640.1               | --Rear, 200 meters 316°02' from front.                | 58° 55.1' N<br>3° 11.6' W | <b>F.G.</b>  |               | 52<br>16     | White pole, black bands, red triangular daymark point up; 16. | Visible 312°-320°.  |
| 3188<br>A 3641                 | -Houton Bay pier.                                     | 58° 55.1' N<br>3° 11.0' W | <b>2 F.R.</b> (vert.)  |               | 16<br>5      | 4 Mast; 13.   | 2 meters apart.   |
| 3192<br>A 3642                 | -RoRo Terminal.                                       | 58° 55.0' N<br>3° 11.0' W | <b>Iso.R.</b><br>period 4s   |               | 23<br>7      | 5 Metal mast; 16.   |   |
|                                | -Hoy Sound:   |                           |  |               |              |   |   |
| 3196<br>A 3644                 | --Graemsay Island Range, front.                       | 58° 56.4' N<br>3° 18.5' W | <b>Iso.W.</b><br>period 3s   |               | 56<br>17     | 12 White tower; 39.   | Visible 070°-255°. When within ½ mile of shore on range line, rear light disappears below foreground. |
| 3200<br>A 3644.1               | ---Rear, NE. point of island 2.2 km. 104° from front. | 58° 56.1' N<br>3° 16.3' W | <b>Oc.W.R.</b><br>period 8s<br>lt. 6s, ec. 2s  |               | 115<br>35    | W. 20 White tower; 108.<br>R. 16                              | R. 097°-112°, W.-163°, R.-178°, W.-332°. Obscured locally on bearing 104°.                            |
| 3204<br>A 3650                 | --Skerry of Ness.                                     | 58° 56.9' N<br>3° 17.8' W | <b>Fl.W.G.</b><br>period 4s<br>fl. 0.3s, ec. 3.7s  |               | 23<br>7      | W. 7 White concrete column, platform; 33.<br>G. 5             | W. 165°-090°, G.-125°.  |
|                                | -Stromness:   |                           |  |               |              |   |   |
| 3208<br>A 3662                 | --N. pier, head.                                      | 58° 57.8' N<br>3° 17.6' W | <b>Fl.R.</b><br>period 3s<br>fl. 0.5s, ec. 2.5s  |               | 26<br>8      | 5 Metal mast; 16.   |   |
| 3212<br>A 3656                 | --In the town Range, front.                           | 58° 57.6' N<br>3° 18.0' W | <b>F.R.</b>  |               | 95<br>29     | 11 Metal post, white tower; 19.                               | Visible 307°-327°. Shown 24 hours.  |
| 3216<br>A 3656.1               | ---Rear, 55 meters 317° from front.                   | 58° 57.7' N<br>3° 18.1' W | <b>F.R.</b>  |               | 128<br>39    | 11 Metal post, white tower; 13.                               | Visible 307°-327°. Shown 24 hours.  |
| 3220<br>A 3654                 | --Pier extension, SE., head.                          | 58° 57.6' N<br>3° 17.8' W | <b>Iso.R.</b><br>period 6s   |               | 49<br>15     | 5 Metal framework tower; 39.                                  |   |
| 3224<br>A 3700                 | <b>Brough head.</b>                                   | 59° 08.2' N<br>3° 20.3' W | <b>Fl.(3)W.</b><br>period 25s<br>fl. 0.1s, ec. 4s<br>fl. 0.1s, ec. 4s<br>fl. 0.1s, ec. 16.7s |               | 171<br>52    | 18 White tower, dwelling; 36.                                 | <b>AIS</b> (MMSI No 992351101).   |

| (1)<br>No.                     | (2)<br>Name and Location        | (3)<br>Position           | (4)<br>Characteristic  | (5)<br>Height | (6)<br>Range            | (7)<br>Structure                       | (8)<br>Remarks   |
|--------------------------------|---------------------------------|---------------------------|--|---------------|-------------------------|--|--|
| <b>SCOTLAND-ORKNEY ISLANDS</b> |                                 |                           |  |               |                         |  |  |
| 3228<br>A 3676                 | Copinsay.                       | 58° 53.8' N<br>2° 40.3' W | <b>Fl.(5)W.</b><br>period 30s<br>fl. 0.7s, ec. 2.5s<br>fl. 0.7s, ec. 2.5s<br>fl. 0.7s, ec. 2.5s<br>fl. 0.7s, ec. 2.5s<br>fl. 0.7s, ec. 16.5s | 259<br>79     | 14                      | White tower; 52.                       |  |
| 3232<br>A 3680                 | <b>Auskerry.</b>                | 59° 01.5' N<br>2° 34.3' W | <b>Fl.W.</b><br>period 20s<br>fl. 0.4s, ec. 19.6s  | 112<br>34     | 20                      | White tower; 112.                      |  |
| 3236<br>A 3684                 | Helliar Holm.                   | 59° 01.1' N<br>2° 54.1' W | <b>Fl.W.R.G.</b><br>period 10s<br>fl. 0.5s, ec. 9.5s   | 59<br>18      | W. 14<br>R. 11<br>G. 11 | White tower; 43.                       | G. 256°-276°, W.-292°, R.-098°, W.-116°, G.-154°.        |
| 3240<br>A 3685                 | Balfour, pier.                  | 59° 01.9' N<br>2° 54.4' W | <b>Fl.(2)W.R.G.</b><br>period 5s<br>fl. 0.5s, ec. 1s<br>fl. 0.5s, ec. 3s   | 16<br>5       | W. 3<br>R. 2<br>G. 2    | Gray building; 10.                     | G. 270°-010°, W.-020°, R.-090°.                          |
| KIRKWALL:                      |                                 |                           |  |               |                         |  |  |
| 3244<br>A 3688                 | -Pier, head.                    | 58° 59.3' N<br>2° 57.6' W | <b>Iso.W.R.G.</b><br>period 5s   | 42<br>13      | W. 15<br>R. 13<br>G. 13 | White concrete tower, orange band.     | G. 153°-183°, W.-192°, R.-210°.                          |
| 3246<br>A 3688.5               | --E., head.                     | 58° 59.3' N<br>2° 57.5' W | <b>2 F.G.</b> (vert.)  | 20<br>6       | 3                       | Metal mast.                            | 2 meters apart.  |
| 3248<br>A 3693                 | -Harbor entrance, N.            | 58° 59.2' N<br>2° 57.5' W | <b>2 F.R.</b> (vert.)  | 20<br>6       | 1                       | Metal post.                            | 2 meters apart.  |
| 3252<br>A 3694                 | -W. pier, head.                 | 58° 59.2' N<br>2° 57.5' W | <b>2 F.G.</b> (vert.)  | 20<br>6       | 1                       | Metal post.                            | 2 meters apart.  |
| 3254<br>A 3729                 | Bay of Backaland.               | 59° 09.4' N<br>2° 44.9' W | <b>Fl.R.</b><br>period 3s<br>fl. 0.5s, ec. 2.5s  | 16<br>5       | 4                       | Metal post; 10.                        | Visible 192°-250°.                                       |
| 3264<br>A 3708                 | -Whitehall Pier, N., head.      | 59° 08.6' N<br>2° 35.8' W | <b>2 F.G.</b> (vert.)  | 27<br>8       | 4                       | Metal mast; 16.                        | 2 meters apart.  |
| 3268<br>A 3706                 | Papa Stronsay, NE., head.       | 59° 09.3' N<br>2° 34.9' W | <b>Fl.(4)W.</b><br>period 20s<br>fl. 0.4s, ec. 1.6s<br>fl. 0.4s, ec. 1.6s<br>fl. 0.4s, ec. 1.6s<br>fl. 0.4s, ec. 13.6s                       | 27<br>8       | 9                       | White metal framework tower; 16.       |  |
| 3270<br>A 3715                 | Loth, RoRo Terminal, W. head.   | 59° 11.5' N<br>2° 41.8' W | <b>2 F.G.</b> (vert.)  | 26<br>8       | 4                       | Metal mast; 20.                        | 2 meters apart.  |
| 3272<br>A 3716                 | Kettletoft, pier, head.         | 59° 13.8' N<br>2° 35.8' W | <b>Fl.W.R.G.</b><br>period 3s<br>fl. 0.5s, ec. 2.5s  | 23<br>7       | W. 7<br>R. 5<br>G. 5    | White tower; 19.                       | W. 351°-011°, R.-180°, G.-351°.                          |
| 3276<br>A 3718                 | <b>Start Point.</b>             | 59° 16.6' N<br>2° 22.6' W | <b>Fl.(2)W.</b><br>period 20s<br>fl. 0.2s, ec. 3.8s<br>fl. 0.2s, ec. 15.8s   | 79<br>24      | 18                      | White tower, black stripes; 75.        |  |
| 3280<br>A 3722                 | <b>North Ronaldsay.</b>         | 59° 23.4' N<br>2° 22.9' W | <b>Fl.W.</b><br>period 10s<br>fl. 0.3s, ec. 9.7s   | 141<br>43     | 24                      | Red brick tower, two white bands; 138. |  |
| RACON                          |                                 |                           |  |               | 14                      |  | (3 & 10cm).  |
| 3284<br>A 3724                 | -Nouster, pier, head.           | 59° 21.4' N<br>2° 26.3' W | <b>Q.R.</b>  | 16<br>5       |                         | Post.                                  |  |
| 3288<br>A 3728                 | Calf Sound.                     | 59° 14.2' N<br>2° 45.8' W | <b>Fl.(3)W.R.G.</b><br>period 10s<br>fl. 0.5s, ec. 1.5s<br>fl. 0.5s, ec. 1.5s<br>fl. 0.5s, ec. 5.5s  | 20<br>6       | W. 8<br>R. 6<br>G. 6    | White tower; 30.                       | R. 205°-24'-214°54', W.-222°18', G.-300°48', W.-305°42'. |
| 3290<br>A 3734                 | Rapness, RoRo Terminal, E. end. | 59° 14.9' N<br>2° 51.4' W | <b>2 F.R.</b> (vert.)  | 26<br>8       | 4                       | Metal mast; 20.                        | 2 meters apart.  |

| (1)<br>No.                       | (2)<br>Name and Location                    | (3)<br>Position           | (4)<br>Characteristic  | (5)<br>Height | (6)<br>Range          | (7)<br>Structure                    | (8)<br>Remarks   |
|----------------------------------|---|---------------------------|--|---------------|-----------------------|-------------------------------------|--|
| <b>SCOTLAND-ORKNEY ISLANDS</b>   |   |                           |  |               |                       |                                     |  |
| 3292<br>A 3736                   | Noup Head.                                  | 59° 19.9' N<br>3° 04.2' W | <b>Fl.W.</b><br>period 30s<br>fl. 0.2s, ec. 29.8s  | 259<br>79     | 20                    | White tower; 79.                    | Visible 335°-282°. Partially obscured 240°-275°.   |
| 3296<br>A 3737.2                 | Pierowall, E. pier, head.                   | 59° 19.3' N<br>2° 58.5' W | <b>Fl.W.R.G.</b><br>period 3s<br>fl. 0.5s, ec. 2.5s  | 23<br>7       | W. 11<br>R. 7<br>G. 7 | Metal mast; 19.                     | G. 254°-276°, W.-291°, R.-308°, G.-215°.   |
| 3300<br>A 3737.4                 | -W. pier, head.                             | 59° 19.4' N<br>2° 58.5' W | <b>2 F.R.</b> (vert.)  | 19<br>6       | 3                     | Metal mast; 16.                     | 2 meters apart.  |
| 3304<br>A 3738                   | Moclett Bay, pier, head.                    | 59° 19.6' N<br>2° 53.5' W | <b>Fl.W.R.G.</b><br>period 5s<br>fl. 1s, ec. 4s  | 23<br>7       | W. 5<br>R. 3<br>G. 3  | Gray building; 16.                  | G. 306°-341°, W.-040°, R.-074°.  |
| 3308<br>A 3740                   | Egilsay Pier, S. head.                      | 59° 09.3' N<br>2° 56.6' W | <b>Fl.G.</b><br>period 3s<br>fl. 0.3s, ec. 2.7s  | 13<br>4       | 4                     | White structure, concrete base; 10. |  |
| FAIR ISLE:                       |   |                           |  |               |                       |                                     |  |
| 3312<br>A 3750                   | -Skadan.                                    | 59° 30.8' N<br>1° 39.2' W | <b>Fl.(4)W.</b><br>period 30s<br>fl. 0.2s, ec. 3.6s<br>fl. 0.2s, ec. 3.6s<br>fl. 0.2s, ec. 3.6s<br>fl. 0.2s, ec. 18.4s | 105<br>32     | 22                    | White tower; 85.                    | Visible 260°-146°. Obscured close inshore 260°-282°.   |
| 3314<br>A 3753                   | -N. Haven.                                  | 59° 32.2' N<br>1° 36.4' W | <b>Oc.W.R.G.</b><br>period 8s<br>lt. 6s, ec. 2s  | 33<br>10      | 6                     | Metal column, concrete base; 10.    | G. 203°36'-208°06', W.-211°06', R.-220°36'.  |
| 3316<br>A 3756                   | -Skroo.                                     | 59° 33.1' N<br>1° 36.6' W | <b>Fl.(2)W.</b><br>period 30s<br>fl. 0.6s, ec. 2s<br>fl. 0.6s, ec. 26.8s   | 262<br>80     | 22                    | White tower; 46.                    | Visible 086°42'-358°.  |
| <b>SCOTLAND-SHETLAND ISLANDS</b> |   |                           |  |               |                       |                                     |  |
| 3320<br>A 3766                   | Sumburgh Head.                              | 59° 51.2' N<br>1° 16.5' W | <b>Fl.(3)W.</b><br>period 30s<br>fl. 0.4s, ec. 2.1s<br>fl. 0.4s, ec. 2.1s<br>fl. 0.4s, ec. 24.6s                       | 300<br>91     | 23                    | White tower; 56.                    | V.Q.R. (occasional) on masts about 0.75 mile N. and 4.5 miles NW.<br><b>AIS</b> (MMSI No 992320181).<br><b>DGPS Station.</b> |
| 3322<br>A 3767                   | Pool of Virkie Marina, E. breakwater, head. | 59° 53.1' N<br>1° 17.0' W | <b>2 F.G.</b> (vert.)  | 20<br>6       | 5                     | Metal pole; 7.                      | 2 meters apart.  |
| 3324<br>A 3772                   | Mousa, Perie Bard Islet.                    | 59° 59.8' N<br>1° 09.5' W | <b>Fl.W.</b><br>period 3s<br>fl. 0.3s, ec. 2.7s  | 65<br>20      | 10                    | White metal framework tower; 20.    |  |
| 3326<br>A 3774                   | -Aithsvoe.                                  | 60° 02.3' N<br>1° 12.9' W | <b>Fl.R.</b><br>period 3s  | 10<br>3       | 2                     | White metal post; 7.                | Visible 305°-339°.   |
| 3340<br>A 3776                   | Kirkabister Ness.                           | 60° 07.2' N<br>1° 07.3' W | <b>Fl.(2)W.</b><br>period 10s<br>fl. 0.5s, ec. 2s<br>fl. 0.5s, ec. 7s  | 59<br>18      | 10                    | White building; 52.                 |  |
| 3342<br>A 3776.5                 | Bressay, Cro of Ham.                        | 60° 08.3' N<br>1° 07.5' W | <b>Fl.W.</b><br>period 3s<br>fl. 0.3s, ec. 2.7s  | 39<br>12      | 3                     | White metal post; 3.                |  |
| LERWICK:                         |   |                           |  |               |                       |                                     |  |
| 3344<br>A 3778                   | -Twageos Point.                             | 60° 08.9' N<br>1° 08.0' W | <b>L.Fl.W.</b><br>period 6s<br>fl. 2s, ec. 4s  | 26<br>8       | 6                     | White beacon.                       |  |
| 3348<br>A 3779                   | -Maryfield Ferry terminal, head.            | 60° 09.4' N<br>1° 07.5' W | <b>Oc.W.R.G.</b><br>period 6s<br>lt. 4s, ec. 2s  | 23<br>7       | 5                     |                                     | W. 008°-013°, R.-111°, G.-008°.  |

| (1)<br>No.                       | (2)<br>Name and Location                | (3)<br>Position           | (4)<br>Characteristic   | (5)<br>Height | (6)<br>Range            | (7)<br>Structure                                   | (8)<br>Remarks  |
|----------------------------------|---|---------------------------|---|---------------|-------------------------|--|---|
| <b>SCOTLAND-SHETLAND ISLANDS</b> |   |                           |   |               |                         |  |   |
| 3352<br>A 3780                   | -Breakwater, N. head.                   | 60° 09.3' N<br>1° 08.3' W | <b>2 F.R.</b> (vert.)   | 16<br>5       | 4                       | Column.  |   |
| 3356<br>A 3782                   | -Victoria pier, elbow.                  | 60° 09.3' N<br>1° 08.3' W | <b>2 F.G.</b> (vert.)   | 16<br>5       | 4                       | Column; 16.  |   |
| 3360<br>A 3781                   | --Head.                                 | 60° 09.3' N<br>1° 08.4' W | <b>Fl.R.</b><br>period 3s<br>fl. 0.3s, ec. 2.7s   | 16<br>5       | 1                       |  |   |
| 3364<br>A 3783                   | -N. jetty.                              | 60° 09.4' N<br>1° 08.4' W | <b>Q.R.</b>   | 16<br>5       | 1                       |  |   |
| 3368<br>A 3783.4                 | -Oil jetty head, SW. corner.            | 60° 09.5' N<br>1° 08.5' W | <b>Fl.W.</b><br>period 3s<br>fl. 0.3s, ec. 2.7s   | 16<br>5       |                         | Post; 7.   |   |
| 3372<br>A 3784                   | -North Ness.                            | 60° 09.6' N<br>1° 08.7' W | <b>Iso.W.G.</b><br>period 4s  | 13<br>4       | 5                       | Column; 10.  | W. 024°-158°, G.-216°, W.-301°.   |
| 3376<br>A 3786                   | -Loofa Baa, N. of North Ness.           | 60° 09.8' N<br>1° 08.7' W | <b>Q.(6)+L.Fl.W.</b><br>period 15s  | 13<br>4       | 5                       | S. CARDINAL<br>YB, beacon, topmark; 20.            |   |
| 3377<br>A 3787                   | -Shearers jetty.                        | 60° 09.6' N<br>1° 09.1' W | <b>2 F.R.</b> (vert.)   | 13<br>4       | 1                       |  |   |
| 3378<br>A 3787.1                 | -Holmsgarth jetty, head.                | 60° 09.7' N<br>1° 09.1' W | <b>Q.G.</b>   | 13<br>4       | 5                       | White metal post; 10.                              |   |
| 3380<br>A 3787.2                 | -Holmsgarth Quay, Ro-Ro terminal, head. | 60° 09.8' N<br>1° 09.3' W | <b>Fl.R.</b><br>period 3s<br>fl. 0.3s, ec. 2.7s   | 30<br>9       | 2                       | Dolphin.   |   |
| 3384<br>A 3787.4                 | -Shell jetty, head.                     | 60° 10.0' N<br>1° 09.4' W | <b>Q.(2)R.</b><br>period 8s   | 19<br>6       | 2                       |  |   |
| 3388<br>A 3787.7                 | -North Harbor, pier, head.              | 60° 10.3' N<br>1° 09.3' W | <b>Fl.R.</b><br>period 3s<br>fl. 0.3s, ec. 2.7s   | 36<br>11      | 2                       |  |   |
|                                  |   |                           | <b>F.R.</b>   | 36<br>11      |                         |  |   |
| 3392<br>A 3788                   | -N. entrance.                           | 60° 10.5' N<br>1° 09.4' W | <b>Dir.W.R.G.</b><br>period 6s<br>fl. 5s, ec. 1s  | 89<br>27      | 8                       | Yellow triangular daymark point up, orange stripe. | Oc.R. 211°-214°, Oc.W.-216°, Oc.G.-221°.  |
| 3394<br>A 3787.6                 | -Gremista Marina, S. breakwater, head.  | 60° 10.2' N<br>1° 09.5' W | <b>Iso.R.</b><br>period 4s  | 10<br>3       | 2                       | White post; 7.                                     |   |
| 3396<br>A 3790                   | -Greenhead.                             | 60° 10.9' N<br>1° 09.0' W | <b>Q.(4)R.</b><br>period 10s  | 13<br>4       | 3                       |  |   |
| 3402<br>A 3787.8                 | -Heogan, new quay, head.                | 60° 10.3' N<br>1° 08.5' W | <b>Fl.G.</b><br>period 4s   | 20<br>6       | 3                       | White metal post; 10.                              |   |
| 3403<br>A 3793.5                 | -Skibby Bass.                           | 60° 11.1' N<br>1° 08.8' W | <b>Fl.(2)R.</b><br>period 5s<br>fl. 0.5s, ec. 0.5s<br>fl. 0.5s, ec. 3.5s                            |               | 3                       |  |   |
| 3404<br>A 3794                   | <b>Rova Head</b> , E. point.            | 60° 11.4' N<br>1° 08.5' W | <b>Fl.(3)W.R.G.</b><br>period 18s<br>fl. 1.5s, ec. 2.5s<br>fl. 1.5s, ec. 2.5s<br>fl. 1.5s, ec. 8.5s | 39<br>12      | W. 12<br>R. 9<br>G. 9   | White metal framework tower; 23.                   | R. 090°-182°, W.-191°, G.-213°, R.-241°, W.-261°30', G.-009°, R.-040°. Synchronized with upper directional light. |
|                                  |   |                           | <b>Fl.(3)W.R.G.</b><br>period 18s<br>fl. 1.5s, ec. 2.5s<br>fl. 1.5s, ec. 2.5s<br>fl. 1.5s, ec. 8.5s | 46<br>14      | W. 16<br>R. 13<br>G. 13 |  | R. 176°30'-182°, W.-191°, G.-196°30'.   |
| 3405<br>A 3795                   | Dales Voe.                              | 60° 11.8' N<br>1° 11.2' W | <b>Fl.(2)W.R.G.</b><br>period 8s<br>fl. 0.4s, ec. 1.4s<br>fl. 0.4s, ec. 5.8s                        | 16<br>5       | W. 4<br>R. 3<br>G. 3    | White metal post; 7.                               | G. 220°-227°, W.-233°, R.-240°.   |

| (1)<br>No.                       | (2)<br>Name and Location                          | (3)<br>Position           | (4)<br>Characteristic   | (5)<br>Height | (6)<br>Range                     | (7)<br>Structure                    | (8)<br>Remarks   |
|----------------------------------|---|---------------------------|---|---------------|----------------------------------|-------------------------------------|--|
| <b>SCOTLAND-SHETLAND ISLANDS</b> |   |                           |   |               |                                  |                                     |  |
| 3406<br>A 3795.5                 | -Quay.  | 60° 11.6' N<br>1° 10.6' W | <b>2 F.R.</b> (vert.)   | 29<br>9       | 3                                | Metal column; 98.                   | 2 meters apart.  |
| 3406.5<br>A 3795.6               | Laxfirth, pier, head.                             | 60° 12.7' N<br>1° 12.1' W | <b>2 F.G.</b> (vert.)   | 13<br>4       | 2                                | Pole.                               | 1 meter apart.   |
| 3407<br>A 3795.7                 | Hoo Stack.  | 60° 15.0' N<br>1° 05.4' W | <b>Fl.(4)W.R.G.</b><br>period 12s<br>fl. 0.3s, ec. 1.7s<br>fl. 0.3s, ec. 1.7s<br>fl. 0.3s, ec. 1.7s<br>fl. 0.3s, ec. 5.7s | 131<br>40     | W.<br>R.<br>G.<br>5<br>5         | White metal framework tower;<br>26. | R. 169°-180°, W.-184°, G.-<br>193°, W.-169°.                               |
|                                  |   |                           | <b>Fl.(4)W.R.G.</b><br>period 12s   | 108<br>33     | W.<br>R.<br>G.<br>9<br>6<br>6    |                                     | R. 177°-180°, W.-184°, G.-<br>187°.<br>Synchronized.                       |
| 3408<br>A 3796                   | Moul of Eswick, 9.26 meters<br>from N. extremity. | 60° 15.7' N<br>1° 05.9' W | <b>Fl.W.R.G.</b><br>period 3s<br>fl. 0.3s, ec. 2.7s   | 164<br>50     | W.<br>R.<br>G.<br>9<br>6<br>6    | White tower; 23.                    | R. 028°-200°, W.-207°, G.-<br>018°, W.-028°.                               |
| WHALSAY:                         |   |                           |   |               |                                  |                                     |  |
| 3412<br>A 3802                   | -Symbister Ness, 549 meters<br>from SW. point.    | 60° 20.4' N<br>1° 02.3' W | <b>Fl.(2)W.G.</b><br>period 12s<br>fl. 0.5s, ec. 1.5s<br>fl. 0.5s, ec. 9.5s   | 36<br>11      | W.<br>G.<br>8<br>6               | White tower; 23.                    | W. 354°-203°, G.-246°.   |
| 3413<br>A 3803.8                 | Marrister.  | 60° 21.4' N<br>1° 01.4' W | <b>Fl.G.</b><br>period 6s<br>fl. 0.3s, ec. 5.7s   | 13<br>4       | 4                                | Green mast, platform; 13.           |  |
| 3416<br>A 3804                   | -Suther Ness.                                     | 60° 22.1' N<br>1° 00.2' W | <b>Fl.W.R.G.</b><br>period 3s<br>fl. 0.3s, ec. 2.7s   | 33<br>10      | W.<br>R.<br>G.<br>10<br>8<br>8   | White metal framework tower;<br>23. | W. 012°-038°, R.-135°, W.-<br>143°, G.-158°, R.-173°,<br>W.-206°, G.-240°. |
| 3417<br>A 3804.2                 | -Wether Holm.                                     | 60° 22.3' N<br>1° 01.3' W | <b>Fl.W.</b><br>period 5s   | 20<br>6       | 9                                | White metal framework tower;<br>16. |  |
| 3418<br>A 3805                   | -Laxo Voe, Ferry Terminal.                        | 60° 21.1' N<br>1° 10.3' W | <b>2 F.G.</b> (vert.)   | 13<br>4       | 2                                | Gray metal mast; 16.                | 1 meter apart.   |
| 3420<br>A 3807                   | <b>Out Skerries.</b>                              | 60° 25.5' N<br>0° 43.7' W | <b>Fl.W.</b><br>period 20s<br>fl. 0.2s, ec. 19.8s   | 144<br>44     | 20                               | White tower; 98.                    |  |
| 3424<br>A 3810                   | Muckle Skerry.                                    | 60° 26.4' N<br>0° 51.8' W | <b>Fl.(2)W.R.G.</b><br>period 10s<br>fl. 0.5s, ec. 1s<br>fl. 0.5s, ec. 8s   | 49<br>15      | W.<br>R.<br>G.<br>7<br>5<br>5    | White metal framework tower;<br>16. | W. 046°-192°, R.-272°, G.-<br>348°, W.-353°, R.-046°.                      |
| 3426<br>A 3811                   | -Lunna Holm, S. entrance.                         | 60° 27.3' N<br>1° 02.5' W | <b>Fl.(3)W.R.G.</b><br>period 15s   | 62<br>19      | W.<br>R.<br>G.<br>10<br>7<br>7   | White round tower; 26.              | R. 043°06'-090°, W.-094°, G.-<br>209°, W.-275°, R.-<br>018°42'.            |
| 3428<br>A 3812                   | <b>-Firths Voe.</b>                               | 60° 27.3' N<br>1° 10.8' W | <b>Oc.W.R.G.</b><br>period 8s<br>lt. 6s, ec. 2s   | 29<br>9       | W.<br>R.<br>G.<br>15<br>10<br>10 | White tower; 26.                    | W. 189°-194°, G.-257°, W.-<br>261°, R.-339°, W.-066°.                      |
| 3429<br>A 3812.5                 | --Linga Island.                                   | 60° 26.8' N<br>1° 09.1' W | <b>Q.(4)W.R.G.</b><br>period 8s   | 33<br>10      | W.<br>R.<br>G.<br>7<br>4<br>4    | Concrete column; 7.                 | R. 052°-146°, G.-154°, W.-<br>312°.  |
|                                  |   |                           | <b>Q.(4)W.R.G.</b><br>period 8s   | 33<br>10      | 9                                |                                     | R. 145°-148°, W.-152°, G.-<br>155°.<br>Synchronized.                       |
| 3429.5<br>A 3812.8               | Rumble Rock.                                      | 60° 28.2' N<br>1° 07.2' W | <b>Fl.W.</b><br>period 10s<br>fl. 0.5s, ec. 9.5s  | 26<br>8       | 4                                | Concrete pillar, square platform.   |  |
| RACON                            |   |                           | <b>O(---)</b>   |               | 8                                |                                     | (3 & 10cm).  |
| 3430<br>A 3813.1                 | -Ulst Ferry Terminal.                             | 60° 29.8' N<br>1° 09.5' W | <b>Oc.W.R.G.</b><br>period 6s   | 33<br>10      | W.<br>R.<br>G.<br>4<br>3<br>3    | Metal post.                         | G. 012°-026°15', W.-041°15',<br>R.-052°30'.                                |
| 3431<br>A 3813.5                 | -Toft, Ferry Terminal.                            | 60° 28.0' N<br>1° 12.4' W | <b>2 F.R.</b> (vert.)   | 23<br>7       | 1                                | Metal post; 16.                     | Visible 085°-330°.<br>2 meters apart.                                      |



| (1)<br>No.                       | (2)<br>Name and Location                            | (3)<br>Position           | (4)<br>Characteristic   | (5)<br>Height | (6)<br>Range          | (7)<br>Structure                                 | (8)<br>Remarks  |
|----------------------------------|---|---------------------------|---|---------------|-----------------------|--|---|
| <b>SCOTLAND-SHETLAND ISLANDS</b> |   |                           |   |               |                       |  |   |
| 3432<br>A 3814                   | -Ness of Sound, W. side.                            | 60° 31.4' N<br>1° 11.2' W | <b>Fl.(3)W.R.G.</b><br>period 12s<br>fl. 0.3s, ec. 1s<br>fl. 0.3s, ec. 1s<br>fl. 0.3s, ec. 9.1s                       | 59<br>18      | W. 9<br>R. 6<br>G. 6  | White tower; 26.                                 | G. 306°18'-345°, W.-350°, R.-160°, W.-165°, G.-217°.            |
| 3436<br>A 3815                   | -Brother Island.                                    | 60° 30.9' N<br>1° 14.1' W | <b>Dir.W.R.G.</b><br>period 8s  | 52<br>16      | W. 10<br>R. 7<br>G. 7 | Concrete column; 7.                              | Q.(4)G. 323°30'-328°,<br>Q.(4)W.-330°, Q.(4)R.-333°30'.         |
| 3437<br>A 3815.3                 | --Mio Ness.   | 60° 29.7' N<br>1° 13.7' W | <b>Q.(2)W.R.</b><br>period 10s  | 39<br>12      | W. 7<br>R. 4          | White round tower; 16.                           | W. 282°-238°, R.-282°.  |
| 3438<br>A 3815.6                 | --Tinga Skerry.                                     | 60° 30.5' N<br>1° 14.8' W | <b>Q.(2)G.</b><br>period 10s  | 29<br>9       | 5                     | White round tower; 16.                           |   |
| 3440<br>A 3816                   | -Northern entrance, Bagi Stack.                     | 60° 43.5' N<br>1° 07.5' W | <b>Fl.(4)W.</b><br>period 20s<br>fl. 0.3s, ec. 1s<br>fl. 0.3s, ec. 1s<br>fl. 0.3s, ec. 1s<br>fl. 0.3s, ec. 15.8s      | 148<br>45     | 10                    | White metal framework tower; 23.                 |   |
| 3444<br>A 3817                   | --Gruney Island.                                    | 60° 39.2' N<br>1° 18.2' W | <b>Fl.W.R.</b><br>period 5s<br>fl. 0.5s, ec. 4.5s   | 174<br>53     | W. 8<br>R. 6          | White tower; 23.                                 | R. 064°-180°, W.-012°.  |
|                                  | --RACON   |                           | <b>T(-)</b>   |               | 14                    |  | (3 & 10cm).   |
| 3448<br>A 3817.5                 | --Point of Fethaland.                               | 60° 38.0' N<br>1° 18.7' W | <b>Fl.(3)W.R.</b><br>period 15s   | 213<br>65     | W. 24<br>R. 20        | White tower; 23.                                 | R. 080°-103°, W.-160°, R.-206°, W.-340°.                        |
| 3452<br>A 3818                   | --Muckle Holm.                                      | 60° 34.8' N<br>1° 16.0' W | <b>Fl.(4)W.</b><br>period 10s<br>fl. 0.3s, ec. 1.7s<br>fl. 0.3s, ec. 1.7s<br>fl. 0.3s, ec. 1.7s<br>fl. 0.3s, ec. 3.7s | 105<br>32     | 10                    | White metal framework tower; 23.                 |   |
| 3456<br>A 3819                   | --Little Holm.                                      | 60° 33.4' N<br>1° 15.9' W | <b>Iso.W.</b><br>period 4s  | 39<br>12      | 6                     | White metal framework tower; 23.                 |   |
| 3460<br>A 3820                   | --Outer Skerry.                                     | 60° 33.0' N<br>1° 18.3' W | <b>Fl.W.</b><br>period 6s<br>fl. 1s, ec. 5s   | 39<br>12      | 8                     | White column, black bands.                       |   |
| 3464<br>A 3820.5                 | --Quey Firth.                                       | 60° 31.4' N<br>1° 19.6' W | <b>Oc.W.R.G.</b><br>period 6s<br>lt. 4s, ec. 2s   | 72<br>22      | W. 12<br>R. 8<br>G. 8 | White tower; 16.                                 | W. 154°-290°, G.-327°, W.-334°, R.-085°.                        |
| 3468<br>A 3821                   | --Lamba S., head.                                   | 60° 30.7' N<br>1° 17.8' W | <b>Fl.W.R.G.</b><br>period 3s<br>fl. 0.3s, ec. 2.7s   | 98<br>30      | W. 8<br>R. 5<br>G. 5  | White tower; 26.                                 | G. 234°30'-288°, W.-293°, R.-327°, W.-044°, R.-140°, W.-197°.   |
|                                  |   |                           | <b>Dir.W.R.G.</b><br>period 3s  | 79<br>24      | W. 10<br>R. 7<br>G. 7 | Concrete column; 7.                              | Fl.G. 285°30'-288°, Fl.W.-293°, Fl.R.-295°30'.<br>Synchronized. |
| 3472<br>A 3822.5                 | -Little Roe.  | 60° 30.0' N<br>1° 16.3' W | <b>Fl.(3)W.R.</b><br>period 10s   | 52<br>16      | W. 5<br>R. 4          | White fiberglass structure, orange band; 16.     | R. 036°-095°30', W.-036°.                                       |
| 3476<br>A 3822                   | -Gluss Isle Range, front.                           | 60° 29.8' N<br>1° 19.4' W | <b>F.W.</b>   | 128<br>39     | 19                    | Gray metal tower, square daymark; 105.           | Reserve light range 9M. Shown 24 hours.                         |
| 3480<br>A 3822.1                 | --Rear, 0.75 mile 194°44' from front.               | 60° 29.0' N<br>1° 19.8' W | <b>F.W.</b>   | 226<br>69     | 19                    | Gray metal tower, square daymark; 72.            | Reserve light range 9M. Shown 24 hours.                         |
| 3484<br>A 3822.3                 | Fugla Ness, common front.                           | 60° 27.5' N<br>1° 19.4' W | <b>Iso.W.</b><br>period 4s  | 89<br>27      | 14                    | Gray tower, orange daymark; 33.                  |   |
| 3488<br>A 3822.29                | --Rear, about 400 meters 212°17' from common front. | 60° 27.3' N<br>1° 19.7' W | <b>Iso.W.</b><br>period 4s  | 148<br>45     | 14                    | Gray metal tower, black trapezoidal daymark; 52. | Synchronized with front.  |
| 3492<br>A 3822.31                | --Rear, about 410 meters 202°55' from common front. | 60° 27.3' N<br>1° 19.6' W | <b>Iso.W.</b><br>period 4s  | 148<br>45     | 14                    | Gray metal tower, black trapezoidal daymark; 39. |   |

| (1)<br>No.                       | (2)<br>Name and Location                            | (3)<br>Position           | (4)<br>Characteristic  | (5)<br>Height | (6)<br>Range          | (7)<br>Structure                                    | (8)<br>Remarks   |
|----------------------------------|---|---------------------------|--|---------------|-----------------------|---|--|
| <b>SCOTLAND-SHETLAND ISLANDS</b> |   |                           |  |               |                       |   |  |
| 3496<br>A 3823.1                 | <b>Sella Ness.</b>                                  | 60° 26.8' N<br>1° 16.7' W | <b>Dir.W.R.G.</b><br>period 10s<br>fl. 7.5s, ec. 2.5s                      | 62<br>19      | W. 16<br>R. 3<br>G. 3 | Gray metal framework tower,<br>building; 3.         | Oc.G. 123°30'-130°30',<br>Al.W.G.-132°30' (W.<br>phase increasing with<br>bearing), Oc.W.-134°30',<br>Al.W.R.-136°30' (R.<br>phase increasing with<br>bearing), Oc.R.-143°30'.<br>Range 2/1M by day. |
| 3497<br>A 3823.3                 | -Tug jetty, E. side, head.                          | 60° 26.8' N<br>1° 16.2' W | <b>2 F.G.</b> (vert.)  | 26<br>8       | 3                     | Column.   | 2 meters apart.  |
| 3498<br>A 3823.32                | -Finger pier, head.                                 | 60° 26.8' N<br>1° 16.2' W | <b>Iso.G.</b><br>period 4s   | 13<br>4       | 3                     | Metal column.                                       |  |
| 3499<br>A 3823.34                | -Garth Pier, N. arm, head.                          | 60° 26.7' N<br>1° 16.2' W | <b>Fl.(2)G.</b><br>period 5s<br>fl. 0.4s, ec. 1s<br>fl. 0.4s, ec. 3.2s     | 13<br>4       | 3                     | Metal column.                                       |  |
| 3501<br>A 3823.64                | -Calback Ness, jetty.                               | 60° 27.4' N<br>1° 16.7' W | <b>2 F.R.</b> (vert.)  | 30<br>9       | 3                     | Metal mast; 16.                                     | 2 meters apart.  |
| 3502<br>A 3823.7                 | -No 1 jetty, E.                                     | 60° 27.3' N<br>1° 17.0' W | <b>2 F.R.</b> (vert.)  | 23<br>7       | 3                     | Dolphin.  | 2 meters apart.  |
| 3503<br>A 3823.8                 | -No 4 jetty, W.                                     | 60° 27.9' N<br>1° 18.3' W | <b>2 F.R.</b> (vert.)  | 23<br>7       | 3                     | Dolphin.  | 2 meters apart.  |
| 3504<br>A 3822.6                 | -Calback Ness, N. point Skaw<br>Taing Range, front. | 60° 29.1' N<br>1° 16.8' W | <b>Oc.W.R.G.</b><br>period 5s<br>lt. 3s, ec. 2s                            | 69<br>21      | W. 8<br>R. 5<br>G. 5  | Orange and white fiberglass<br>structure; 16.       | W. 049°-078°, G.-147°, W.-<br>154°, R.-169°, W.-288°.  |
| 3505<br>A 3822.61                | --Rear, 195 meters 150°30'<br>from front.           | 60° 29.0' N<br>1° 16.7' W | <b>Oc.W.</b><br>period 5s<br>lt. 3s, ec. 2s                                | 115<br>35     | 8                     | White round tower, orange band<br>near top; 16.     | Visible 145°-156°.   |
| 3512<br>A 3822.8                 | -Ness of Bardister.                                 | 60° 28.2' N<br>1° 19.5' W | <b>Oc.W.R.G.</b><br>period 8s<br>lt. 6s, ec. 2s                            | 65<br>20      | W. 9<br>R. 6<br>G. 6  | Orange and white fiberglass<br>structure; 16.       | W. 180°30'-240°, R.-310°30',<br>W.-314°30', G.-030°30'.  |
| 3516<br>A 3823.6                 | -Ungam Island.                                      | 60° 27.3' N<br>1° 18.5' W | <b>V.Q.(2)W.</b><br>period 5s  | 6<br>2        | 2                     | White column; 7.                                    | <b>Radar reflector.</b>  |
| 3520<br>A 3824                   | Vatsetter, Whitehill.                               | 60° 34.8' N<br>1° 00.2' W | <b>Fl.W.R.</b><br>period 3s<br>fl. 0.3s, ec. 2.7s                          | 79<br>24      | W. 9<br>R. 6          | White metal framework tower;<br>16.                 | W. 147°-163°, R.-211°, W.-<br>352°, R.-003°.   |
| 3524<br>A 3828                   | Balta Islet, S. extremity.                          | 60° 44.4' N<br>0° 47.7' W | <b>Fl.W.R.</b><br>period 10s   | 59<br>18      | W. 10<br>R. 8         | White metal framework tower;<br>16.                 | W. 249°-008°, R.-058°, W.-<br>154°.  |
| 3526<br>A 3829                   | -Marina, breakwater, head.                          | 60° 45.6' N<br>0° 50.2' W | <b>Fl.R.</b><br>period 6s  | 6<br>2        | 2                     | Red pole; 3.  |  |
| 3528<br>A 3830                   | Uyea Sound.   | 60° 41.2' N<br>0° 55.5' W | <b>Fl.(2)W.</b><br>period 8s<br>fl. 0.3s, ec. 1.7s<br>fl. 0.3s, ec. 5.7s   | 20<br>6       | 7                     | Metal framework tower on<br>concrete structure; 26. |  |
| 3530<br>A 3830.85                | Yell, Gutcher, Ferry Terminal.                      | 60° 40.4' N<br>0° 59.6' W | <b>2 F.R.</b> (vert.)  | 23<br>7       | 2                     | Concrete pedestal; 3.                               |  |
|                                  |   |                           | <b>Oc.W.R.G.</b><br>period 8s<br>lt. 6s, ec. 2s                            | 13<br>4       | 2                     |   | G. 222°-232°, W.-236°, R.-<br>246°.  |
| 3530.3<br>A 3830.4               | Unst, Head of Mula.                                 | 60° 40.8' N<br>0° 57.6' W | <b>Fl.W.R.G.</b><br>period 5s  | 157<br>48     | W. 10<br>R. 7<br>G. 7 | Metal framework tower; 10.                          | G. 292°-357°, W.-002°, R.-<br>157°, W.-161°30'.  |
| 3530.5<br>A 3830.5               | Unst, Belmont, Ferry Terminal.                      | 60° 41.0' N<br>0° 58.1' W | <b>2 F.G.</b> (vert.)  | 20<br>6       | 2                     | Gray metal mast; 16.                                | 1 meter apart.   |
| 3540<br>A 3832                   | <b>North Unst, Muckle Flugga.</b>                   | 60° 51.3' N<br>0° 53.1' W | <b>Fl.(2)W.</b><br>period 20s<br>fl. 0.5s, ec. 3.5s<br>fl. 0.5s, ec. 15.5s | 215<br>66     | 22                    | White tower; 64.                                    | Obstruction lights mark mast<br>3.9 miles SE.  |

| (1)<br>No.                       | (2)<br>Name and Location                            | (3)<br>Position           | (4)<br>Characteristic   | (5)<br>Height | (6)<br>Range          | (7)<br>Structure                    | (8)<br>Remarks   |
|----------------------------------|---|---------------------------|---|---------------|-----------------------|-------------------------------------|--|
| <b>SCOTLAND-SHETLAND ISLANDS</b> |   |                           |   |               |                       |                                     |  |
| 3542<br>A 3834                   | Holm of Skaw.                                       | 60° 49.9' N<br>0° 46.3' W | <b>Fl.W.</b><br>period 5s<br>fl. 0.5s, ec. 4.5s   | 26<br>8       | 8                     | White metal framework tower;<br>20. |  |
| 3544<br>A 3838                   | <b>Esha Ness.</b>                                   | 60° 29.3' N<br>1° 37.6' W | <b>Fl.W.</b><br>period 12s<br>fl. 0.4s, ec. 11.6s   | 199<br>61     | 25                    | White square tower; 40.             |  |
| 3548<br>A 3840                   | Hillswick, S. end of Ness.                          | 60° 27.2' N<br>1° 29.7' W | <b>Fl.(4)W.R.</b><br>period 15s<br>fl. 0.5s, ec. 2s<br>fl. 0.5s, ec. 2s<br>fl. 0.5s, ec. 2s<br>fl. 0.5s, ec. 7s | 110<br>34     | W. 9<br>R. 6          | White metal framework tower;<br>16. | W. 217°-093°, R.-114°.   |
| 3552<br>A 3844                   | Muckle Roe, Swarbacks Minn,<br>N. side of entrance. | 60° 21.0' N<br>1° 27.1' W | <b>Fl.W.R.</b><br>period 3s<br>fl. 0.3s, ec. 2.7s   | 100<br>30     | W. 9<br>R. 6          | White metal framework tower;<br>23. | W. 314°-041°, R.-075°, W.-<br>137°.  |
| 3553<br>A 3844.5                 | Aith. Breakwater, RNLI berth.                       | 60° 17.2' N<br>1° 22.3' W | <b>Q.G.</b>   | 16<br>5       | 3                     | Green post; 6.                      |  |
| 3554<br>A 3845                   | W. Burru Firth, Transport pier<br>head.             | 60° 17.7' N<br>1° 32.3' W | <b>2 F.G.</b> (vert.)   | 13<br>4       | 4                     | Gray pole.                          | 1 meter apart.   |
| 3554.5<br>A 3844.9               | W. Burra Firth. Outer.                              | 60° 17.8' N<br>1° 33.6' W | <b>Oc.W.R.G.</b><br>period 8s   | 88<br>27      | W. 9<br>R. 7<br>G. 7  | White square masonry tower; 7.      | G. 136°-142°, W.-150°, R.-<br>156°.<br>Shown 24 hours.   |
| 3555<br>A 3845.5                 | -Inner.   | 60° 17.8' N<br>1° 32.0' W | <b>F.W.R.G.</b>   | 29<br>9       | W. 15<br>R. 9<br>G. 9 | White square masonry tower; 7.      | G. 095°-098°, W.-102°, R.-<br>105°.<br>Range 2M by day.<br>Shown 24 hours.                           |
| 3556<br>A 3847                   | Ve Skerries.  | 60° 22.4' N<br>1° 48.8' W | <b>Fl.(2)W.</b><br>period 20s<br>fl. 0.7s, ec. 2s<br>fl. 0.7s, ec. 16.6s  | 56<br>17      | 11                    | White concrete tower; 52.           |  |
|                                  | <b>RACON</b>  |                           | <b>T(-)</b>   |               | <b>15</b>             |                                     | (3 & 10cm).  |
| 3560<br>A 3850                   | White Ness, Ram's Head.                             | 60° 12.0' N<br>1° 33.5' W | <b>Fl.W.R.G.</b><br>period 8s<br>fl. 1s, ec. 7s   | 56<br>17      | W. 9<br>R. 6<br>G. 6  | White metal framework tower;<br>16. | G. 265°-355°, W.-012°, R.-<br>090°, W.-136°.<br>Partially obscured 030°-090°<br>beyond Vaila Island. |
| 3561<br>A 3854.7                 | North Havra.  | 60° 09.8' N<br>1° 20.3' W | <b>Fl.(3)W.R.G.</b><br>period 12s   | 80<br>24      | W. 11<br>R. 8<br>G. 8 | White fiberglass tower; 10.         | G. 001°-053°30', W.-060°30',<br>R.-144°, G.-334°, W.-<br>337°30', R.-001°.                           |
| 3562<br>A 3860                   | <b>Foula Island South Ness.</b>                     | 60° 06.8' N<br>2° 03.8' W | <b>Fl.(3)W.</b><br>period 15s<br>fl. 0.1s, ec. 2.8s<br>fl. 0.1s, ec. 2.8s<br>fl. 0.1s, ec. 9.1s                 | 118<br>36     | 17                    | White tower.                        | Visible 221°-123°.   |
| 3564<br>A 3858                   | Fugla Ness.   | 60° 06.4' N<br>1° 20.9' W | <b>Fl.(2)W.R.G.</b><br>period 10s<br>fl. 0.5s, ec. 1.5s<br>fl. 0.5s, ec. 7.5s                                   | 66<br>20      | W. 10<br>R. 7<br>G. 7 | White tower; 26.                    | G. 014°-032°, W.-082°, R.-<br>134°, W.-272°.   |

#### SCOTLAND-NORTH COAST

|                |                     |                           |  |           |           |                             |                                 |
|----------------|---------------------|---------------------------|--|-----------|-----------|-----------------------------|---------------------------------|
| 3568<br>A 3868 | <b>Sule Skerry.</b> | 59° 05.1' N<br>4° 24.5' W | <b>Fl.(2)W.</b><br>period 15s<br>fl. 0.2s, ec. 3.6s<br>fl. 0.2s, ec. 11s | 113<br>34 | 21        | White tower; 89.            | <b>AIS</b> (MMSI No 992351082). |
|                | <b>RACON</b>        |                           | <b>T(-)</b>  |           | <b>20</b> |                             | (3 & 10cm).                     |
| 3572<br>A 3870 | Sula Sgeir.         | 59° 05.7' N<br>6° 09.5' W | <b>Fl.W.</b><br>period 15s<br>fl. 1s, ec. 14s                            | 243<br>74 | 11        | Square metal structure; 16. |                                 |

| (1)<br>No.                  | (2)<br>Name and Location | (3)<br>Position           | (4)<br>Characteristic  | (5)<br>Height     | (6)<br>Range   | (7)<br>Structure                         | (8)<br>Remarks                  |
|-----------------------------|--------------------------|---------------------------|--|-------------------|----------------|--|---------------------------------|
| <b>SCOTLAND-NORTH COAST</b> |                          |                           |  |                   |                |  |                                 |
| 3574<br><i>A 3869</i>       | <b>Rona.</b>             | 59° 07.3' N<br>5° 48.8' W | <b>Fl.(3)W.</b><br>period 20s<br>fl. 0.2s, ec. 3.1s<br>fl. 0.2s, ec. 3.1s<br>fl. 0.2s, ec. 13.2s                       | 374<br><b>114</b> | <b>22</b>      | White square tower, three buildings; 30. | <b>AIS</b> (MMSI No 992351081). |
| 3576<br><i>A 3880</i>       | <b>Cape Wrath.</b>       | 58° 37.5' N<br>5° 00.0' W | <b>Fl.(4)W.</b><br>period 30s<br>fl. 0.2s, ec. 3.6s<br>fl. 0.2s, ec. 3.6s<br>fl. 0.2s, ec. 3.6s<br>fl. 0.2s, ec. 18.4s | 400<br><b>122</b> | <b>22</b>      | White tower; 66.                         | <b>AIS</b> (MMSI No 992351087). |
| 3580<br><i>A 3874</i>       | Loch Eriboll White Head. | 58° 31.0' N<br>4° 38.8' W | <b>Fl.W.R.</b><br>period 10s<br>fl. 0.5s, ec. 9.5s   | 62<br><b>19</b>   | W. 13<br>R. 10 | White metal framework tower; 16.         | W. 030°-172°, R.-191°, W.-212°. |

# Section 4

## West Coast of Scotland Including The Hebrides and Firth of Clyde

| (1)<br>No.                 | (2)<br>Name and Location            | (3)<br>Position           | (4)<br>Characteristic   | (5)<br>Height | (6)<br>Range         | (7)<br>Structure                     | (8)<br>Remarks   |
|----------------------------|-------------------------------------|---------------------------|---|---------------|----------------------|--------------------------------------|--|
| <b>SCOTLAND-WEST COAST</b> |                                     |                           |   |               |                      |                                      |  |
| 3584<br>A 3880.6           | Rubha na Lecaig, (Ministers Point). | 58° 27.4' N<br>5° 04.5' W | <b>Fl.(2)W.</b><br>period 10s<br>fl. 0.3s, ec. 1s<br>fl. 0.3s, ec. 8.4s   | 100<br>30     | 8                    | Concrete pedestal.                   |  |
| 3585<br>A 3881             | <b>Loch Bervie.</b>                 | 58° 27.5' N<br>5° 03.0' W | <b>Dir.W.R.G.</b>   | 49<br>15      | 16                   | Yellow framework tower.<br>Floodlit. | F.G. 326°-326°30', Al.G.W.-<br>326°45', F.W.-327°15',<br>Al.R.W.-327°30', F.R.-<br>328°. |
| 3588<br>A 3881.3           | No 1.                               | 58° 27.3' N<br>5° 02.8' W | <b>Fl.R.</b><br>period 4s<br>fl. 0.3s, ec. 3.7s                           |               |                      | Red pole; 7.                         |  |
| 3592<br>A 3881.4           | No 2.                               | 58° 27.3' N<br>5° 02.8' W | <b>Q.R.</b>   |               |                      | Red pole; 7.                         |  |
| 3596<br>A 3881.5           | No 3.                               | 58° 27.3' N<br>5° 02.8' W | <b>Fl.G.</b><br>period 4s<br>fl. 0.3s, ec. 3.7s                           |               |                      | Green pole; 7.                       |  |
| 3598<br>A 3881.7           | -Creag Mhor.                        | 58° 27.0' N<br>5° 02.4' W | <b>Iso.W.R.G.</b><br>period 2s  | 52<br>16      | 4                    | Metal pole.                          | R. 136°30'-146°30', W.-<br>147°30', G.-157°30'.  |
| 3600<br>A 3882             | <b>Stoer Head.</b>                  | 58° 14.4' N<br>5° 24.2' W | <b>Fl.W.</b><br>period 15s<br>fl. 0.4s, ec. 14.6s                         | 194<br>59     | 18                   | White tower; 46.                     |  |
| 3602<br>A 3882.7           | Kyleskv, fishing jetty.             | 58° 15.3' N<br>5° 01.0' W | <b>2 F.G.</b> (vert.)   | 19<br>6       | 3                    | Gray mast; 16.                       | 2 meters apart.  |
| LOCH INVER:                |                                     |                           |   |               |                      |                                      |  |
| 3604<br>A 3883             | -Glas Leac.                         | 58° 08.7' N<br>5° 16.3' W | <b>Fl.W.R.G.</b><br>period 3s<br>fl. 0.3s, ec. 2.7s                       | 24<br>7       | 5                    | Concrete pedestal.                   | W. 071°-078°, R.-090°, G.-<br>103°, W.-111°, R.-243°,<br>W.-247°, G.-071°.               |
| 3606<br>A 3883.2           | -Off Aird Ghlas.                    | 58° 08.9' N<br>5° 15.1' W | <b>Q.G.</b>   | 10<br>3       | 1                    | Black column, white bands.           |  |
| 3608<br>A 3883.7           | -Soyea Island.                      | 58° 08.5' N<br>5° 19.6' W | <b>Fl.(2)W.</b><br>period 10s<br>fl. 0.3s, ec. 1s<br>fl. 0.3s, ec. 8.4s   | 112<br>34     | 6                    | Yellow pedestal.                     |  |
| 3612<br>A 3886             | Ullapool, Ferry pier.               | 57° 53.6' N<br>5° 09.5' W | <b>2 F.R.</b> (vert.)   | 21<br>6       |                      | Post; 10.                            | 1 meter apart.   |
| 3612.5<br>A 3886.2         | --Extension, SE. corner.            | 57° 53.7' N<br>5° 09.3' W | <b>Fl.R.</b><br>period 3s   | 21<br>6       | 1                    | Pole; 10.                            |  |
| 3616<br>A 3885             | Rubha Cadail.                       | 57° 55.5' N<br>5° 13.4' W | <b>Fl.W.R.G.</b><br>period 6s<br>fl. 1s, ec. 5s                           | 35<br>11      | W. 9<br>R. 6<br>G. 6 | White tower; 30.                     | G. 311°-320°, W.-325°, R.-<br>103°, W.-111°, G.-118°,<br>W.-127°, R.-157°, W.-<br>199°.  |
| 3620<br>A 3885.5           | -Ullapool Point.                    | 57° 53.6' N<br>5° 09.9' W | <b>Iso.R.</b><br>period 4s  | 26<br>8       | 6                    | Gray metal mast; 19.                 | Visible 258°-108°.   |
| 3624<br>A 3887             | Cailleach.                          | 57° 55.8' N<br>5° 24.2' W | <b>Fl.(2)W.</b><br>period 12s<br>fl. 0.3s, ec. 1.5s<br>fl. 0.3s, ec. 9.9s | 196<br>60     | 9                    | White metal framework tower;<br>16.  | Visible 015°-236°.   |
| 3626<br>A 3887.5           | Aultbea, Aird pier, head.           | 57° 50.3' N<br>5° 35.6' W | <b>2 F.G.</b> (vert.)   | 26<br>8       | 3                    | Gray metal pole; 20.                 | 2 meters apart.  |

| (1)<br>No.                 | (2)<br>Name and Location                              | (3)<br>Position           | (4)<br>Characteristic   | (5)<br>Height | (6)<br>Range         | (7)<br>Structure                 | (8)<br>Remarks  |
|----------------------------|---|---------------------------|---|---------------|----------------------|----------------------------------|---|
| <b>SCOTLAND-WEST COAST</b> |   |                           |   |               |                      |                                  |   |
| 3628<br>A 3888             | NATO POL Jetty, NW. corner.                           | 57° 49.7' N<br>5° 35.1' W | <b>Fl.G.</b><br>period 4s<br>fl. 0.4s, ec. 3.6s   | 16<br>5       | 3                    | Metal post.                      |   |
| 3632<br>A 3888.2           | -Off N. head.   | 57° 49.7' N<br>5° 35.1' W | <b>Fl.G.</b><br>period 4s<br>fl. 0.4s, ec. 3.6s   |               |                      | Dolphin.                         |   |
| 3636<br>A 3888.3           | -Off S. head.   | 57° 49.5' N<br>5° 35.1' W | <b>Fl.G.</b><br>period 4s<br>fl. 0.4s, ec. 3.6s   |               |                      | Dolphin.                         |   |
| 3640<br>A 3900             | <b>Rubha Reidh.</b>                                   | 57° 51.5' N<br>5° 48.7' W | <b>Fl.(4)W.</b><br>period 15s<br>fl. 0.4s, ec. 2.1s<br>fl. 0.4s, ec. 2.1s<br>fl. 0.4s, ec. 2.1s<br>fl. 0.4s, ec. 7.1s | 120<br>37     | 24                   | White tower, dwellings; 82.      | <b>AIS</b> (MMSI No 992320797).                       |
| 3644<br>A 3902             | Loch Gairloch, Glas Eilean.                           | 57° 42.8' N<br>5° 42.4' W | <b>Fl.W.R.G.</b><br>period 6s<br>fl. 0.5s, ec. 5.5s   | 29<br>9       | W. 6<br>R. 4<br>G. 4 | Metal pedestal, concrete base.   | W. 080°-102°, R.-296°, W.-333°, G.-080°.              |
| 3648<br>A 3903             | -Gairloch pier.                                       | 57° 42.6' N<br>5° 41.0' W | <b>Q.R.</b>   | 20<br>6       | 2                    | Gray column; 7.                  |   |
| 3660<br>A 3904             | Rona.   | 57° 34.7' N<br>5° 57.5' W | <b>Fl.W.</b><br>period 12s<br>fl. 0.2s, ec. 11.8s   | 225<br>69     | 12                   | White tower; 43.                 | Visible 050°-358°.<br><b>AIS</b> (MMSI No 992351045). |
| 3664<br>A 3905.3           | --SW. corner.   | 57° 34.7' N<br>5° 57.9' W | <b>2 F.R.</b> (vert.)   |               |                      |                                  |   |
| 3668<br>A 3905             | -Sgeir Shuas.   | 57° 35.0' N<br>5° 58.6' W | <b>Fl.R.</b><br>period 2s<br>fl. 0.3s, ec. 1.7s   | 20<br>6       | 3                    |                                  | Visible 070°-199°.                                    |
| 3672<br>A 3905.4           | --No 9 Range, front.                                  | 57° 34.4' N<br>5° 58.1' W | <b>Q.W.R.G.</b>   | 10<br>3       | W. 4<br>R. 3<br>G. 3 | White and orange beacon.         | W. 135°-138°, R.-318°, G.-135°.                       |
| 3676<br>A 3905.6           | --Rear, No 10, 136°31' from front.                    | 57° 34.3' N<br>5° 57.9' W | <b>Iso.W.</b><br>period 6s  | 92<br>28      | 5                    | White beacon.                    |   |
| 3678<br>A 3905.35          | --Undesignated beacon.                                | 57° 34.6' N<br>5° 58.0' W | <b>Q.R.</b>   | 10<br>3       | 3                    | Red beacon.                      |   |
| 3680<br>A 3905.8           | --No 1.   | 57° 34.3' N<br>5° 58.3' W | <b>Fl.G.</b><br>period 3s<br>fl. 0.3s, ec. 2.7s   | 299<br>91     | 3                    | Orange beacon.                   |   |
| 3684<br>A 3906             | -Rubha Chuilteirbh.                                   | 57° 34.1' N<br>5° 57.2' W | <b>Fl.W.</b><br>period 3s<br>fl. 0.3s, ec. 2.7s   | 20<br>6       | 5                    | White beacon.                    |   |
| 3688<br>A 3906.2           | -No 11.   | 57° 33.1' N<br>5° 57.6' W | <b>Q.Y.</b>   | 20<br>6       | 4                    | Orange beacon.                   |   |
| 3692<br>A 3906.4           | -No 3.  | 57° 32.6' N<br>5° 57.9' W | <b>Fl.(2)W.</b><br>period 10s   | 30<br>9       | 4                    | White beacon, orange stripes.    |   |
| 3696<br>A 3906.6           | -No 12.   | 57° 32.0' N<br>5° 58.1' W | <b>Q.R.</b>   | 16<br>5       | 3                    | Orange beacon.                   |   |
| 3700<br>A 3907             | -Garbh Eilean, No 8.                                  | 57° 30.7' N<br>5° 58.6' W | <b>Fl.W.</b><br>period 3s<br>fl. 0.3s, ec. 2.7s   | 25<br>8       | 5                    | White beacon.                    |   |
| 3704<br>A 3916             | Crowlin, Eilean Beag.                                 | 57° 21.2' N<br>5° 51.4' W | <b>Fl.W.</b><br>period 6s<br>fl. 0.3s, ec. 5.7s   | 105<br>32     | 6                    | White metal framework tower; 16. |   |
| 3708<br>A 3909.6           | Eyre Point.   | 57° 20.0' N<br>6° 01.3' W | <b>Fl.W.R.</b><br>period 3s<br>fl. 0.4s, ec. 2.6s   | 20<br>6       | W. 9<br>R. 6         | White metal framework tower; 16. | W. 215°-267°, R.-288°, W.-063°.                       |
| 3712<br>A 3909.2           | Isle of Skye, Loch Sligachan, Sconser Ferry Terminal. | 57° 18.9' N<br>6° 06.6' W | <b>Q.R.</b>   | 26<br>8       | 3                    | Gray post.                       |   |

| (1)<br>No.                 | (2)<br>Name and Location                | (3)<br>Position           | (4)<br>Characteristic   | (5)<br>Height | (6)<br>Range         | (7)<br>Structure                               | (8)<br>Remarks  |
|----------------------------|---|---------------------------|---|---------------|----------------------|--|---|
| <b>SCOTLAND-WEST COAST</b> |   |                           |   |               |                      |  |   |
| 3720<br>A 3908             | -Portree pier, head.                    | 57° 24.6' N<br>6° 11.4' W | <b>2 F.R.</b> (vert.)   | 21<br>6       | 4                    | Post.  |   |
| 3724<br>A 3910             | -Ru Na Lachan.                          | 57° 29.0' N<br>5° 52.1' W | <b>Oc.W.R.</b><br>period 8s<br>lt. 6s, ec. 2s                             | 69<br>21      | 10                   | Metal framework tower; 10.                     | W. 337°-022°, R.-117°, W.-162°.   |
| 3725<br>A 3910.2           | -Applecross Pier.                       | 57° 28.4' N<br>5° 52.4' W | <b>Fl.G.</b><br>period 3s<br>fl. 0.3s, ec. 2.7s                           | 10<br>3       | 3                    | STARBOARD (A)<br>G, post, topmark.             |   |
| 3735<br>A 3920             | Broadford Bay, pier, head.              | 57° 14.9' N<br>5° 54.3' W | <b>Fl.G.</b><br>period 4s   | 13<br>4       | 3                    | Metal post; 6.                                 |   |
| 3744<br>A 3925             | Kyle Akin, jetty, head.                 | 57° 16.5' N<br>5° 45.2' W | <b>2 F.R.</b> (vert.)   | 33<br>10      |                      |  | Visible 075°-270°. 2 meters apart.  |
| 3748<br>A 3926             | Kyle Akin.                              | 57° 16.4' N<br>5° 43.4' W | <b>Q.R.</b>   | 19<br>6       |                      | Metal post.                                    |   |
| 3756<br>A 3928             | Kyle of Loch Alsh, W. side, pier, head. | 57° 16.8' N<br>5° 42.9' W | <b>2 F.G.</b> (vert.)   | 20<br>6       | 5                    | Post; 10.                                      | 1 meter apart.  |
| 3760<br>A 3928.2           | -E. side, pier, head.                   | 57° 16.7' N<br>5° 42.8' W | <b>2 F.G.</b> (vert.)   | 19<br>6       | 4                    | Post; 10.                                      | 1 meter apart.  |
| 3762<br>A 3928.4           | -Kyle, Old Ferry pontoons.              | 57° 16.8' N<br>5° 43.0' W | <b>2 F.G.</b> (vert.)   | 10<br>3       | 1                    | Gray pole.                                     | 0.5 meters apart. Shown from Apr. to Sep.   |
| 3764<br>A 3930             | -Butec, jetty, W. head.                 | 57° 16.7' N<br>5° 42.5' W | <b>Oc.G.</b><br>period 6s<br>lt. 4s, ec. 2s                               | 16<br>5       | 3                    | White metal post; 10.                          | Red obstruction lights and floodlighting. Synchronized with E. end.                       |
| 3768<br>A 3930.2           | --E. head.                              | 57° 16.7' N<br>5° 42.5' W | <b>Oc.G.</b><br>period 6s<br>lt. 4s, ec. 2s                               | 16<br>5       | 3                    | White metal post; 10.                          | Synchronized with W. end.   |
| 3772<br>A 3927             | -Eileanan Dubha.                        | 57° 16.6' N<br>5° 42.4' W | <b>Fl.(2)W.</b><br>period 10s<br>fl. 0.5s, ec. 1.5s<br>fl. 0.5s, ec. 7.5s | 29<br>9       | 8                    | White metal framework tower; 16.               | Partially obscured 104°-146° beyond adjacent islet.                                       |
| 3774<br>A 3927.5           | --Island, close W.                      | 57° 16.6' N<br>5° 42.7' W | <b>Fl.G.</b><br>period 6s<br>fl. 0.3s, ec. 5.7s                           | 16<br>5       | 4                    | Metal box, concrete base.                      |   |
| 3780<br>A 3960             | -Sgeir Dhearg.                          | 57° 00.6' N<br>5° 49.6' W | <b>Fl.(2)W.G.</b><br>period 8s  | 20<br>6       | 5                    | Gray beacon; 25.                               | G. 190°-055°, W.-190°.  |
| 3788<br>A 3952             | -Point of Sleat.                        | 57° 01.1' N<br>6° 01.1' W | <b>Fl.W.</b><br>period 3s<br>fl. 1s, ec. 2s                               | 67<br>20      | 9                    | White tower; 22.                               |   |
| 3790<br>A 3956             | -Mallaig Harbor.                        | 57° 00.5' N<br>5° 49.5' W | <b>Iso.W.R.G.</b><br>period 4s  | 20<br>6       | W. 9<br>R. 6<br>G. 6 | Gray metal framework tower, concrete base; 36. | G. 181°-185°, W.-197°, R.-201°<br>3 F.R. (vert.) shown when vessels may not enter harbor. |
|                            |   |                           | <b>Fl.G.</b><br>period 3s<br>fl. 1s, ec. 2s                               | 46<br>14      | 6                    |  |   |
| 3792<br>A 3948             | -Armadale Bay.                          | 57° 03.9' N<br>5° 53.6' W | <b>Oc.R.</b><br>period 6s<br>lt. 4s, ec. 2s                               | 21<br>6       | 6                    | Building.                                      |   |
| -Isle Ornsay:              |   |                           |   |               |                      |  |   |
| 3800<br>A 3944             | --Eilean Siannach.                      | 57° 08.6' N<br>5° 46.8' W | <b>Oc.W.</b><br>period 8s<br>lt. 6s, ec. 2s                               | 58<br>18      | 12                   | White tower; 62.                               | Visible 157°-030°.  |
| 3804<br>A 3942             | --Isle Ornsay, N., head.                | 57° 09.1' N<br>5° 46.9' W | <b>Fl.R.</b><br>period 6s<br>fl. 0.5s, ec. 5.5s                           | 27<br>8       | 4                    | White metal framework tower, stone column; 26. |   |

| (1)<br>No.                 | (2)<br>Name and Location        | (3)<br>Position           | (4)<br>Characteristic  | (5)<br>Height | (6)<br>Range         | (7)<br>Structure                    | (8)<br>Remarks  |
|----------------------------|---------------------------------|---------------------------|--|---------------|----------------------|-------------------------------------|---|
| <b>SCOTLAND-WEST COAST</b> |                                 |                           |  |               |                      |                                     |   |
| 3808<br>A 3940             | Sandaig, NW. point.             | 57° 10.1' N<br>5° 42.3' W | <b>Fl.W.</b><br>period 6s<br>fl. 0.3s, ec. 5.7s  | 43<br>13      | 8                    | White metal framework tower;<br>16. |   |
| 3812<br>A 3938             | Kyle Rhea.                      | 57° 14.2' N<br>5° 40.0' W | <b>Fl.W.R.G.</b><br>period 3s<br>fl. 0.5s, ec. 2.5s  | 22<br>7       | W. 8<br>R. 5<br>G. 5 | White tower; 23.                    | R. 170°-219°, W.-228°, G.-<br>338°, W.-346°, R.-044°.                         |
| 3816<br>A 3934             | Sgeir-na-Caillich.              | 57° 15.6' N<br>5° 38.9' W | <b>Fl.(2)R.</b><br>period 6s<br>fl. 0.3s, ec. 1s<br>fl. 0.3s, ec. 4.4s                       | 10<br>3       | 4                    | Beacon.                             |   |
| <b>SCOTLAND-HEBRIDES</b>   |                                 |                           |  |               |                      |                                     |   |
| 3820<br>A 3968             | <b>Butt of Lewis.</b>           | 58° 30.9' N<br>6° 15.7' W | <b>Fl.W.</b><br>period 5s<br>fl. 0.2s, ec. 4.8s  | 170<br>52     | 25                   | Red brick tower; 121.               | Visible 056°-320°.<br><b>AIS</b> (MMSI No 002320799).<br><b>DGPS Station.</b> |
| 3824<br>A 3972             | <b>Tiumpán Head.</b>            | 58° 15.7' N<br>6° 08.3' W | <b>Fl.(2)W.</b><br>period 15s<br>fl. 0.4s, ec. 1.5s<br>fl. 0.4s, ec. 12.7s                   | 180<br>55     | 25                   | White tower; 69.                    |   |
| STORNOWAY:                 |                                 |                           |  |               |                      |                                     |   |
| 3828<br>A 3976             | -Arnish Point.                  | 58° 11.5' N<br>6° 22.2' W | <b>Fl.W.R.</b><br>period 10s<br>fl. 0.5s, ec. 9.5s   | 56<br>17      | W. 9<br>R. 7         | White round tower; 46.              | W. 088°-198°, R.-302°, W.-<br>013°.   |
| 3832<br>A 3978             | -Stoney Field.                  | 58° 11.6' N<br>6° 21.3' W | <b>Fl.W.R.G.</b><br>period 3s<br>fl. 1s, ec. 2s  | 26<br>8       | 11                   | Metal pole; 10.                     | G. 320°-073°, R.-102°, W.-<br>109°, G.-205°.                                  |
| 3836<br>A 3977             | -Sandwick Bay, NW. side.        | 58° 12.2' N<br>6° 22.2' W | <b>Oc.W.R.G.</b><br>period 6s<br>lt. 4s, ec. 2s  | 32<br>10      | 9                    | Metal pole; 10.                     | G. 334°-341°, W.-347°, R.-<br>354°.   |
| 3840<br>A 3979             | -Eilean na Gothail.             | 58° 12.2' N<br>6° 22.9' W | <b>Fl.G.</b><br>period 6s<br>fl. 0.5s, ec. 5.5s  | 26<br>8       |                      | Metal column; 10.                   |   |
| 3844<br>A 3980             | -Patent slip jetty, outer head. | 58° 12.2' N<br>6° 22.9' W | <b>2 F.G.</b> (vert.)  |               |                      | Concrete column; 7.                 |   |
| 3848<br>A 3981             | -No 1 pier, SW. corner.         | 58° 12.4' N<br>6° 23.3' W | <b>Q.W.R.G.</b>  | 16<br>5       | 11                   | Pole; 10.                           | G. 307°-335°, W.-352°, R.-<br>019°.   |
| 3860<br>A 3984             | Milaid.                         | 58° 01.1' N<br>6° 22.0' W | <b>Fl.W.</b><br>period 15s<br>fl. 1s, ec. 14s  | 56<br>17      | 10                   | White metal framework tower.        |   |
| 3864<br>A 3986             | Rubha Uisenish.                 | 57° 56.3' N<br>6° 28.3' W | <b>Fl.W.</b><br>period 5s<br>fl. 0.4s, ec. 4.6s  | 79<br>24      | 11                   | White tower; 23.                    |   |
| 3868<br>A 3990             | <b>Eilean Glas.</b>             | 57° 51.4' N<br>6° 38.5' W | <b>Fl.(3)W.</b><br>period 20s<br>fl. 0.5s, ec. 2s<br>fl. 0.5s, ec. 2s<br>fl. 0.5s, ec. 14.5s | 141<br>43     | 23                   | White tower, red bands; 98.         | <b>AIS</b> (MMSI No 992356014).   |
| RACON                      |                                 | <b>T(-)</b>               |  |               | 16                   |                                     | (3 & 10cm).   |
| 3872<br>A 3992             | -Dun Cor Mor.                   | 57° 51.0' N<br>6° 44.0' W | <b>Fl.R.</b><br>period 5s<br>fl. 0.4s, ec. 4.6s  | 33<br>10      | 5                    | White painted structure; 6.         |   |
| EAST LOCH TARBERT:         |                                 |                           |  |               |                      |                                     |   |
| 3876<br>A 3993             | -Sgeir Ghlas.                   | 57° 52.4' N<br>6° 45.3' W | <b>Iso.W.R.G.</b><br>period 4s   | 29<br>9       | W. 9<br>R. 6<br>G. 6 | White round concrete tower; 18.     | G. 282°-319°, W.-329°, R.-<br>153°, W.-164°, G.-171°,<br>obsc.-282°.          |



| (1)<br>No.               | (2)<br>Name and Location                           | (3)<br>Position           | (4)<br>Characteristic  | (5)<br>Height | (6)<br>Range | (7)<br>Structure                            | (8)<br>Remarks  |
|--------------------------|--|---------------------------|--|---------------|--------------|---|---|
| <b>SCOTLAND-HEBRIDES</b> |  |                           |  |               |              |   |   |
| 3881<br>A 3994.25        | -Jane's Tower.                                     | 57° 45.8' N<br>7° 02.0' W | <b>Q.(2)G.</b><br>period 5s  | 20<br>6       | 4            | Concrete pedestal; 3.                       | Visible 318°-273°.<br>Q.W. and Oc.W. 3s in line<br>014°45' mark entrance to<br>Leverburgh.                        |
| 3882<br>A 3995           | Berneray, breakwater, head.                        | 57° 42.9' N<br>7° 10.0' W | <b>Iso.R.</b><br>period 4s   | 20<br>6       | 4            | Gray column; 17.                            |   |
| 3884<br>A 3995.6         | -Vallay Island.                                    | 57° 39.7' N<br>7° 26.3' W | <b>Fl.W.R.G.</b><br>period 3s<br>fl. 0.3s, ec. 2.7s  | 13<br>4       | 8            | Gray column, white concrete<br>base; 10.    | W. 206°-085°, G.-140°, W.-<br>145°, R.-206°.  |
| 3885<br>A 3995.8         | --Pier, head.                                      | 57° 39.3' N<br>7° 26.3' W | <b>2 F.G.</b> (vert.)  | 20<br>6       | 4            | Gray metal column; 16.                      | Shown Mar. to Oct.  |
| LOCH MADDY:              |  |                           |  |               |              |   |   |
| 3888<br>A 3996           | -Weavers Point.                                    | 57° 36.5' N<br>7° 06.0' W | <b>Fl.W.</b><br>period 3s<br>fl. 0.3s, ec. 2.7s  | 79<br>24      | 7            | White metal framework tower;<br>16.         |   |
| 3892<br>A 3996.4         | -Glas Eilean Mor.                                  | 57° 35.9' N<br>7° 06.7' W | <b>Fl.(2)G.</b><br>period 4s   | 26<br>8       | 5            | Aluminum column.                            |   |
| 3894<br>A 3996.6         | -Rubna Nam Pleac.                                  | 57° 35.7' N<br>7° 06.7' W | <b>Fl.R.</b><br>period 4s<br>fl. 0.3s, ec. 3.7s  | 23<br>7       | 5            | White post; 7.                              |   |
| 3896<br>A 3997           | -Ruigh Liath, E. islet.                            | 57° 35.7' N<br>7° 08.4' W | <b>Q.G.</b>  | 20<br>6       | 5            | Concrete pillar.                            |   |
| 3897<br>A 3998           | -Vallaquie Island.                                 | 57° 35.5' N<br>7° 09.3' W | <b>Fl.(3)W.R.G.</b><br>period 8s<br>fl. 0.4s, ec. 1.2s<br>fl. 0.4s, ec. 1.2s<br>fl. 0.4s, ec. 4.4s | 36<br>11      | 5            | Metal post.                                 | G. 195-205°, W.-210°, R.-<br>220°.  |
|                          |  |                           | <b>Fl.(3)W.R.G.</b><br>period 8s<br>fl. 0.4s, ec. 1.2s<br>fl. 0.4s, ec. 1.2s<br>fl. 0.4s, ec. 4.4s | 36<br>11      | 8            |   | G. 249°-254°, W.-257°, R.-<br>262°.   |
| 3898<br>A 3999.2         | Lochmaddy Range, front.                            | 57° 35.8' N<br>7° 09.3' W | <b>2 F.G.</b> (vert.)  | 26<br>8       | 4            | Column; 26.                                 | 2 meters apart.   |
| 3898.1<br>A 3999.21      | -Rear, 110 meters 298° from<br>front.              | 57° 35.8' N<br>7° 09.3' W | <b>Oc.G.</b><br>period 8s<br>lt. 6s, ec. 2s  | 33<br>10      | 4            | Column, dolphin; 13.                        | Visible 284°-304°.  |
| 3899<br>A 3999.5         | Grimsay, Kallin Harbor,<br>breakwater, NE. corner. | 57° 28.9' N<br>7° 12.3' W | <b>2 F.R.</b> (vert.)  | 20<br>6       | 5            | Gray metal column; 16.                      | 1 meter apart.  |
| 3900<br>A 4004           | <b>Ushenish.</b>                                   | 57° 17.9' N<br>7° 11.6' W | <b>Fl.W.</b><br>period 20s<br>fl. 0.4s, ec. 19.6s  | 176<br>54     | 19           | White tower; 39.                            | Visible 193°-018°.  |
| 3904<br>A 4000           | Loch Carnan Range, front.                          | 57° 22.0' N<br>7° 16.0' W | <b>Fl.R.</b><br>period 2s<br>fl. 0.5s, ec. 1.5s  | 23<br>7       | 5            | Post, white diamond daymark,<br>red stripe. |   |
| 3908<br>A 4000.1         | -Rear, 58 meters 222° from<br>front.               | 57° 22.0' N<br>7° 16.3' W | <b>Iso.R.</b><br>period 10s  | 37<br>11      | 5            | Post, white diamond daymark,<br>red stripe. |   |
| 3912<br>A 4028           | <b>Flannan Isles.</b>                              | 58° 17.3' N<br>7° 35.4' W | <b>Fl.(2)W.</b><br>period 30s<br>fl. 0.2s, ec. 5.8s<br>fl. 0.2s, ec. 23.8s                         | 330<br>101    | 20           | White tower; 75.                            | When close-up, obscured over<br>two small arcs by islands<br>W. of Eilean Mor.<br><b>AIS</b> (MMSI No 992351080). |
| 3914<br>A 4030           | Gasker Island.                                     | 57° 59.1' N<br>7° 17.2' W | <b>Fl.(3)W.</b><br>period 10s<br>fl. 0.3s, ec. 1s<br>fl. 0.3s, ec. 1s<br>fl. 0.3s, ec. 7.1s        | 125<br>38     | 12           | White metal framework tower;<br>16.         |   |
| 3916<br>A 4032           | -Loch Carloway, Aird<br>Laimishader.               | 58° 17.1' N<br>6° 49.5' W | <b>Fl.W.</b><br>period 6s<br>fl. 0.3s, ec. 5.7s  | 207<br>63     | 7            | White metal framework tower.                | Obscured by shore in certain<br>directions.   |

| (1)<br>No.        | (2)<br>Name and Location               | (3)<br>Position           | (4)<br>Characteristic  | (5)<br>Height | (6)<br>Range   | (7)<br>Structure                    | (8)<br>Remarks  |
|-------------------|--|---------------------------|--|---------------|----------------|-------------------------------------|---|
| SCOTLAND-HEBRIDES |  |                           |  |               |                |                                     |   |
| 3920<br>A 4036    | -Greinam, Breascleit Beacon.           | 58° 13.3' N<br>6° 46.2' W | Fl.W.R.<br>period 6s<br>fl. 0.5s, ec. 5.5s                             | 27<br>8       | W.<br>R.       | 8<br>7                              | White beacon; 18.<br><br>R. 143°-169°, W.-143°.   |
| 3924<br>A 4008    | Calvay.                                | 57° 08.5' N<br>7° 15.4' W | Fl.(2)W.R.G.<br>period 10s<br>fl. 0.5s, ec. 1.5s<br>fl. 0.5s, ec. 7.5s | 52<br>16      |                | 7                                   | White framework tower; 20.<br><br>W. 111°-190°, G.-202°, W.-<br>286°, R.-111°. AIS (MMSI No 992351139). |
| 3928<br>A 4010.1  | RoRo terminal, head.                   | 57° 09.2' N<br>7° 18.2' W | 2 F.G. (vert.)   |               |                | 3                                   | Metal column.   |
| 3932<br>A 4009.5  | - -N. side.                            | 57° 09.0' N<br>7° 17.0' W | Fl.G.<br>period 6s   | 10<br>3       |                | 3                                   | Metal post; 6.  |
| 3933<br>A 4011.5  | Acairseid Mhor Range, front.           | 57° 03.9' N<br>7° 17.2' W | Oc.R.<br>period 6s<br>lt. 4s, ec. 2s                                   | 29<br>9       |                | 4                                   | Orange post, white triangular<br>daymark point up.  |
| 3934<br>A 4011.51 | -Rear, 24 meters 285° from<br>front.   | 57° 03.9' N<br>7° 17.2' W | Oc.R.<br>period 6s<br>lt. 4s, ec. 2s                                   | 33<br>10      |                | 4                                   | Orange post, white triangular<br>daymark point down.  |
| 3935<br>A 4011.7  | Isle of Barra, Ardveenish.             | 57° 00.2' N<br>7° 24.4' W | Oc.W.R.G.<br>period 3s   | 20<br>6       | W.<br>R.<br>G. | 9<br>6<br>6                         | Gray metal column; 13.<br><br>G. 300°-304°, W.-306°, R.-<br>310°.                                       |
| 3936<br>A 4012    | Sgeir Dubh.                            | 56° 56.4' N<br>7° 28.9' W | Q.(3)G.<br>period 6s   | 20<br>6       |                | 5                                   | White concrete column, green<br>bands; 26.<br><br>In line 283° with Sgeir Liath.                        |
| 3937<br>A 4012.5  | -Channel Rock.                         | 56° 56.2' N<br>7° 28.9' W | Fl.W.R.<br>period 6s<br>fl. 0.6s, ec. 5.4s                             | 13<br>4       | W.<br>R.       | 6<br>4                              | White concrete column, red<br>bands; 23.<br><br>W. 121°30'-277°, R.-121°30'.                            |
| 3938              | Castlebay S. Buoy.                     | 56° 56.1' N<br>7° 27.2' W | Fl.(2)R.<br>period 8s  |               |                | PORT (A)<br>R, can.                 |   |
|                   | RACON                                  |                           | T(-)<br>period 70s   |               |                | 5                                   | (3 & 10cm).   |
| 3939              | Bo Vich Chaun Buoy.                    | 56° 56.2' N<br>7° 23.3' W | Q.(6)+L.Fl.W.<br>period 15s  |               |                | S. CARDINAL<br>YB, pillar, topmark. |   |
|                   | RACON                                  |                           | M(- -)<br>period 72s   |               |                | 5                                   | (3 & 10cm).   |
| CASTLEBAY:        |  |                           |  |               |                |                                     |   |
| 3944<br>A 4019    | -Sgeir Liath Range, front.             | 56° 56.7' N<br>7° 30.6' W | F.Bu.  | 29<br>9       |                | 6                                   | White framework tower, orange<br>triangular daymark point up;<br>16.<br><br>Visible 280°-310°.          |
| 3948<br>A 4019.1  | --Rear, 457 meters 295° from<br>front. | 56° 56.9' N<br>7° 31.0' W | F.Bu.  | 49<br>15      |                | 6                                   | White framework tower, orange<br>triangular daymark point<br>down; 13.<br><br>Visible 291°-299°.        |
| 3952<br>A 4020    | Barra Head.                            | 56° 47.1' N<br>7° 39.2' W | Fl.W.<br>period 15s<br>fl. 0.3s, ec. 14.7s                             | 683<br>208    |                | 18                                  | White stone tower; 59.<br><br>Obscured by islands NE.<br>AIS (MMSI No 992351095).                       |
| 3954<br>A 4020.3  | Haskier Island.                        | 57° 42.0' N<br>7° 41.3' W | Fl.W.<br>period 20s<br>fl. 0.3s, ec. 19.7s                             | 144<br>44     |                | 23                                  | White fiberglass tower; 30.<br><br>AIS (MMSI No 992351140).   |
|                   | RACON                                  |                           | M(- -)   |               |                | 14                                  | (3 & 10cm).   |
| 3955<br>A 4020.5  | Monach Islands.                        | 57° 31.6' N<br>7° 41.6' W | Fl.(2)W.<br>period 15s   | 154<br>47     |                | 18                                  | Red brick tower; 135.   |
| 3958<br>A 4047    | St. Kilda Range, front.                | 57° 48.4' N<br>8° 34.3' W | Oc.W.<br>period 5s<br>lt. 4s, ec. 1s                                   | 85<br>26      |                | 3                                   | Cairn; 3.   |
| 3959<br>A 4047.1  | -Rear, 100 meters 270° from<br>front.  | 57° 48.3' N<br>8° 34.2' W | Oc.W.<br>period 5s<br>lt. 4s, ec. 1s                                   | 125<br>38     |                | 3                                   | Cairn; 7.<br><br>Structure difficult to identify.<br>Synchronized with front.                           |

| (1)<br>No.                 | (2)<br>Name and Location                               | (3)<br>Position           | (4)<br>Characteristic  | (5)<br>Height | (6)<br>Range          | (7)<br>Structure                      | (8)<br>Remarks   |
|----------------------------|--|---------------------------|--|---------------|-----------------------|---------------------------------------|--|
| <b>SCOTLAND-WEST COAST</b> |  |                           |  |               |                       |                                       |  |
| 3960<br>A 4050             | Trodday.   | 57° 43.6' N<br>6° 17.9' W | <b>Fl.(2)W.R.G.</b><br>period 10s<br>fl. 0.3s, ec. 1.5s<br>fl. 0.3s, ec. 7.9s                | 171<br>52     | W. 12<br>R. 9<br>G. 9 | White metal framework tower;<br>23.   | W. 062°-088°, R.-130°, W.-<br>322°, G.-062°. <b>AIS</b> (MMSI No 992351084).   |
| SKYE:                      |  |                           |  |               |                       |                                       |  |
| 3964<br>A 4056             | -Watnish Point.  | 57° 36.5' N<br>6° 38.0' W | <b>Fl.W.</b><br>period 20s<br>fl. 1s, ec. 19s  | 70<br>21      |                       | White metal framework tower;<br>23.   |  |
| 3968<br>A 4052             | -Uig, pier, head.                                      | 57° 35.1' N<br>6° 22.3' W | <b>Iso.W.R.G.</b><br>period 4s   | 30<br>9       | W. 7<br>R. 4<br>G. 4  | Gray mast.                            | W. 180°-006°, G.-050°, W.-<br>073°, R.-180°.   |
| -Loch Dunvegan:            |  |                           |  |               |                       |                                       |  |
| 3972<br>A 4058             | --Uiginish Point.                                      | 57° 26.8' N<br>6° 36.6' W | <b>Fl.W.R.G.</b><br>period 3s<br>fl. 0.3s, ec. 2.7s  | 52<br>16      | W. 7<br>G. 5<br>R. 5  | White metal framework tower;<br>16.   | G. 041°-132°, W.-145°, R.-<br>148°, W.-253°, R.-263°,<br>W.-273°, G.-306°. Obscured by Fiadhairt Point<br>148°-167°. |
| 3976<br>A 4060             | --N. corner of pier.                                   | 57° 26.5' N<br>6° 35.4' W | <b>2 F.R.</b> (vert.)  | 16<br>5       |                       | Post.                                 | When a vessel is expected.   |
| 3980<br>A 4064             | -Ness (Neist) Point.                                   | 57° 25.4' N<br>6° 47.3' W | <b>Fl.W.</b><br>period 5s<br>fl. 0.3s, ec. 4.7s  | 140<br>43     |                       | White tower; 62.                      | <b>AIS</b> (MMSI No 992320187).  |
| 3984<br>A 4068             | --Ardtreck Point.                                      | 57° 20.4' N<br>6° 25.8' W | <b>Fl.W.</b><br>period 6s<br>fl. 0.5s, ec. 5.5s  | 59<br>18      |                       | White metal framework tower;<br>49.   |  |
| 3986<br>A 4069             | --Elgol.   | 57° 08.8' N<br>6° 06.5' W | <b>Fl.G.</b><br>period 3s<br>fl. 0.3s, ec. 2.7s  | 13<br>4       |                       | Gray pole; 16.                        |  |
| 3988<br>A 4074             | Sanday Island.   | 57° 02.8' N<br>6° 28.0' W | <b>Fl.W.</b><br>period 10s   | 105<br>32     |                       | White tower; 30.                      | Visible 152°-061°.   |
| 3992<br>A 4076             | Oigh Sgeir.  | 56° 58.1' N<br>6° 40.8' W | <b>Fl.(3)W.</b><br>period 30s<br>fl. 0.2s, ec. 3s<br>fl. 0.2s, ec. 3s<br>fl. 0.2s, ec. 23.4s | 136<br>41     |                       | White tower; 128.                     | <b>AIS</b> (MMSI No 992351094).  |
| RACON                      |  |                           | <b>T(—)</b>  |               | 14                    |                                       | (3 & 10cm).  |
| 3996<br>A 4096             | Skerryvore.  | 56° 19.4' N<br>7° 06.8' W | <b>Fl.W.</b><br>period 10s<br>fl. 0.4s, ec. 9.6s   | 150<br>46     |                       | Gray granite tower; 157.              | <b>AIS</b> (MMSI No 992351091).  |
| RACON                      |  |                           | <b>M(— —)</b>  |               | 18                    |                                       | (3 & 10cm).  |
| 4000<br>A 4098             | Dubh Artach.   | 56° 08.0' N<br>6° 38.1' W | <b>Fl.(2)W.</b><br>period 30s<br>fl. 0.2s, ec. 3.8s<br>fl. 0.2s, ec. 25.8s                   | 144<br>44     |                       | Gray granite tower, red band;<br>125. | <b>AIS</b> (MMSI No 992351088).  |
| 4004<br>A 4092             | Scarinish.   | 56° 30.0' N<br>6° 48.3' W | <b>Fl.W.</b><br>period 3s<br>fl. 0.2s, ec. 2.8s  | 37<br>11      |                       | White square tower; 10.               | Visible 210°-030°.   |
| 4005<br>A 4093             | -Range, front.   | 56° 30.6' N<br>6° 47.9' W | <b>F.R.</b>  | 26<br>8       |                       | Gray metal column; 16.                |  |
| 4005.5<br>A 4093.1         | --Rear, 100 meters 286°30'<br>from front.              | 56° 30.6' N<br>6° 47.8' W | <b>F.R.</b>  | 36<br>11      |                       | Gray metal column; 13.                |  |
| 4008<br>A 4102             | Eileanan Liathanaich (Grey<br>Islands), SE. extremity. | 56° 20.6' N<br>6° 16.4' W | <b>Fl.W.R.</b><br>period 6s<br>fl. 0.3s, ec. 5.7s  | 40<br>12      | W. 8<br>R. 6          | White framework tower; 16.            | R. 088°-108°, W.-088°.   |
| 4012<br>A 4080             | Eigg, on E. point of Eilean<br>Chathastail.            | 56° 52.3' N<br>6° 07.3' W | <b>Fl.W.</b><br>period 6s<br>fl. 0.3s, ec. 5.7s  | 80<br>24      |                       | White tower; 26.                      | Visible 181°-045°.   |

| (1)<br>No.                 | (2)<br>Name and Location                        | (3)<br>Position           | (4)<br>Characteristic  | (5)<br>Height | (6)<br>Range         | (7)<br>Structure                                       | (8)<br>Remarks   |
|----------------------------|---|---------------------------|--|---------------|----------------------|--|--|
| <b>SCOTLAND-WEST COAST</b> |   |                           |  |               |                      |  |  |
| 4016<br>A 4082             | Ardnamurchan.                                   | 56° 43.6' N<br>6° 13.6' W | <b>Fl.(2)W.</b><br>period 20s<br>fl. 0.5s, ec. 2s<br>fl. 0.5s, ec. 17s                             | 180<br>55     | 24                   | Gray granite tower; 118.                               | Visible 002°-217°.<br><b>AIS</b> (MMSI No 992351046).                      |
| 4020<br>A 4084             | Cairns of Coll, Suil Ghorm.                     | 56° 42.3' N<br>6° 26.7' W | <b>Fl.W.</b><br>period 12s<br>fl. 0.5s, ec. 11.5s  | 74<br>23      | 10                   | White tower; 25.                                       |  |
| 4024<br>A 4087             | -Loch Eatharna, Arinagour,<br>Pier, near head.  | 56° 36.9' N<br>6° 31.3' W | <b>2 F.R.</b> (vert.)  | 39<br>12      | 3                    | Gray metal column; 26.                                 | 1.5 meters apart.  |
| SOUND OF MULL:             |   |                           |  |               |                      |  |  |
| 4028<br>A 4107             | -Ardmore Point.                                 | 56° 39.4' N<br>6° 07.7' W | <b>Fl.(2)W.</b><br>period 10s<br>fl. 0.8s, ec. 2.3s<br>fl. 0.8s, ec. 6.1s                          | 59<br>18      | 13                   | White metal framework tower;<br>16.                    |  |
| 4030<br>A 4109             | -Kilchoan, Mingary, pier, near<br>head.         | 56° 41.3' N<br>6° 05.6' W | <b>Q.R.</b>  | 26<br>8       | 3                    | Gray pole.   |  |
| 4032<br>A 4112             | -Rubha nan Gall.                                | 56° 38.3' N<br>6° 04.0' W | <b>Fl.W.</b><br>period 3s<br>fl. 0.3s, ec. 2.7s  | 56<br>17      | 10                   | White tower; 62.                                       |  |
| 4036<br>A 4122             | -Eileanan Glasa (Green Island),<br>Dearg Sgeir. | 56° 32.3' N<br>5° 54.8' W | <b>Fl.W.</b><br>period 6s<br>fl. 0.3s, ec. 5.7s  | 23<br>7       | 8                    | White metal framework tower;<br>23.                    |  |
| 4040<br>A 4124             | -Ardtornish Point.                              | 56° 31.1' N<br>5° 45.2' W | <b>Fl.(2)W.R.G.</b><br>period 10s<br>fl. 0.3s, ec. 1.7s<br>fl. 0.3s, ec. 7.7s                      | 26<br>8       | W. 8<br>R. 6<br>G. 6 | White metal framework tower;<br>16.                    | G. 185°-301°, W.-308°, R.-<br>342°, W.-057°, R.-095°,<br>W.-109°, G.-154°. |
| 4042<br>A 4125             | -Lochaline.                                     | 56° 32.2' N<br>5° 46.5' W | <b>2 F.R.</b> (vert.)  | 13<br>4       | 3                    | Metal post.  | 2 meters apart.  |
| 4043<br>A 4125.3           | --Beacon.                                       | 56° 32.4' N<br>5° 46.5' W | <b>Dir.W.R.G.</b><br>period 6s   |               | 4                    | Orange concrete structure; 7.                          | Oc.G. 353°-356°, Oc.W.-<br>358°, Oc.R.-002°.                               |
| 4044<br>A 4126             | -Grey Rocks.                                    | 56° 29.8' N<br>5° 42.8' W | <b>Fl.W.</b><br>period 3s<br>fl. 0.3s, ec. 2.7s  | 36<br>11      | 6                    | White framework tower; 20.                             |  |
| 4048<br>A 4127             | Craignure Range, front.                         | 56° 28.3' N<br>5° 42.3' W | <b>F.R.</b>  | 32<br>10      |                      | Concrete mast.   |  |
| 4052<br>A 4127.1           | -Rear, 150 meters 244° from<br>front.           | 56° 28.2' N<br>5° 42.4' W | <b>F.R.</b>  | 40<br>12      |                      | Concrete mast.   |  |
| 4056<br>A 4174             | Duart Point, William Black<br>Memorial Tower.   | 56° 26.8' N<br>5° 38.8' W | <b>Fl.(3)W.R.</b><br>period 18s<br>fl. 0.5s, ec. 1.5s<br>fl. 0.5s, ec. 1.5s<br>fl. 0.5s, ec. 13.5s | 45<br>14      | W. 5<br>R. 3         | Gray granite building; 30.                             | W. 162°-261°, R.-275°, W.-<br>353°, R.-008.5°.                             |
| 4058<br>A 4174.5           | Loch Spelve.                                    | 56° 23.2' N<br>5° 42.0' W | <b>Fl.G.</b><br>period 5s  | 10<br>3       | 2                    | Metal pole, green triangular<br>daymark point up.      |  |
| LOCH CRENAN:               |   |                           |  |               |                      |  |  |
| 4060<br>A 4164             | -Off Airds Point.                               | 56° 32.2' N<br>5° 25.2' W | <b>Fl.W.R.G.</b><br>period 2s<br>fl. 0.3s, ec. 1.7s  | 6<br>2        | W. 3<br>R. 1<br>G. 1 | Red column.  | R. 196°-246°, W.-258°, G.-<br>041°, W.-058°, R.-093°,<br>W.-139°.          |
| 4064<br>A 4165             | -Eriska.  | 56° 32.2' N<br>5° 24.1' W | <b>Q.G.</b>  | 6<br>2        | 2                    | Green column.  | Visible 128°-329°.   |
| 4068<br>A 4172             | Lady's Rock.                                    | 56° 26.9' N<br>5° 37.0' W | <b>Fl.W.</b><br>period 6s<br>fl. 0.5s, ec. 5.5s  | 40<br>12      | 5                    | Red metal framework tower,<br>white concrete base; 39. | <b>AIS</b> (MMSI No 992351093).  |
| 4072<br>A 4170             | Lismore.  | 56° 27.3' N<br>5° 36.4' W | <b>Fl.W.</b><br>period 10s<br>fl. 0.2s, ec. 9.8s   | 103<br>31     | 17                   | White tower; 85.                                       | Visible 237°-208°.   |

| (1)<br>No.                 | (2)<br>Name and Location                                 | (3)<br>Position           | (4)<br>Characteristic  | (5)<br>Height | (6)<br>Range                   | (7)<br>Structure                                | (8)<br>Remarks                                    |
|----------------------------|--|---------------------------|--|---------------|--------------------------------|---|---|
| <b>SCOTLAND-WEST COAST</b> |  |                           |  |               |                                |   |   |
| 4076<br>A 4160             | Sgeir Bhuidhe.   | 56° 33.6' N<br>5° 24.6' W | <b>Fl.(2)W.R.</b><br>period 7s<br>fl. 0.5s, ec. 1.5s<br>fl. 0.5s, ec. 4.5s   | 26<br>8       | W.<br>R.<br>9<br>6             | White tower, concrete base; 26.                 | R. 184°-220°, W.-184°.                            |
| LOCH LINNHE:               |  |                           |  |               |                                |   |   |
| 4080<br>A 4132             | -Corran Point.   | 56° 43.3' N<br>5° 14.5' W | <b>Iso.W.R.G.</b><br>period 4s   | 38<br>12      | W.<br>R.<br>10<br>7<br>G.<br>7 | White tower; 43.                                | R. 132°-195°, W.-215°, G.-020°, W.-030°, R.-069°. |
| 4082<br>A 4132.4           | -Pier, head.   | 56° 43.4' N<br>5° 14.6' W | <b>Fl.R.</b><br>period 5s  | 23<br>7       | 3                              | Gray mast; 26.                                  |   |
| 4084<br>A 4133             | -Corran Narrows NE.                                      | 56° 43.6' N<br>5° 13.9' W | <b>Fl.W.</b><br>period 5s<br>fl. 0.5s, ec. 4.5s                              | 14<br>4       | 4                              | White metal framework tower; 13.                | Visible 002°-214°.                                |
| 4092<br>A 4140             | -Corpach, entrance to Caledonian Canal lock.             | 56° 50.5' N<br>5° 07.4' W | <b>Iso.W.R.G.</b><br>period 4s   | 21<br>6       | 5                              | White tower, black top; 20.                     | G. 287°-310°, W.-335°, R.-030°.                   |
| 4093<br>A 4150             | -Glensanda Quarry Berth, jetty, SW. corner.              | 56° 34.1' N<br>5° 32.0' W | <b>Fl.R.</b><br>period 3s<br>fl. 0.6s, ec. 2.4s                              | 16<br>5       | 4                              | Metal post; 7.                                  |   |
| 4094<br>A 4150.2           | --NE. corner.  | 56° 34.1' N<br>5° 31.9' W | <b>Fl.R.</b><br>period 3s<br>fl. 0.6s, ec. 2.4s                              | 16<br>5       | 4                              | Metal post; 7.                                  |   |
| 4095<br>A 4151             | -Breakwater, head.                                       | 56° 33.9' N<br>5° 32.3' W | <b>2 F.R.</b> (vert.)  | 16<br>5       | 3                              | Metal post; 10.                                 | 1 meter apart.                                    |
| DUNSTAFFNAGE BAY:          |  |                           |  |               |                                |   |   |
| 4096<br>A 4175.4           | -Pier, NE. head.   | 56° 27.2' N<br>5° 26.2' W | <b>2 F.G.</b> (vert.)  | 13<br>4       | 2                              | Pontoon.  |   |
| OBAN:                      |  |                           |  |               |                                |   |   |
| 4100<br>A 4176             | -Kerrera, Northspit, W. side of entrance.                | 56° 25.5' N<br>5° 29.6' W | <b>Fl.R.</b><br>period 3s<br>fl. 0.3s, ec. 2.7s                              | 30<br>9       | 5                              | White column, red bands; 33.                    |   |
| 4104<br>A 4178             | -Dunollie.   | 56° 25.4' N<br>5° 29.0' W | <b>Fl.(2)W.R.G.</b><br>period 6s<br>fl. 0.6s, ec. 1s<br>fl. 0.6s, ec. 3.8s   | 22<br>7       | W.<br>R.<br>8<br>6<br>G.<br>6  | Stone tower; 20.                                | G. 351°-020°, W.-047°, R.-120°, W.-138°, G.-143°. |
| 4105<br>A 4179             | -Rubh'a' Chruidh.  | 56° 25.3' N<br>5° 29.3' W | <b>Q.R.</b>  | 10<br>3       | 4                              | White post, platform; 10.                       |   |
| 4108<br>A 4180             | -Middle of N. pier.                                      | 56° 24.9' N<br>5° 28.5' W | <b>2 F.G.</b> (vert.)  | 27<br>8       | 4                              | Metal column; 20.                               |   |
| 4112<br>A 4183             | -N. Lighthouse, Commissioner's pier.                     | 56° 24.7' N<br>5° 28.9' W | <b>2 F.G.</b> (vert.)  | 23<br>7       | 4                              | Metal post; 13.                                 |   |
| 4120<br>A 4186             | Sgeirean Dubha, Sound of Kerrera, 274 meters from shore. | 56° 22.8' N<br>5° 32.3' W | <b>Fl.(2)W.</b><br>period 12s<br>fl. 0.5s, ec. 1.5s<br>fl. 0.5s, ec. 9.5s    | 24<br>7       | 5                              | White metal framework tower, concrete base; 23. |   |
| 4128<br>A 4190             | Fladda.  | 56° 14.9' N<br>5° 40.8' W | <b>Fl.(2)W.R.G.</b><br>period 9s<br>fl. 0.4s, ec. 1.6s<br>fl. 0.4s, ec. 6.6s | 42<br>13      | W.<br>R.<br>11<br>9<br>G.<br>9 | White tower; 43.                                | R. 169°-186°, W.-337°, G.-344°, W.-356°, R.-026°. |
| 4132<br>A 4192             | Dubh Sgeir.  | 56° 14.8' N<br>5° 40.2' W | <b>Fl.W.R.G.</b><br>period 6s<br>fl. 0.5s, ec. 5.5s                          | 30<br>9       | W.<br>R.<br>6<br>4<br>G.<br>4  | White framework tower; 23.                      | W. 000°-010°, R.-028°, W.-199°, G.-000°.          |
| RACON                      |  |                           |  | <b>M(- -)</b> |                                | 5   | (3 & 10cm).                                       |

| (1)<br>No.                 | (2)<br>Name and Location                    | (3)<br>Position           | (4)<br>Characteristic   | (5)<br>Height | (6)<br>Range         | (7)<br>Structure                    | (8)<br>Remarks                             |
|----------------------------|---|---------------------------|---|---------------|----------------------|-------------------------------------|--|
| <b>SCOTLAND-WEST COAST</b> |   |                           |   |               |                      |                                     |  |
| 4136<br>A 4196             | Isles of the Sea.                           | 56° 13.0' N<br>5° 49.1' W | <b>Fl.W.</b><br>period 6s<br>fl. 0.5s, ec. 5.5s                             | 79<br>24      | 9                    | White metal framework tower;<br>16. | Partially obscured 215°-240°.              |
| 4140<br>A 4200             | Scalasaig, Colonsay, S. of<br>harbor, head. | 56° 04.0' N<br>6° 10.9' W | <b>Fl.(2)W.R.</b><br>period 10s<br>fl. 0.5s, ec. 1.5s<br>fl. 0.5s, ec. 7.5s | 26<br>8       | W. 8<br>R. 6         | White metal framework tower;<br>16. | R. 108°-230°, W.-337°, R.-<br>354°.        |
| 4144<br>A 4202             | -Pier head Range, front.                    | 56° 04.1' N<br>6° 11.0' W | <b>Iso.G.</b><br>period 4s  | 26<br>8       | 2                    | Concrete column; 19.                | For use of ferries only.                   |
| 4148<br>A 4202.1           | --Rear, 60 meters 262° from<br>front.       | 56° 04.1' N<br>6° 11.1' W | <b>Iso.G.</b><br>period 4s  | 34<br>10      | 2                    | Concrete column; 27.                |  |
| LOCH MELFORT:              |   |                           |   |               |                      |                                     |  |
| 4150<br>A 4205             | -Fearnach Bay, pier.                        | 56° 16.1' N<br>5° 30.2' W | <b>F.R.</b>   | 20<br>6       | 3                    | Metal mast; 30.                     | Shown Apr. 1 to Oct. 31.<br>Private light. |
| 4151<br>A 4206             | -Craobh Marina.                             | 56° 12.8' N<br>5° 33.5' W | <b>Iso.W.R.G.</b><br>period 5s  | 34<br>10      | W. 5<br>R. 3<br>G. 3 | Metal structure.                    | G. 114°-162°, W.-183°, R.-<br>200°.        |
| SOUND OF JURA:             |   |                           |   |               |                      |                                     |  |
| 4152<br>A 4208             | -Reisa an t-Struith.                        | 56° 07.8' N<br>5° 38.9' W | <b>Fl.(2)W.</b><br>period 12s<br>fl. 0.5s, ec. 1.5s<br>fl. 0.5s, ec. 9.5s   | 41<br>12      | 7                    | White metal framework tower;<br>23. |  |
| -Crinan Canal:             |   |                           |   |               |                      |                                     |  |
| 4156<br>A 4212             | --27 meters E. of lock entrance.            | 56° 05.5' N<br>5° 33.3' W | <b>Fl.W.G.</b><br>period 3s<br>fl. 0.3s, ec. 2.7s                           | 26<br>8       | 4                    | White tower, red band; 21.          | W. 114°-146°, G.-280°.                     |
| 4160<br>A 4214             | --E. wing of lock entrance.                 | 56° 05.5' N<br>5° 33.3' W | <b>2 F.R.</b> (vert.)   | 41<br>12      |                      | Mast; 23.                           |  |
| 4164<br>A 4218             | --W. wing of lock entrance.                 | 56° 05.5' N<br>5° 33.3' W | <b>2 F.G.</b> (vert.)   | 41<br>12      |                      | Mast; 23.                           |  |
| 4168<br>A 4226             | -Ruadh Sgeir.                               | 56° 04.3' N<br>5° 39.8' W | <b>Fl.W.</b><br>period 6s<br>fl. 0.5s, ec. 5.5s                             | 49<br>15      | 9                    | White tower; 23.                    |  |
| 4172<br>A 4230             | -Skervuile.                                 | 55° 52.5' N<br>5° 49.9' W | <b>Fl.W.</b><br>period 15s<br>fl. 1s, ec. 14s                               | 73<br>22      | 9                    | White tower; 83.                    |  |
| 4176<br>A 4230.6           | -Eilean nan Gabhar, S. point.               | 55° 50.0' N<br>5° 56.2' W | <b>Fl.W.</b><br>period 5s<br>fl. 0.5s, ec. 4.5s                             | 30<br>9       | 8                    | White metal framework tower;<br>15. | Visible 225°-010°.                         |
| 4180<br>A 4232             | -Na Cuiltean, off SE. point of<br>Jura.     | 55° 48.6' N<br>5° 54.9' W | <b>Fl.W.</b><br>period 10s<br>fl. 0.5s, ec. 9.5s                            | 30<br>9       | 9                    | White metal framework tower;<br>16. |  |
| 4182<br>A 4259             | Gahmna Gigha.                               | 55° 43.8' N<br>5° 41.1' W | <b>Fl.(2)W.</b><br>period 6s<br>fl. 0.3s, ec. 1.4s<br>fl. 0.3s, ec. 4s      | 23<br>7       | 5                    | Concrete column; 16.                |  |
| WEST LOCH TARBERT:         |   |                           |   |               |                      |                                     |  |
| 4184<br>A 4260             | -Dunskeig Bay.                              | 55° 45.2' N<br>5° 35.0' W | <b>Q.(2)W.</b><br>period 10s  | 36<br>11      | 8                    | Silver metal post; 10.              |  |
| 4188<br>A 4262             | -Eileen Triaghe.                            | 55° 45.4' N<br>5° 35.7' W | <b>Fl.(2)R.</b><br>period 5s  | 16<br>5       | 3                    | Red post.                           | <b>Radar reflector.</b>                    |
| 4192<br>A 4263             | -Corran.                                    | 55° 46.1' N<br>5° 34.3' W | <b>Q.G.</b>   | 10<br>3       | 3                    | Green post.                         | <b>Radar reflector.</b>                    |

| (1)<br>No.                 | (2)<br>Name and Location   | (3)<br>Position           | (4)<br>Characteristic  | (5)<br>Height | (6)<br>Range         | (7)<br>Structure                                  | (8)<br>Remarks  |
|----------------------------|--|---------------------------|--|---------------|----------------------|---|---|
| <b>SCOTLAND-WEST COAST</b> |  |                           |  |               |                      |   |   |
| 4196<br>A 4264             | -Sgeir Mhein.  | 55° 47.1' N<br>5° 32.4' W | <b>Q.R.</b>  | 10<br>3       | 3                    | Red post.   | <b>Radar reflector.</b>                                   |
| 4200<br>A 4265             | -Black Rocks.  | 55° 47.9' N<br>5° 30.2' W | <b>Q.G.</b>  |               | 3                    | Green post.                                       | <b>Radar reflector.</b>                                   |
| 4204<br>A 4266.4           | -Kennacraig, ferry terminal,<br>head.                              | 55° 48.4' N<br>5° 29.0' W | <b>2 F.G.</b> (vert.)  | 26<br>8       | 3                    | Silver metal post, dolphin; 7.                    | 1 meter apart.  |
| 4206<br>A 4268             | Machrihanish Airfield,<br>AVIATION LIGHT.                          | 55° 26.4' N<br>5° 42.7' W | <b>Mo.(MH)R.</b>   | 174<br>53     |                      | Identifying beacon.                               | Occasional.   |
| 4208<br>A 4236             | <b>Rhuda Mhail.</b>  | 55° 56.2' N<br>6° 07.4' W | <b>Fl.(3)W.</b><br>period 15s  | 148<br>45     | 19                   | White tower; 113.                                 |   |
| 4212<br>A 4237             | Carragh an t'Struith.  | 55° 52.3' N<br>6° 05.8' W | <b>Fl.W.</b><br>period 3s<br>fl. 0.3s, ec. 2.7s  | 25<br>8       | 9                    | White tower; 16.                                  | Visible 354°-180°.  |
| 4216<br>A 4238             | Carraig Mhor.  | 55° 50.4' N<br>6° 06.1' W | <b>Fl.(2)W.R.</b><br>period 6s<br>fl. 0.3s, ec. 1.7s<br>fl. 0.3s, ec. 3.7s                       | 23<br>7       | W. 8<br>R. 6         | White tower; 23.                                  | R. 161°-175°, W.-347°, R.-<br>028°.                       |
| 4220<br>A 4240             | McArthur's Head.   | 55° 45.8' N<br>6° 02.9' W | <b>Fl.(2)W.R.</b><br>period 10s  | 128<br>39     | W. 13<br>R. 10       | White tower; 43.                                  | W. 139°-159°, R.-244°, W.-<br>088°.                       |
| 4224<br>A 4242             | Chuirn, about 1.9 km S. of<br>Ardmore Point.                       | 55° 40.1' N<br>6° 01.2' W | <b>Fl.(3)W.</b><br>period 18s<br>fl. 0.3s, ec. 1.7s<br>fl. 0.3s, ec. 1.7s<br>fl. 0.3s, ec. 13.7s | 84<br>26      | 8                    | White tower; 16.                                  | Visible 150°-040°.  |
| 4228<br>A 4248             | Port Ellen, Carraig Fhada Point,<br>W. entrance of harbor.         | 55° 37.2' N<br>6° 12.7' W | <b>Fl.W.R.G.</b><br>period 3s<br>fl. 0.3s, ec. 2.7s  | 66<br>20      | W. 8<br>R. 6<br>G. 6 | White square tower; 56.                           | W. 140°-248°, G.-311°, W.-<br>340°, R.-030°.              |
| 4232<br>A 4256             | <b>Rhinns of Islay.</b>  | 55° 40.4' N<br>6° 30.8' W | <b>Fl.W.</b><br>period 5s<br>fl. 0.2s, ec. 4.8s  | 150<br>46     | 24                   | White tower; 95.                                  | Visible 256°-184°.  |
| 4236<br>A 4254             | Loch Indaal, Ruhda an Duin,<br>726 meters N. of Port<br>Charlotte. | 55° 44.7' N<br>6° 22.3' W | <b>Fl.(2)W.R.</b><br>period 7s<br>fl. 0.5s, ec. 1.5s<br>fl. 0.5s, ec. 4.5s                       | 50<br>15      | W. 11<br>R. 8        | White stone tower; 42.                            | R. 197°-218°, W.-249°, R.-<br>350°, W.-036°.              |
| 4240<br>A 4252             | -Bruichladdich, pier, head.  | 55° 45.8' N<br>6° 21.6' W | <b>2 F.R.</b> (vert.)  | 20<br>6       | 5                    | Column; 13.                                       |   |
| 4244<br>A 4272             | <b>Mull of Kintyre.</b>  | 55° 18.6' N<br>5° 48.2' W | <b>Fl.(2)W.</b><br>period 20s<br>fl. 0.4s, ec. 1.5s<br>fl. 0.4s, ec. 17.7s                       | 297<br>91     | 24                   | White tower, white building; 38.                  | Visible 347°-178°.  |
| 4248<br>A 4274             | <b>Sanda Island.</b>   | 55° 16.5' N<br>5° 35.0' W | <b>Fl.W.</b><br>period 10s<br>fl. 0.3s, ec. 9.7s   | 165<br>50     | 15                   | White tower, buildings; 49.                       | Visible 242°-121°.<br><b>AIS</b> (MMSI No 992351116).     |
| 4252<br>A 4276             | <b>Davaar.</b>   | 55° 25.7' N<br>5° 32.4' W | <b>Fl.(2)W.</b><br>period 10s<br>fl. 0.3s, ec. 1.7s<br>fl. 0.3s, ec. 7.7s                        | 121<br>37     | 15                   | White tower on N. side of<br>balcony; 66.         | Visible 073°-330°.  |
| <b>CAMPBELTOWN:</b>        |  |                           |  |               |                      |   |   |
| 4256<br>A 4279             | -Kilkerran Range, front.   | 55° 25.0' N<br>5° 35.4' W | <b>F.Y.</b>  | 24<br>7       | 6                    | Beacon, orange chevron<br>daymark point up; 20.   | Sodium vapor discharge lamp.<br>Difficult to distinguish. |
| 4260<br>A 4279.1           | --Rear, 250 meters 240°18'<br>from front.                          | 55° 24.9' N<br>5° 35.6' W | <b>F.Y.</b>  | 91<br>28      | 6                    | Beacon, orange chevron<br>daymark point down; 23. | Sodium vapor discharge lamp.<br>Difficult to distinguish. |
| 4264<br>A 4284             | -Old pier, head.   | 55° 25.5' N<br>5° 36.0' W | <b>2 F.G.</b> (vert.)  | 22<br>7       | 4                    | Column; 17.                                       |   |
| 4268<br>A 4282             | -New pier, head.   | 55° 25.5' N<br>5° 35.9' W | <b>2 F.R.</b> (vert.)  | 17<br>5       | 4                    | Mast; 12.   |   |

| (1)<br>No.                     | (2)<br>Name and Location                   | (3)<br>Position           | (4)<br>Characteristic  | (5)<br>Height | (6)<br>Range | (7)<br>Structure   | (8)<br>Remarks  |
|--------------------------------|--|---------------------------|--|---------------|--------------|--|---|
| <b>SCOTLAND-WEST COAST</b>     |  |                           |  |               |              |  |   |
| 4272<br>A 4290                 | Port Crannaich, breakwater, head.          | 55° 35.6' N<br>5° 27.8' W | <b>Fl.R.</b><br>period 10s   | 20<br>6       | 6            | Metal column; 10.  |   |
| 4273<br>A 4291                 | Loch Ranza. ferry terminal. NW corner.     | 55° 42.5' N<br>5° 18.1' W | <b>2 F.G.</b> (vert.)  | 13<br>4       | 3            | Metal Pole.  | 1 meter apart.  |
| LOCH FYNE:                     |  |                           |  |               |              |  |   |
| 4276<br>A 4296                 | -Sgat More, S. head.                       | 55° 50.9' N<br>5° 18.5' W | <b>Fl.W.</b><br>period 3s<br>fl. 0.7s, ec. 2.3s  | 30<br>9       | 12           | White round tower, concrete base; 26.                              |   |
| 4280<br>A 4297                 | -Portavadie, jetty.                        | 55° 52.5' N<br>5° 19.2' W | <b>2 F.G.</b> (vert.)  | 20<br>6       | 4            | Pole.  | 2 meters apart.   |
| 4282<br>A 4297.5               | -Eilean na Beithe.                         | 55° 52.7' N<br>5° 19.6' W | <b>Fl.W.R.G.</b><br>period 3s  | 23<br>7       | 5            | Metal post, concrete base; 10.                                     | G. 036°-056°, W.-078°, R.-106°.   |
| 4284<br>A 4298                 | -East Loch Tarbert, Madadh Maol.           | 55° 52.0' N<br>5° 24.2' W | <b>Fl.R.</b><br>period 2.5s<br>fl. 0.5s, ec. 2s  | 13<br>4       | 3            | Red column.  |   |
| 4288<br>A 4299                 | --Eilean a'Choic.                          | 55° 52.0' N<br>5° 24.3' W | <b>Q.G.</b>  | 10<br>3       | 2            | Green column.  |   |
| 4296<br>A 4304                 | -Ardrihaig, breakwater, head.              | 56° 00.8' N<br>5° 26.6' W | <b>L.Fl.W.R.G.</b><br>period 6s<br>fl. 2s, ec. 4s  | 30<br>9       | 4            | White tower; 20.   | G. 287°-339°, W.-350°, R.-035°. Freight pier floodlit. Entrance to lock marked by F.G. and F.R. lights. |
| 4300<br>A 4308                 | -Otter Spit.                               | 56° 00.6' N<br>5° 21.1' W | <b>Fl.G.</b><br>period 3s<br>fl. 0.7s, ec. 2.3s  | 23<br>7       | 8            | Green tank, concrete pyramid; 36.                                  |   |
| 4304<br>A 4310                 | Glas Eilean.                               | 56° 01.1' N<br>5° 21.2' W | <b>Fl.R.</b><br>period 5s<br>fl. 1s, ec. 4s  | 38<br>12      | 7            | Red column, pedestal.  |   |
| 4308<br>A 4314                 | -Paddy Rock, Sgeir an Eirionnaich.         | 56° 06.5' N<br>5° 13.5' W | <b>Fl.W.R.</b><br>period 3s<br>fl. 0.7s, ec. 2.3s  | 22<br>7       | 8            | Black metal framework tower, black round tower, white stripes; 23. | R. 044°-087°, W.-192°, R.-210°, W.-044°.  |
| 4316<br>A 4326                 | <b>Pladda.</b>                             | 55° 25.5' N<br>5° 07.1' W | <b>Fl.(3)W.</b><br>period 30s<br>fl. 0.7s, ec. 3.1s<br>fl. 0.7s, ec. 3.1s<br>fl. 0.7s, ec. 21.7s | 130<br>40     | 17           | White tower; 95.   |   |
| 4320<br>A 4330                 | <b>Pillar Rock Point.</b>                  | 55° 31.0' N<br>5° 03.7' W | <b>Fl.(2)W.</b><br>period 20s<br>fl. 0.5s, ec. 2s<br>fl. 0.5s, ec. 17s                           | 124<br>38     | 18           | White square tower; 75.  |   |
| 4324<br>A 4336                 | Brodick Bay, ferry terminal.               | 55° 34.7' N<br>5° 08.1' W | <b>2 F.R.</b> (vert.)  | 20<br>6       | 4            | Gray post.   |   |
| 4324.5<br>A 4336.3             | -Brodick Pier.                             | 55° 34.6' N<br>5° 08.4' W | <b>2 F.R.</b> (vert.)  | 13<br>4       | 4            | Gray post.   |   |
| 4328<br>A 4332                 | -SW. extremity of island.                  | 55° 30.7' N<br>5° 04.2' W | <b>Fl.G.</b><br>period 3s<br>fl. 0.6s, ec. 2.4s  | 46<br>14      | 6            | White tower; 56.   | Visible 282°-147°.  |
| <b>SCOTLAND-FIRTH OF CLYDE</b> |  |                           |  |               |              |  |   |
| 4332<br>A 4344                 | Runnaneun Point.                           | 55° 43.8' N<br>5° 00.2' W | <b>Fl.R.</b><br>period 6s<br>fl. 1s, ec. 5s  | 26<br>8       | 12           | White metal tower; 25.   |   |
| 4336<br>A 4346                 | Cumbrae, W. side of Little Cumbrae Island. | 55° 43.2' N<br>4° 58.0' W | <b>Fl.W.</b><br>period 6s  | 92<br>28      | 14           | White tower; 36.   | Visible 334°-193°.  |
| 4338<br>A 4346.5               | -Sheanawally Point.                        | 55° 44.1' N<br>4° 56.4' W | <b>Fl.W.</b><br>period 10s   | 20<br>6       | 5            | Metal post.  | Visible 061°-300°.  |



| (1)<br>No.                     | (2)<br>Name and Location                         | (3)<br>Position           | (4)<br>Characteristic                            | (5)<br>Height | (6)<br>Range | (7)<br>Structure                           | (8)<br>Remarks   |
|--------------------------------|--|---------------------------|--|---------------|--------------|--|--|
| <b>SCOTLAND-FIRTH OF CLYDE</b> |  |                           |  |               |              |  |  |
| MILLPORT:                      |  |                           |  |               |              |  |  |
| 4340<br>A 4348                 | -W. extremity of outer islet.                    | 55° 44.9' N<br>4° 55.6' W | <b>Q.G.</b>                                      | 18<br>5       | 2            | Post.                                      |  |
| 4344<br>A 4350                 | -Pier, head, Range, front.                       | 55° 45.0' N<br>4° 55.9' W | <b>F.R.</b>                                      | 24<br>7       | 5            | Column; 20.                                |  |
| 4348<br>A 4352                 | --Rear, on shore, 137 meters<br>333° from front. | 55° 45.1' N<br>4° 55.9' W | <b>F.R.</b>                                      | 29<br>9       | 5            | Column; 23.                                |  |
| 4348.2<br>A 4355               | -Hunterston Ore/Coal Jetty. NE.<br>corner        | 55° 45.3' N<br>4° 52.6' W | <b>2 F.G.</b> (vert.)                            | 36<br>11      | 5            | Green metal column.                        | 3 meters apart.  |
| 4348.4<br>A 4355.2             | --SW. corner.                                    | 55° 45.1' N<br>4° 52.9' W | <b>2 F.G.</b> (vert.)                            | 36<br>11      | 5            | Green metal column.                        | 3 meters apart.  |
| 4348.6<br>A 4358               | -NATO Pier, head                                 | 55° 46.1' N<br>4° 51.8' W | <b>2 F.G.</b> (vert.)                            |               |              |  |  |
| 4348.8<br>A 4358.2             | --Elbow  | 55° 46.0' N<br>4° 51.8' W | <b>2 F.G.</b> (vert.)                            |               |              |  |  |
| 4349<br>A 4359                 | Largs Marina, S. breakwater<br>head.             | 55° 46.4' N<br>4° 51.7' W | <b>Oc.G.</b><br>period 10s<br>lt. 7s, ec. 3s     | 12<br>4       | 4            | STARBOARD (A)<br>G, column, topmark; 7.    |  |
| 4350<br>A 4359.2               | -W. Breakwater, head.                            | 55° 46.4' N<br>4° 51.7' W | <b>Oc.R.</b><br>period 10s<br>lt. 7s, ec. 3s     | 12<br>4       | 4            | PORT (A)<br>R, column, topmark; 7.         |  |
| 4352<br>A 4360                 | Largs, N. pier, head.                            | 55° 47.7' N<br>4° 52.3' W | <b>2 F.G.</b> (vert.)                            | 20<br>6       | 5            | Metal post.                                | 2 meters apart.  |
| 4354<br>A 4361                 | Ascog Patches, No 13.                            | 55° 49.7' N<br>5° 00.2' W | <b>Fl.(2)W.</b><br>period 10s                    | 16<br>5       | 5            | ISOLATED DANGER<br>BRB, pile, topmark; 23. |  |
| 4356<br>A 4362                 | <b>Toward Point.</b>                             | 55° 51.7' N<br>4° 58.8' W | <b>Fl.W.</b><br>period 10s<br>fl. 0.2s, ec. 9.8s | 70<br>21      | 22           | White tower; 63.                           |  |
| ROTHESAY:                      |  |                           |  |               |              |  |  |
| 4364<br>A 4370                 | --W. head.                                       | 55° 50.3' N<br>5° 03.3' W | <b>2 F.R.</b> (vert.)                            | 33<br>10      | 5            | Column; 26.                                | 1 meter apart.<br><b>Bell:</b> Sounded during<br>reduced visibility. |
| 4372<br>A 4374                 | Loch Striven, jetty, S. head.                    | 55° 53.7' N<br>5° 02.9' W | <b>2 F.G.</b> (vert.)                            |               |              |  |  |
| 4376<br>A 4374.2               | -N. head.  | 55° 53.8' N<br>5° 02.9' W | <b>2 F.G.</b> (vert.)                            |               |              |  |  |
| 4380<br>A 4398                 | Gantock Beacon.                                  | 55° 56.4' N<br>4° 55.1' W | <b>Fl.R.</b><br>period 6s<br>fl. 0.8s, ec. 5.2s  | 39<br>12      | 6            | White round tower; 44.                     |  |
| DUNOON:                        |  |                           |  |               |              |  |  |
| 4384<br>A 4400.1               | -Pier, S. head.                                  | 55° 56.7' N<br>4° 55.2' W | <b>2 F.R.</b> (vert.)                            | 20<br>6       | 6            | Metal pole.                                | 2 meters apart.  |
| 4388<br>A 4400.2               | -Jetty, head.                                    | 55° 56.8' N<br>4° 55.3' W | <b>2 F.R.</b> (vert.)                            | 17<br>5       | 6            | Column; 6.                                 |  |
| 4392<br>A 4392                 | Wemyss Bay.                                      | 55° 52.6' N<br>4° 53.5' W | <b>2 F.G.</b> (vert.)                            | 23<br>7       | 5            | Metal mast; 39.                            | 2 meters apart.  |
| 4396<br>A 4405                 | McInroy's Point.                                 | 55° 57.1' N<br>4° 51.3' W | <b>2 F.G.</b> (vert.)                            | 16<br>5       | 6            | Gray metal column.                         | 2 meters apart.  |
| 4400<br>A 4406                 | Hunter's Quay, NW. corner<br>pierhead.           | 55° 58.3' N<br>4° 54.5' W | <b>2 F.R.</b> (vert.)                            | 19<br>6       | 6            | Gray metal column.                         | 2 meters apart.  |

| (1)<br>No.                     | (2)<br>Name and Location               | (3)<br>Position           | (4)<br>Characteristic                           | (5)<br>Height | (6)<br>Range | (7)<br>Structure   | (8)<br>Remarks   |
|--------------------------------|--|---------------------------|---|---------------|--------------|--|--|
| <b>SCOTLAND-FIRTH OF CLYDE</b> |  |                           |   |               |              |  |  |
| 4403<br>A 4408                 | Barons Point, No 3.                    | 55° 59.2' N<br>4° 51.0' W | <b>Fl.R.</b><br>period 5s                       | 16<br>5       | 2            | Black metal post.  |  |
| 4404<br>A 4404                 | Cloch Point.                           | 55° 56.5' N<br>4° 52.7' W | <b>Fl.W.</b><br>period 3s<br>fl. 0.6s, ec. 2.4s | 79<br>24      | 8            | White round tower, black band,<br>white dwellings.       |  |
| GOUROCK BAY:                   |  |                           |   |               |              |  |  |
| 4416<br>A 4414                 | -Kempock Point.                        | 55° 57.8' N<br>4° 49.1' W | <b>Fl.G.</b><br>period 6s                       | 36<br>11      | 3            | Metal column; 12.  | Port closure signals on roof of<br>Navy building 0.9 mile E.   |
| 4424<br>A 4409                 | -Ravenrock Point.                      | 56° 02.1' N<br>4° 54.4' W | <b>Fl.W.</b><br>period 4s<br>fl. 0.7s, ec. 3.3s | 39<br>12      | 10           | White metal framework tower,<br>white column; 26.        |  |
|                                | -204°.                                 |                           | <b>Dir.W.R.G.</b>                               | 29<br>9       |              |  | F.R. 201°30'-203°, Al.W.R.-<br>203°30' (W. phase<br>increasing with bearing),<br>F.W.-204°30', Al.W.G.-<br>205° (G. phase increasing<br>with bearing), F.G.-<br>206°30'. |
| 4428<br>A 4411                 | -Port Dornaige.                        | 56° 03.8' N<br>4° 53.6' W | <b>Fl.W.</b><br>period 6s<br>fl. 0.7s, ec. 5.3s | 27<br>8       | 11           | White column; 13.  | Visible 206°-026°.   |
| 4429<br>A 4410.3               | -Jetty, S. corner.                     | 56° 03.9' N<br>4° 52.6' W | <b>L.Fl.G.</b><br>period 12s<br>fl. 2s, ec. 10s | 19<br>6       | 5            | Metal pole.  | 3 F.G. (vert.) port closure<br>signals close N.  |
| 4430<br>A 4410.32              | --N. corner.                           | 56° 04.0' N<br>4° 52.5' W | <b>F.G.</b>                                     | 19<br>6       | 5            | Metal pole.  | Occasional.  |
| 4432<br>A 4412.8               | -Finnart No 2 Jetty, S. head.          | 56° 06.7' N<br>4° 50.4' W | <b>2 F.G.</b> (vert.)                           | 19<br>6       |              |  |  |
| 4436<br>A 4412.7               | --N. head Range, front.                | 56° 06.7' N<br>4° 50.4' W | <b>2 F.G.</b> (vert.)                           | 19<br>6       |              |  |  |
| 4436.1<br>A 4412.71            | ---Rear, 82 meters 066° from<br>front. | 56° 06.7' N<br>4° 50.4' W | <b>Q.G.</b>                                     | 26<br>8       |              |  | Visible 051°-081°.   |
| 4440<br>A 4411.4               | -Dog Rock (Carraig nan Ron).           | 56° 06.0' N<br>4° 51.7' W | <b>Fl.W.</b><br>period 2s<br>fl. 0.7s, ec. 1.3s | 23<br>7       | 11           | White column; 17.  |  |
| LOCH GOIL:                     |  |                           |   |               |              |  |  |
| 4441<br>A 4411.6               | -The Perch Range, front.               | 56° 06.9' N<br>4° 54.3' W | <b>Dir.W.R.G.</b>                               | 9<br>3        | 5            | Metal column, orange<br>rectangular daymark.             | F.G. 311°-317°, F.W.-320°,<br>F.R.-322°.   |
|                                |  |                           | <b>Fl.R.</b><br>period 3s                       | 9<br>3        | 3            |  | Visible 187°-322°.<br>Occasional.  |
| 4441.1<br>A 4411.61            | --Rear, 700 meters 318° from<br>front. | 56° 07.2' N<br>4° 54.7' W | <b>F.W.</b>                                     | 23<br>7       | 5            | Metal column, orange<br>rectangular daymark; 10.         | Visible 312°-322°30'.  |
| 4442<br>A 4411.8               | -Rubha Ardnaheìn.                      | 56° 06.2' N<br>4° 53.6' W | <b>Fl.R.</b><br>period 5s                       | 9<br>3        | 3            | Metal column, orange<br>rectangular daymark; 10.         | Visible 132°-312°.<br>Occasional.  |
| 4444<br>A 4412                 | -Cnap Point Range, front.              | 56° 07.4' N<br>4° 50.0' W | <b>Q.W.</b>                                     | 26<br>8       | 10           | White column; 17.  |  |
| 4444.1<br>A 4412.1             | --Rear, 87 meters 031° from<br>front.  | 56° 07.4' N<br>4° 49.9' W | <b>F.W.</b>                                     | 43<br>13      |              | White metal framework tower,<br>red rectangular daymark. |  |
| 4448<br>A 4413.6               | -Strone.                               | 56° 07.7' N<br>4° 49.1' W | <b>Fl.G.</b><br>period 3s<br>fl. 0.3s, ec. 2.7s | 9<br>3        | 3            | Green metal post.  | <b>Radar reflector.</b>  |
| 4452<br>A 4413.7               | -Jetty, head.                          | 56° 07.8' N<br>4° 49.1' W | <b>2 F.G.</b> (vert.)                           |               |              | Column; 6.   |  |
| 4456<br>A 4413.72              | --Elbow.                               | 56° 07.9' N<br>4° 49.1' W | <b>2 F.G.</b> (vert.)                           |               |              | Column; 6.   |  |

| (1)<br>No.                     | (2)<br>Name and Location                                      | (3)<br>Position           | (4)<br>Characteristic   | (5)<br>Height | (6)<br>Range            | (7)<br>Structure  | (8)<br>Remarks   |
|--------------------------------|---|---------------------------|---|---------------|-------------------------|---|--|
| <b>SCOTLAND-FIRTH OF CLYDE</b> |   |                           |   |               |                         |   |  |
| 4464<br>A 4420                 | Rosneath Patch, S. head.                                      | 55° 58.5' N<br>4° 47.4' W | <b>Fl.(2)W.</b><br>period 10s<br>fl. 0.8s, ec. 1.4s<br>fl. 0.8s, ec. 7s | 18<br>5       | 10                      | ISOLATED DANGER<br>BRB, pile, topmark; 23.                  |  |
| 4466<br>A 4421                 | <b>-Beacon 8N</b> , 080°.                                     | 55° 59.1' N<br>4° 44.2' W | <b>Dir.W.R.G.</b>   | 13<br>4       | W. 16<br>R. 13<br>G. 13 | SPECIAL<br>Y, pile, "X" topmark.                            | F.G. 075°-077°30', Al.W.G.-<br>079°30', F.W.-080°30',<br>Al.W.R.-082°30', F.R.-<br>085°. |
|                                | -138°.  |                           | <b>Dir.W.R.G.</b>   |               |                         |   | F.G. 132°-134°, Al.W.G.-137°,<br>F.W.-139°, Al.W.R.-142°.                                |
|                                | -Passing Lt.  |                           | <b>Fl.Y.</b><br>period 3s   | 20<br>6       | 3                       |   |  |
| 4472<br>A 4421.2               | -Beacon No 1.   | 55° 59.1' N<br>4° 43.9' W | <b>V.Q.(4)Y.</b><br>period 5s   | 30<br>9       |                         | SPECIAL<br>Y, beacon, "X" topmark.                          | In line 080° with Beacon 8N.   |
| 4475<br>A 4422                 | <b>Rosneath Patch Beacon 7N</b> ,<br>Range, front.            | 56° 00.1' N<br>4° 45.4' W | <b>Dir.W.R.G.</b>   | 16<br>5       | W. 16<br>R. 13<br>G. 13 | Green pile structure, green<br>triangular daymark point up. | Al.W.G. 353°-355°, F.W.-357°,<br>Al.W.R.-000°, F.R.-002°.                                |
|                                | 115°.   |                           | <b>Dir.W.R.G.</b>   |               |                         |   | Al.W.G. 111°-114°, F.W.-116°,<br>Al.W.R.-119°, F.R.-121°.                                |
|                                | Passing Lt.   |                           | <b>Oc.G.</b><br>period 6s   | 20<br>6       | 3                       |   |  |
| 4476<br>A 4422.1               | Ardencaple Castle, rear, about<br>940 meters 356° from front. | 56° 00.5' N<br>4° 45.4' W | <b>2 F.G.</b> (vert.)   | 86<br>26      | 12                      | Stone tower on NW. corner of<br>castle; 46.                 | Visible 335°-020°.<br>3 meters apart.  |
| 4490<br>A 4423.5               | <b>Rosneath Bay</b> , 149°.                                   | 56° 00.1' N<br>4° 46.7' W | <b>Dir.W.R.G.</b>   | 30<br>9       | W. 16<br>R. 13<br>G. 13 | Orange metal column; 23.                                    | F.G. 144°-145°, Al.W.G.-148°,<br>F.W.-150°, Al.W.R.-153°,<br>F.R.-154°.                  |
|                                | Passing Lt.   |                           | <b>Oc.R.</b><br>period 8s<br>lt. 6s, ec. 2s                             |               | 3                       |   |  |
| 4492<br>A 4423                 | <b>Rhu Narrows.</b>   | 56° 00.7' N<br>4° 47.7' W | <b>Dir.W.R.G.</b>   | 16<br>5       | W. 16<br>R. 13<br>G. 13 | PORT (A)<br>R, beacon, topmark.                             | Al.W.G. 291°-294°, F.W.-296°,<br>Al.W.R.-299°, F.R.-301°.                                |
| 4504<br>A 4425.5               | -POL Jetty, N. arm.   | 56° 00.4' N<br>4° 47.5' W | <b>2 F.R.</b> (vert.)   |               | 5                       | White concrete column; 10.                                  | Visible 150°-330°.   |
| 4508<br>A 4422.5               | <b>-Rhu Point</b> , 318°.                                     | 56° 00.9' N<br>4° 47.2' W | <b>Dir.W.R.G.</b>   |               | W. 16<br>R. 13<br>G. 13 |   | Al.W.G. 315°-317°, F.W.-319°,<br>Al.W.R.-321°, F.R.-325°.                                |
| 4518<br>A 4425                 | -Castle Point.  | 56° 00.2' N<br>4° 46.5' W | <b>Fl.(2)R.</b><br>period 10s<br>fl. 0.8s, ec. 1.4s<br>fl. 0.8s, ec. 7s | 26<br>8       | 6                       | Red mast; 16.   |  |
| 4519<br>A 4426                 | -Rhu Spit.  | 56° 00.8' N<br>4° 47.3' W | <b>Fl.W.</b><br>period 3s<br>fl. 0.4s, ec. 2.6s                         | 19<br>6       | 6                       | White round tower, green band;<br>26.                       |  |
| 4524<br>A 4426.5               | -Mambeg, 331°.  | 56° 03.7' N<br>4° 50.5' W | <b>Dir.W.R.G.</b><br>period 5s<br>fl. 1s, ec. 4s                        | 23<br>7       | W. 5<br>R. 3<br>G. 3    | White column; 13.   | Fl.G. 329°-330°30', Fl.W.-<br>331°30', Fl.R.-332°30'.<br>Shown 24 hours.                 |
| 4528<br>A 4427.4               | -Faslane Base wharf, S. elbow.                                | 56° 03.2' N<br>4° 49.2' W | <b>Fl.G.</b><br>period 5s<br>fl. 0.5s, ec. 4.5s                         | 36<br>11      | 5                       | Metal mast.   |  |
| 4530<br>A 4427.45              | --Head.   | 56° 03.1' N<br>4° 49.2' W | <b>2 F.G.</b> (vert.)   |               |                         | Building.   |  |
| 4532<br>A 4427.5               | --Carnban Point, S dolphin.                                   | 56° 03.1' N<br>4° 49.2' W | <b>Fl.R.</b><br>period 5s<br>fl. 0.5s, ec. 4.5s                         | 10<br>3       | 2                       | Dolphin.  | Port closure signals on N.<br>dolphin.   |
| 4536<br>A 4427.6               | ---Middles.   | 56° 03.3' N<br>4° 49.2' W | <b>2 F.G.</b> (vert.)   | 46<br>14      | 5                       | Metal mast.   |  |
| 4542<br>A 4427.9               | ---Berth No 7.  | 56° 03.6' N<br>4° 49.2' W | <b>2 F.G.</b> (vert.)   | 23<br>7       |                         | Gray mast; 16.  | 2 meters apart.  |

| (1)<br>No.                     | (2)<br>Name and Location               | (3)<br>Position           | (4)<br>Characteristic                           | (5)<br>Height | (6)<br>Range | (7)<br>Structure                             | (8)<br>Remarks     |
|--------------------------------|--|---------------------------|---|---------------|--------------|--|--------------------|
| <b>SCOTLAND-FIRTH OF CLYDE</b> |  |                           |   |               |              |  |                    |
| 4544<br>A 4428.6               | -Garelohead, S. fuel jetty, head.      | 56° 04.2' N<br>4° 49.7' W | <b>2 F.G.</b> (vert.)                           | 33<br>10      | 5            | White floodlit tower; 40.                    | 2 meters apart.    |
| 4549<br>A 4428.8               | --N. head.                             | 56° 04.4' N<br>4° 49.7' W | <b>2 F.G.</b> (vert.)                           | 33<br>10      | 5            | White floodlit tower; 39.                    | 2 meters apart.    |
| GREENOCK:                      |  |                           |   |               |              |  |                    |
| 4552<br>A 4438                 | -Anchorage Range, front.               | 55° 57.6' N<br>4° 46.6' W | <b>F.G.</b>                                     | 23<br>7       | 12           | Yellow metal column.                         |                    |
| 4556<br>A 4440                 | --Rear, 32 meters 196° from front.     | 55° 57.6' N<br>4° 46.6' W | <b>F.G.</b>                                     | 30<br>9       | 12           | Yellow metal column.                         |                    |
| 4560<br>A 4444                 | -Clydeport Container Terminal.         | 55° 57.5' N<br>4° 45.9' W | <b>Q.G.</b>                                     | 26<br>8       | 8            | Gray metal column.                           |                    |
| 4564<br>A 4442                 | --Range, front.                        | 55° 57.4' N<br>4° 45.9' W | <b>F.G.</b>                                     | 59<br>18      |              | Building.                                    |                    |
| 4568<br>A 4442.1               | --Rear, 360 meters 194°30' from front. | 55° 57.3' N<br>4° 46.0' W | <b>F.G.</b>                                     | 108<br>33     |              | Pylon.<br>Floodlit.                          |                    |
| 4572<br>A 4458                 | -Victoria Harbor, W. side of entrance. | 55° 56.8' N<br>4° 44.7' W | <b>2 F.G.</b> (vert.)                           | 23<br>7       |              | Green mast; 16.                              | 2 meters apart.    |
| 4580<br>A 4470                 | -Garvel Embankment, W. end.            | 55° 56.8' N<br>4° 43.5' W | <b>Oc.G.</b><br>period 10s<br>fl. 6s, ec. 4s    | 30<br>9       | 4            | Mast.  |                    |
| 4584<br>A 4472                 | --Maurice Clark Point.                 | 55° 56.6' N<br>4° 42.8' W | <b>Q.G.</b>                                     | 22<br>7       | 2            | Green stone tower.                           |                    |
| PORT GLASGOW:                  |  |                           |   |               |              |  |                    |
| 4588<br>A 4476                 | -Beacon, off the entrance.             | 55° 56.3' N<br>4° 41.3' W | <b>F.G.</b>                                     | 24<br>7       | 9            | Black and white checkered tower, cupola; 26. |                    |
| 4592<br>A 4478                 | -Steamboat quay.                       | 55° 56.3' N<br>4° 41.4' W | <b>F.G.</b>                                     | 39<br>12      | 12           | Black and white checkered column; 36.        | Visible 210°-290°. |
| 4596<br>A 4484                 | Garrison.                              | 55° 55.9' N<br>4° 34.1' W | <b>Fl.G.</b><br>period 5s<br>fl. 0.5s, ec. 4.5s | 33<br>10      | 8            | Green pedestal, green masonry base; 36.      |                    |
| 4600<br>A 4486                 | Dumbuck.                               | 55° 55.8' N<br>4° 32.5' W | <b>Fl.G.</b><br>period 2s<br>fl. 0.3s, ec. 1.7s | 33<br>10      | 8            | Green masonry tower; 39.                     |                    |
| 4604<br>A 4488                 | Longhaugh.                             | 55° 55.7' N<br>4° 31.0' W | <b>Fl.G.</b><br>period 2s<br>fl. 0.3s, ec. 1.7s | 33<br>10      | 8            | Green pedestal, green masonry base; 36.      |                    |
| 4608<br>A 4490                 | Dunglass.                              | 55° 55.7' N<br>4° 30.1' W | <b>Fl.R.</b><br>period 2s<br>fl. 0.3s, ec. 1.7s | 32<br>10      | 6            | Red pedestal; 35.                            |                    |
| 4612<br>A 4494                 | Bowling.                               | 55° 55.8' N<br>4° 29.2' W | <b>Fl.R.</b><br>period 4s<br>fl. 1s, ec. 3s     | 32<br>10      | 6            | Red metal column.                            |                    |
| 4616<br>A 4496                 | Donalds quay.                          | 55° 55.5' N<br>4° 28.1' W | <b>Fl.R.</b><br>period 4s<br>fl. 1s, ec. 3s     | 32<br>10      | 6            | Red framework tower, red hut; 36.            |                    |
| 4620<br>A 4498                 | St. Patricks Stone.                    | 55° 55.2' N<br>4° 27.9' W | <b>Fl.G.</b><br>period 5s<br>fl. 0.5s, ec. 4.5s | 32<br>10      | 8            | Green pedestal, masonry base; 36.            |                    |
| 4628<br>A 4501                 | Erskine.                               | 55° 54.8' N<br>4° 27.3' W | <b>Fl.G.</b><br>period 5s<br>fl. 0.5s, ec. 4.5s | 32<br>10      | 8            | Green pedestal; 35.                          |                    |
| 4636<br>A 4504                 | Rashielee.                             | 55° 54.3' N<br>4° 26.6' W | <b>Fl.G.</b><br>period 2s<br>fl. 0.3s, ec. 1.7s | 32<br>10      | 8            | Green pedestal; 35.                          |                    |

| (1)<br>No.                     | (2)<br>Name and Location       | (3)<br>Position           | (4)<br>Characteristic                    | (5)<br>Height | (6)<br>Range            | (7)<br>Structure                       | (8)<br>Remarks  |
|--------------------------------|--------------------------------|---------------------------|--|---------------|-------------------------|--|---|
| <b>SCOTLAND-FIRTH OF CLYDE</b> |                                |                           |  |               |                         |  |   |
| 4640<br>A 4506                 | Dalmuir West.                  | 55° 54.4' N<br>4° 26.3' W | Fl.R.<br>period 2s<br>fl. 0.3s, ec. 1.7s | 32<br>10      | 6                       | Red metal column, masonry base; 36.    |   |
| 4644<br>A 4510                 | -East.                         | 55° 54.2' N<br>4° 25.1' W | Fl.R.<br>period 4s<br>fl. 1s, ec. 3s     | 32<br>10      | 6                       | Red framework tower, red base; 36.     |   |
| 4648<br>A 4508                 | Newshot Island.                | 55° 54.2' N<br>4° 25.5' W | Fl.G.<br>period 5s<br>fl. 0.5s, ec. 4.5s | 32<br>10      | 8                       | Green pedestal; 35.                    |   |
| 4652<br>A 4511                 | Algies.                        | 55° 53.8' N<br>4° 24.7' W | Fl.G.<br>period 5s<br>fl. 0.5s, ec. 4.5s | 23<br>7       | 8                       | Green metal gantry; 20.                |   |
| 4654<br>A 4511.2               | Slipway.                       | 55° 53.7' N<br>4° 24.3' W | Fl.R.<br>period 4s<br>fl. 0.3s, ec. 3.7s | 16<br>5       | 3                       | Red metal pole.                        | Marks end of slipway.   |
| 4656<br>A 4512                 | Blythswood.                    | 55° 53.4' N<br>4° 24.1' W | Fl.G.<br>period 2s<br>fl. 0.3s, ec. 1.7s | 32<br>10      | 8                       | Green tower, green base; 35.           |   |
| 4660<br>A 4513                 | Renfrew West.                  | 55° 53.2' N<br>4° 23.1' W | Fl.G.<br>period 5s<br>fl. 0.5s, ec. 4.5s | 32<br>10      | 8                       | Green metal column; 35.                |   |
| 4672<br>A 4516                 | Braehead.                      | 55° 52.6' N<br>4° 21.8' W | Fl.G.<br>period 2s<br>fl. 0.3s, ec. 1.7s | 32<br>10      | 8                       | Green pedestal; 35.                    |   |
| 4680<br>A 4519                 | Shieldhall East, wharf, head.  | 55° 52.1' N<br>4° 20.3' W | Fl.G.<br>period 2s<br>fl. 0.3s, ec. 1.7s | 55<br>17      | 8                       | Green mast; 58.                        |   |
| 4684<br>A 4520                 | Linthouse.                     | 55° 52.1' N<br>4° 19.9' W | Fl.G.<br>period 5s<br>fl. 0.5s, ec. 4.5s | 32<br>10      | 8                       | Green metal framework tower; 36.       |   |
| 4688<br>A 4521                 | Fairfield.                     | 55° 52.1' N<br>4° 19.4' W | Fl.G.<br>period 5s<br>fl. 0.5s, ec. 4.5s | 32<br>10      | 8                       | Green mast; 35.                        |   |
| 4693<br>A 4527                 | -Garden Festival Swing Bridge. | 55° 51.5' N<br>4° 17.4' W | Fl.R.<br>period 10s                      | 10<br>3       | 1                       | PORT (A)<br>R, pile, topmark; 10.      | Marks N. channel limit.<br>3 F.R. in form of triangle mark<br>center of channel when<br>bridge is closed.   |
| 4694<br>A 4527.2               | -S. side of bridge.            | 55° 51.5' N<br>4° 17.4' W | Fl.G.<br>period 10s                      | 10<br>3       | 1                       | STARBOARD (A)<br>G, pile, topmark; 10. | Marks S. channel limit.   |
| 4695<br>A 4527.4               | -N. channel limit.             | 55° 51.5' N<br>4° 17.3' W | Fl.R.<br>period 10s                      | 10<br>3       | 1                       | PORT (A)<br>R, pile, topmark; 10.      | Marks N. channel limit.   |
| 4696<br>A 4527.6               | -S. channel limits.            | 55° 51.5' N<br>4° 17.3' W | Fl.G.<br>period 10s                      | 10<br>3       | 1                       | STARBOARD (A)<br>G, pile, topmark; 10. | Marks S. channel limit.   |
| <b>SCOTLAND-WEST COAST</b>     |                                |                           |  |               |                         |  |   |
| ARDROSSAN:                     |                                |                           |  |               |                         |  |   |
| 4700<br>A 4532                 | -055°.                         | 55° 38.6' N<br>4° 49.2' W | Dir.W.R.G.                               | 49<br>15      | W. 14<br>R. 11<br>G. 11 | Metal framework tower; 39.             | F.G. 050°-051°12', Al.W.G.-<br>053°48' (W. phase<br>increasing with bearing),<br>F.W.-056°12', Al.W.R.-<br>058°48' (R. phase<br>increasing with bearing),<br>F.R.-060°. |
|                                |                                |                           | F.R.                                     | 43<br>13      | 6                       |  | Passing light visible 325°-<br>145°.  |
| 4704<br>A 4538                 | -Pier, head.                   | 55° 38.5' N<br>4° 49.6' W | Iso.W.G.<br>period 4s                    | 37<br>11      | 9                       | White tower; 29.                       | G. 317°-035°, W.-317°.  |

| (1)<br>No.          | (2)<br>Name and Location            | (3)<br>Position           | (4)<br>Characteristic   | (5)<br>Height | (6)<br>Range | (7)<br>Structure                  | (8)<br>Remarks                 |
|---------------------|-------------------------------------|---------------------------|---|---------------|--------------|-----------------------------------|--------------------------------|
| SCOTLAND-WEST COAST |                                     |                           |   |               |              |                                   |                                |
| 4708<br>A 4536      | -N. breakwater, head.               | 55° 38.5' N<br>4° 49.6' W | Fl.R.<br>period 5s  | 22<br>7       | 5            | Red gantry; 3.                    |                                |
| IRVINE:             |                                     |                           |   |               |              |                                   |                                |
| 4716<br>A 4546      | -S. side of entrance.               | 55° 36.2' N<br>4° 42.0' W | Fl.G.<br>period 3s<br>fl. 0.3s, ec. 2.7s                            | 19<br>6       | 5            | Green metal column, platform; 20. |                                |
| 4724<br>A 4548      | -Range, front.                      | 55° 36.4' N<br>4° 41.6' W | F.G.  | 33<br>10      | 5            | Green mast; 33.                   | Visible 019°-120°.             |
| 4728<br>A 4548.1    | --Rear, 101 meters 051° from front. | 55° 36.4' N<br>4° 41.5' W | F.R.  | 50<br>15      | 5            | Green mast; 50.                   | Visible 019°-120°.             |
| TROON HARBOR:       |                                     |                           |   |               |              |                                   |                                |
| 4732<br>A 4554      | -W. pier, head.                     | 55° 33.1' N<br>4° 41.0' W | Fl.(2)W.G.<br>period 5s<br>fl. 0.6s, ec. 0.9s<br>fl. 0.6s, ec. 2.9s | 35<br>11      | 9            | White tower; 26.                  | G. 036°-090°, W.-036°.         |
| 4740<br>A 4558      | -E. pier, head.                     | 55° 33.0' N<br>4° 41.0' W | Q.R.  | 19<br>6       | 3            | Red metal pole, dolphin; 13.      |                                |
| 4744<br>A 4562      | Lady Isle.                          | 55° 31.6' N<br>4° 44.0' W | Fl.W.<br>period 2s<br>fl. 0.5s, ec. 1.5s                            | 63<br>19      | 11           | White tower, red stripes; 16.     |                                |
| RACON               |                                     | T (-)                     |   |               | 11           |                                   | (3 & 10cm).                    |
| AYR HARBOUR:        |                                     |                           |   |               |              |                                   |                                |
| 4752<br>A 4574      | -Near pilot's house, Range, front.  | 55° 28.1' N<br>4° 38.4' W | F.R.  | 33<br>10      | 5            | Red tower, white lantern; 20.     | Traffic signals.               |
| 4756<br>A 4574.1    | --Rear, 130 meters 098° from front. | 55° 28.1' N<br>4° 38.3' W | Oc.R.<br>period 10s<br>lt. 8s, ec. 2s                               | 58<br>18      | 9            | Masonry tower, white lantern; 72. |                                |
| 4760<br>A 4568      | -S. pier, head.                     | 55° 28.2' N<br>4° 38.8' W | Q.W.  | 24<br>7       | 7            | White tower; 20.                  | Visible 012°-161°.             |
|                     |                                     |                           | F.G.  | 18<br>5       | 5            |                                   | Visible 012°-082°.             |
| 4764<br>A 4566      | -N. breakwater, head.               | 55° 28.2' N<br>4° 38.8' W | Q.R.  | 29<br>9       | 5            | White metal framework tower; 30.  |                                |
| 4768<br>A 4582      | Ailsa Craig.                        | 55° 15.1' N<br>5° 06.5' W | Fl.W.<br>period 4s<br>fl. 0.1s, ec. 3.9s                            | 60<br>18      | 17           | White tower; 36.                  | Visible 145°-028°.             |
| 4772<br>A 4580      | Turnberry.                          | 55° 19.5' N<br>4° 50.7' W | Fl.W.<br>period 15s<br>fl. 0.4s, ec. 14.6s                          | 95<br>29      | 12           | White tower; 79.                  |                                |
| 4776<br>A 4588      | Girvan, S. pier, head.              | 55° 14.7' N<br>4° 51.9' W | 2 F.G. (vert.)  | 26<br>8       | 4            | Metal mast, white tower; 20.      | Traffic signals 220 meters SE. |
| 4778<br>A 4588.4    | -N. breakwater, head.               | 55° 14.8' N<br>4° 51.8' W | Fl.(2)R.<br>period 6s   | 23<br>7       | 4            | Pole, concrete base; 13.          |                                |
| 4780<br>A 4586      | -N. groyne, head.                   | 55° 14.7' N<br>4° 51.7' W | Fl.R.<br>period 4s  | 16<br>5       | 2            | Metal framework tower.            |                                |
| LOCH RYAN:          |                                     |                           |   |               |              |                                   |                                |
| 4784<br>A 4592      | -Cairn Ryan Point.                  | 54° 58.5' N<br>5° 01.8' W | Fl.(2)R.<br>period 10s<br>fl. 0.1s, ec. 2.4s<br>fl. 0.1s, ec. 7.4s  | 46<br>14      | 12           | White tower, balcony; 49.         |                                |

| (1)<br>No.                 | (2)<br>Name and Location                       | (3)<br>Position           | (4)<br>Characteristic  | (5)<br>Height | (6)<br>Range | (7)<br>Structure                                  | (8)<br>Remarks  |
|----------------------------|--|---------------------------|--|---------------|--------------|---|---|
| <b>SCOTLAND-WEST COAST</b> |  |                           |  |               |              |   |   |
| 4786<br>A 4594             | -Cairnryan Ferry Terminal,<br>mooring dolphin. | 54° 57.8' N<br>5° 01.0' W | <b>Fl.R.</b><br>period 5s<br>fl. 0.5s, ec. 4.5s  | 18<br>5       | 5            | Mast.   |   |
| 4796<br>A 4604             | <b>Corsewall.</b>                              | 55° 00.4' N<br>5° 09.6' W | <b>Fl.(5)W.</b><br>period 30s<br>fl. 0.2s, ec. 3.5s<br>fl. 0.2s, ec. 3.5s<br>fl. 0.2s, ec. 3.5s<br>fl. 0.2s, ec. 3.5s<br>fl. 0.2s, ec. 15s | 112<br>34     | 22           | White tower; 112.                                 | Visible 027°-257°.<br><b>AIS</b> (MMSI No 992351018). |
| 4804<br>A 4607             | Portpatrick Range, front.                      | 54° 50.5' N<br>5° 07.0' W | <b>F.G.</b>  |               |              | Sea wall, orange stripe.                          | Occasional.<br>Private light.                         |
| 4808<br>A 4607.1           | -Rear, 68 meters 050°30' from<br>front.        | 54° 50.5' N<br>5° 06.9' W | <b>F.G.</b>  | 26<br>8       |              | Building, orange stripe.                          | Occasional.<br>Private light.                         |
| 4812<br>A 4608             | <b>Crammag Head.</b>                           | 54° 39.9' N<br>4° 57.9' W | <b>Fl.W.</b><br>period 10s<br>fl. 1s, ec. 9s   | 114<br>35     | 18           | White tower; 23.                                  |   |
| 4816<br>A 4610             | <b>Mull of Galloway.</b>                       | 54° 38.1' N<br>4° 51.4' W | <b>Fl.W.</b><br>period 20s<br>fl. 0.5s, ec. 19.5s  | 325<br>99     | 28           | White round tower; 85.                            | Visible 182°-105°.                                    |
| 4818<br>A 4620             | Port William Range, front.                     | 54° 45.6' N<br>4° 35.1' W | <b>Fl.G.</b><br>period 3s<br>fl. 0.3s, ec. 2.7s  | 23<br>7       | 3            | Metal mast; 20.                                   |   |
| 4818.1<br>A 4620.1         | -Rear, 130 meters 105° from<br>front.          | 54° 45.6' N<br>4° 35.1' W | <b>F.G.</b>  | 33<br>10      | 2            | Bracket on building.                              |   |
| 4820<br>A 4622             | Isle of Whithorn Harbor.                       | 54° 41.8' N<br>4° 21.7' W | <b>Q.G.</b>  | 13<br>4       | 5            | Gray column.                                      |   |
| 4822<br>A 4624             | -Range, front.                                 | 54° 42.0' N<br>4° 22.0' W | <b>Oc.R.</b><br>period 8s<br>lt. 6s, ec. 2s  | 23<br>7       | 7            | Orange metal mast, orange<br>diamond daymark; 13. |   |
| 4823<br>A 4624.1           | --Rear, 35 meters 355° from<br>front.          | 54° 42.0' N<br>4° 22.0' W | <b>Oc.R.</b><br>period 8s  | 29<br>9       | 7            | Orange metal mast, orange<br>diamond daymark; 10. | Synchronized with front.                              |
| 4823.5<br>A 4624.2         | Isle of Whithorn.                              | 54° 41.8' N<br>4° 21.6' W | <b>Fl.W.R.</b><br>period 3s<br>fl. 0.5s, ec. 2.5s  | 66<br>20      | W. 6<br>R. 4 | White square tower; 13.                           | W. 310°-005°, R. -040°.                               |
| 4824<br>A 4630             | Garlieston, pier, head.                        | 54° 47.5' N<br>4° 21.7' W | <b>2 F.R.</b> (vert.)  | 26<br>8       | 3            | Column; 16.                                       | 1 meter apart.  |
| 4827<br>A 4633.99          | Little Ross, front.                            | 54° 46.1' N<br>4° 05.0' W | <b>Fl.(2)W.</b><br>period 5s   | 69<br>21      | 5            | Stone beacon; 33.                                 |   |
| 4828<br>A 4634             | -Rear, 201° from front.                        | 54° 46.0' N<br>4° 05.1' W | <b>Fl.W.</b><br>period 5s<br>fl. 0.5s, ec. 4.5s  | 165<br>50     | 12           | White tower; 66.                                  | Obscured in Wigton Bay S. of<br>103°.                 |
| 4832<br>A 4640             | Hestan Islet, E. head.                         | 54° 50.0' N<br>3° 48.4' W | <b>Fl.(2)W.</b><br>period 10s<br>fl. 0.5s, ec. 1.5s<br>fl. 0.5s, ec. 7.5s  | 138<br>42     | 9            | White metal framework tower.                      |   |

# Section 5

## West Coast of England and North and West Coasts of Wales Including Bristol Channel

| (1)<br>No.         | (2)<br>Name and Location               | (3)<br>Position           | (4)<br>Characteristic  | (5)<br>Height | (6)<br>Range | (7)<br>Structure                        | (8)<br>Remarks  |
|--------------------|--|---------------------------|--|---------------|--------------|---|---|
| ENGLAND-WEST COAST |  |                           |  |               |              |   |   |
| SILLOTH:           |  |                           |  |               |              |   |   |
| 4844<br>A 4670     | -Lees Scar Rock.                       | 54° 51.8' N<br>3° 24.7' W | <b>Fl.G.</b><br>period 5s<br>fl. 1s, ec. 4s                            | 36<br>11      | 4            | White structure, piles; 13.             | Visible 005°-317°.  |
| 4848<br>A 4671     | --East Cote.                           | 54° 52.8' N<br>3° 22.8' W | <b>F.G.</b>  | 50<br>15      | 12           | White structure, piles; 39.             | Visible 046°-058°, intensified 052°.                                  |
| 4852<br>A 4672     | -Groyne, head.                         | 54° 52.1' N<br>3° 24.0' W | <b>2 F.G.</b> (vert.)  | 13<br>4       | 4            | Dolphin.                                | F.G.W.G. (vert.) traffic signals exhibited from New Dock Signal Mast. |
| 4856<br>A 4672.6   | -Outfall.                              | 54° 52.4' N<br>3° 23.4' W | <b>2 F.G.</b> (vert.)  |               |              | STARBOARD (A)<br>G, beacon, topmark.    |   |
| MARYPORT:          |  |                           |  |               |              |   |   |
| 4860<br>A 4676     | -S. pier, head.                        | 54° 43.1' N<br>3° 30.5' W | <b>Fl.W.</b><br>period 1.5s<br>fl. 0.2s, ec. 1.3s                      | 32<br>10      | 6            | Metal framework tower.                  |   |
| 4861<br>A 4677     | --Outfall.                             | 54° 42.8' N<br>3° 31.4' W | <b>Fl.G.</b><br>period 5s  |               |              | STARBOARD (A)<br>G, beacon, topmark.    |   |
| WORKINGTON:        |  |                           |  |               |              |   |   |
| 4864<br>A 4688     | -Pier, head, S. side of entrance.      | 54° 39.1' N<br>3° 34.6' W | <b>Fl.W.</b><br>period 5s<br>fl. 1s, ec. 4s                            | 36<br>11      | 5            | Red brick building; 20.                 | Q.G. marks end of outer S. pier extension.                            |
| 4868<br>A 4692     | -Range, front.                         | 54° 38.9' N<br>3° 34.1' W | <b>F.R.</b>  | 32<br>10      | 3            | White pyramidal tower, orange band; 23. |   |
| 4872<br>A 4692.1   | --Rear, 134 meters 131°49' from front. | 54° 38.9' N<br>3° 34.0' W | <b>F.R.</b>  | 40<br>12      | 3            | White pyramidal tower, orange band; 30. |   |
| WHITEHAVEN:        |  |                           |  |               |              |   |   |
| 4880<br>A 4698     | -W. pier, head.                        | 54° 33.2' N<br>3° 35.8' W | <b>Fl.G.</b><br>period 5s<br>fl. 1s, ec. 4s                            | 52<br>16      | 8            | White round tower; 46.                  |   |
| 4884<br>A 4700     | -N. pier, head.                        | 54° 33.2' N<br>3° 35.7' W | <b>Fl.R.</b><br>period 5s  | 26<br>8       | 10           | White round tower; 20.                  |   |
| 4888<br>A 4702     | -North Wall quay, head.                | 54° 33.1' N<br>3° 35.5' W | <b>2 F.R.</b> (vert.)  | 25<br>8       | 2            | Mast.                                   | Lock control signals 30 meters E.                                     |
| 4892<br>A 4710     | <b>St. Bees Head.</b>                  | 54° 30.8' N<br>3° 38.2' W | <b>Fl.(2)W.</b><br>period 20s<br>fl. 1.5s, ec. 2s<br>fl. 1.5s, ec. 15s | 336<br>102    | 18           | White round tower; 56.                  | Visible 340°-230°.  |



| (1)<br>No.                            | (2)<br>Name and Location                           | (3)<br>Position           | (4)<br>Characteristic  | (5)<br>Height | (6)<br>Range | (7)<br>Structure                                      | (8)<br>Remarks   |
|---------------------------------------|--|---------------------------|--|---------------|--------------|---|--|
| <b>ENGLAND-WEST COAST-ISLE OF MAN</b> |  |                           |  |               |              |   |  |
| 4896<br>A 4720                        | <b>Point of Ayre.</b>                              | 54° 24.9' N<br>4° 22.1' W | <b>Fl.(4)W.</b><br>period 20s<br>fl. 0.2s, ec. 2.3s<br>fl. 0.2s, ec. 2.3s<br>fl. 0.2s, ec. 2.3s<br>fl. 0.2s, ec. 12.3s | 106<br>32     | 19           | White tower, two red bands; 98.                       |  |
|                                       | RACON  |                           | <b>M(— —)</b>  |               | 13           |   | (3 & 10cm).  |
|                                       | PEEL:  |                           |  |               |              |   |  |
| 4924<br>A 4734                        | -Breakwater, head.                                 | 54° 13.7' N<br>4° 41.7' W | <b>Oc.W.</b><br>period 7s<br>lt. 5s, ec. 2s  | 37<br>11      | 6            | White tower; 26.                                      |  |
| 4928<br>A 4730                        | -Pier, head, E. side of harbor entrance.           | 54° 13.5' N<br>4° 41.7' W | <b>Oc.R.</b><br>period 7s<br>lt. 5s, ec. 2s  | 27<br>8       |              | White tower, red band, building.                      |  |
| 4932<br>A 4732                        | -Castle jetty, head.                               | 54° 13.6' N<br>4° 41.7' W | <b>Oc.G.</b><br>period 7s<br>lt. 5s, ec. 2s  | 18<br>5       |              | White tower, three green bands; 13.                   |  |
|                                       | PORT ERIN:   |                           |  |               |              |   |  |
| 4936<br>A 4740                        | -Range, front.                                     | 54° 05.3' N<br>4° 45.4' W | <b>F.R.</b>  | 33<br>10      |              | White tower, red band; 36.                            |  |
| 4940<br>A 4740.1                      | --Rear, on E. shore, 39 meters 099°06' from front. | 54° 05.3' N<br>4° 45.4' W | <b>F.R.</b>  | 62<br>19      |              | White column, red band, lantern; 13.                  |  |
| 4944<br>A 4744                        | -Raglan pier, head.                                | 54° 05.1' N<br>4° 45.7' W | <b>Oc.G.</b><br>period 5s<br>lt. 4s, ec. 1s  | 26<br>8       |              | White tower, green band; 23.                          |  |
| 4952<br>A 4745                        | Thousla Rock.                                      | 54° 03.7' N<br>4° 48.0' W | <b>Fl.R.</b><br>period 3s<br>fl. 0.7s, ec. 2.3s  | 30<br>9       | 4            | White octagonal concrete tapered pillar, red lantern. |  |
| 4956<br>A 4748                        | <b>Chicken Rock.</b>                               | 54° 02.3' N<br>4° 50.4' W | <b>Fl.W.</b><br>period 5s<br>fl. 0.5s, ec. 4.5s  | 125<br>38     | 21           | Granite tower; 144.                                   |  |
|                                       | RACON  |                           | <b>C(— • — •)</b>  |               |              |   | (3 & 10cm).  |
|                                       | PORT ST. MARY:                                     |                           |  |               |              |   |  |
| 4960<br>A 4752                        | -The Carrick.                                      | 54° 04.3' N<br>4° 42.5' W | <b>Q.(2)W.</b><br>period 5s  | 21<br>6       | 3            | ISOLATED DANGER<br>BRB, pillar, topmark; 26.          |  |
| 4964<br>A 4756                        | -Inner pier, head.                                 | 54° 04.4' N<br>4° 44.0' W | <b>Oc.R.</b><br>period 3s<br>lt. 2s, ec. 1s  | 25<br>8       |              | White tower, red band; 26.                            |  |
| 4968<br>A 4754                        | -Alfred pier, head.                                | 54° 04.3' N<br>4° 43.7' W | <b>Oc.R.</b><br>period 10s<br>lt. 6s, ec. 4s   | 25<br>8       | 5            | White tower, red band; 23.                            |  |
|                                       | CASTLETOWN HARBOUR:                                |                           |  |               |              |   |  |
| 4972<br>A 4760                        | -New pier, head.                                   | 54° 04.3' N<br>4° 38.8' W | <b>Oc.R.</b><br>period 15s<br>lt. 13s, ec. 2s  | 27<br>8       | 5            | White tower, red band; 30.                            |  |
| 4976<br>A 4761                        | -Irish quay.                                       | 54° 04.4' N<br>4° 38.9' W | <b>Oc.R.</b><br>period 4s<br>lt. 3s, ec. 1s  | 16<br>5       |              | White tower, red band; 13.                            | Visible 142°-322°.<br>2 F.R. shown from each swing bridge. |
| 4980<br>A 4760.5                      | -N. side of entrance.                              | 54° 04.4' N<br>4° 38.9' W | <b>Oc.G.</b><br>period 4s<br>lt. 3s, ec. 1s  | 11<br>3       |              | White metal post, concrete column.                    |  |

| (1)<br>No.                            | (2)<br>Name and Location                | (3)<br>Position           | (4)<br>Characteristic  | (5)<br>Height | (6)<br>Range | (7)<br>Structure  | (8)<br>Remarks  |
|---------------------------------------|---|---------------------------|--|---------------|--------------|---|---|
| <b>ENGLAND-WEST COAST-ISLE OF MAN</b> |   |                           |  |               |              |   |   |
| 4984<br>A 4762                        | Langness, Dreswick Point.               | 54° 03.3' N<br>4° 37.5' W | <b>Fl.(2)W.</b><br>period 30s<br>fl. 0.6s, ec. 5.1s<br>fl. 0.6s, ec. 23.7s                   | 75<br>23      | 12           | White tower; 62.  |   |
| 4988<br>A 4764                        | Derby Haven, breakwater, SW. head.      | 54° 04.6' N<br>4° 36.9' W | <b>Iso.G.</b><br>period 2s   | 15<br>5       | 5            | White tower, green band.  |   |
| DOUGLAS BAY:                          |   |                           |  |               |              |   |   |
| 4992<br>A 4770                        | <b>-Douglas Head.</b>                   | 54° 08.6' N<br>4° 28.0' W | <b>Fl.W.</b><br>period 10s<br>fl. 0.5s, ec. 9.5s   | 104<br>32     | 24           | White tower, buildings; 66.                                     | Visible 220°-037°. Unintensified 110°-220°.                                     |
| 5028<br>A 4784                        | Laxey, pier, head.                      | 54° 13.5' N<br>4° 23.2' W | <b>Oc.R.</b><br>period 3s<br>lt. 2s, ec. 1s  | 22<br>7       | 5            | White tower, red band; 13.                                      | Visible 318°-047°.  |
| 5032<br>A 4785                        | -Breakwater, head.                      | 54° 13.5' N<br>4° 23.2' W | <b>Oc.G.</b><br>period 3s<br>lt. 2s, ec. 1s  | 22<br>7       | 5            | White tower, green band; 13.                                    |   |
| 5036<br>A 4786                        | <b>Maughold Head.</b>                   | 54° 17.8' N<br>4° 18.6' W | <b>Fl.(3)W.</b><br>period 30s<br>fl. 0.5s, ec. 2s<br>fl. 0.5s, ec. 2s<br>fl. 0.5s, ec. 24.5s | 212<br>65     | 21           | White tower; 77.  |   |
| RAMSEY:                               |   |                           |  |               |              |   |   |
| 5040<br>A 4796                        | -S. pier, head.                         | 54° 19.4' N<br>4° 22.5' W | <b>Iso.R.</b><br>period 5s   | 26<br>8       | 10           | White tower, red band, black base; 26.                          |   |
| 5044<br>A 4798                        | -N. pier, head.                         | 54° 19.0' N<br>4° 22.0' W | <b>Q.G.</b>  | 30<br>9       | 10           | White tower, black base; 25.                                    |   |
| 5048<br>A 4799                        | -Mooragh Bank.                          | 54° 19.3' N<br>4° 22.8' W | <b>Iso.G.</b><br>period 4s   | 11<br>3       |              | Green metal post, dolphin; 10.                                  | Not visible seaward. 2 F.R. (horiz.) marks center of each side of swing bridge. |
| <b>ENGLAND-WEST COAST</b>             |   |                           |  |               |              |   |   |
| MORECAMBE BAY:                        |   |                           |  |               |              |   |   |
| 5052<br>A 4820                        | <b>-Walney.</b>                         | 54° 02.9' N<br>3° 10.7' W | <b>Fl.W.</b><br>period 15s<br>fl. 0.5s, ec. 14.5s  | 70<br>21      | 23           | White stone tower; 79.  | Obscured 122°-127° within 3 miles of the shore.                                 |
| 5054<br>A 4821                        | -Halfway Shoal.                         | 54° 01.4' N<br>3° 11.9' W | <b>Q.R.</b>  | 52<br>16      | 10           | Framework beacon, red and yellow checkered rectangular daymark. | Emergency light.  |
| 5056<br>A 4823                        | -Haws Point.                            | 54° 03.0' N<br>3° 10.0' W | <b>Q.R.</b>  | 26<br>8       | 6            | Black pile.   |   |
| 5060<br>A 4840                        | -Cartmel.                               | 54° 09.6' N<br>2° 59.6' W | <b>F.W.</b>  | 82<br>25      | 9            |   |   |
| -Walney Channel:                      |   |                           |  |               |              |   |   |
| 5064<br>A 4822                        | --Range light, front.                   | 54° 03.2' N<br>3° 09.1' W | <b>Q.W.</b>  | 23<br>7       | 14           | Beacon, orange rectangular daymark.                             | Visible 035°12'-046°12'.  |
| 5068<br>A 4822.1                      | ---Rear, 0.61 mile 040°42', from front. | 54° 03.6' N<br>3° 08.5' W | <b>Iso.W.</b><br>period 2s   | 43<br>13      | 14           | Beacon, orange rectangular daymark.                             | Visible 035°12'-046°12' and 111°54'-122°54'.                                    |
| 5072<br>A 4824                        | --Range light, front.                   | 54° 04.4' N<br>3° 09.7' W | <b>Q.W.</b>  | 29<br>9       | 14           | White round fiberglass tower.                                   | Visible 359°36'-010°36'.  |
| 5076<br>A 4824.1                      | ---Rear, 0.77 mile 005°06' from front.  | 54° 05.2' N<br>3° 09.6' W | <b>Iso.W.</b><br>period 2s   | 46<br>14      | 14           | Red brick column, white face.                                   | Visible 359°36'-010°36'.  |

| (1)<br>No.                | (2)<br>Name and Location  | (3)<br>Position           | (4)<br>Characteristic   | (5)<br>Height | (6)<br>Range | (7)<br>Structure  | (8)<br>Remarks  |
|---------------------------|---|---------------------------|---|---------------|--------------|---|---|
| <b>ENGLAND-WEST COAST</b> |   |                           |   |               |              |   |   |
| 5080<br>A 4825            | --No 5, W. side of channel<br>opposite Ramsden Dock<br>entrance, front. | 54° 05.2' N<br>3° 13.5' W | <b>Q.W.</b>   | 23<br>7       | 14           | White platform, black pile<br>structure, orange triangular<br>daymark point down. | Visible 291°54'-302°54'.  |
| 5084<br>A 4825.1          | ---Rear, No 6, 0.58 mile<br>297°24' from front.                         | 54° 05.4' N<br>3° 14.4' W | <b>Iso.W.</b><br>period 2s  | 43<br>13      | 14           | Beacon, orange triangular<br>daymark point up.                                    | Visible 291°54'-302°54'.  |
| 5088<br>A 4833.2          | --W. pile, W. side.   | 54° 05.3' N<br>3° 13.4' W | <b>Q.R.</b>   | 26<br>8       | 4            | Black pile.   |   |
| 5092                      | -Morecambe Buoy.  | 53° 52.0' N<br>3° 23.0' W | <b>Q.(9)W.</b><br>period 15s  |               |              | W. CARDINAL<br>YBY, pillar.   | <b>Whistle.</b><br><b>Radar reflector.</b>  |
| 5094                      | -Lune Deep Buoy.  | 53° 55.8' N<br>3° 10.9' W | <b>Q.(6)+L.Fl.W.</b><br>period 15s                                    |               |              | S. CARDINAL<br>YB, pillar, topmark.   | <b>Whistle.</b>   |
|                           | -RACON  |                           | <b>T(-)</b>   |               | 10           |   | (3 & 10cm).   |
| 5096<br>A 4852            | --Middle of stone pier W. side<br>harbor, front.                        | 54° 04.4' N<br>2° 52.5' W | <b>F.R.</b>   | 34<br>10      | 2            | Green mast; 21.   |   |
| 5100<br>A 4852.1          | --Rear, root of E. pier, 140<br>meters 090° from front.                 | 54° 04.4' N<br>2° 52.4' W | <b>F.R.</b>   | 45<br>14      | 2            | Green mast; 32.   |   |
| 5112<br>A 4847            | --Sewer, outfall.   | 54° 04.3' N<br>2° 53.7' W | <b>Fl.G.</b><br>period 2s<br>fl. 0.5s, ec. 1.5s                       | 13<br>4       | 2            | Metal framework tower.  |   |
| 5116<br>A 4862            | --SW. quay Range, front.  | 54° 01.9' N<br>2° 55.1' W | <b>F.Bu.</b>  | 37<br>11      | 2            | Post, orange and black diamond<br>daymark; 7.                                     | Marks center of dredged<br>channel into the harbor.   |
|                           |   |                           | <b>Fl.R.</b>  |               |              | LED chevron daymark point up.   | Ascending ripple light.   |
| 5120<br>A 4862.1          | ---Rear, 137 meters 102°15'<br>from front.                              | 54° 01.9' N<br>2° 55.0' W | <b>F.Bu.</b>  | 46<br>14      | 2            | Mast, orange and black diamond<br>daymark; 16.                                    |   |
|                           |   |                           | <b>Fl.R.</b>  |               |              | LED chevron daymark point up.   | Ascending ripple light.   |
| 5124<br>A 4860            | --S. breakwater, head.  | 54° 01.9' N<br>2° 55.6' W | <b>2 F.G.</b> (vert.)   | 30<br>9       | 5            | White metal framework tower;<br>20.   | 2 meters apart.<br><b>Siren:</b> 1 bl. ev. 30s (bl. 7s, si.<br>23s).<br><b>Radar reflector.</b> |
| 5128<br>A 4864            | --N. pier, head.  | 54° 02.0' N<br>2° 55.3' W | <b>2 F.R.</b> (vert.)   | 35<br>11      | 2            | Mast; 18.   | Obscured from seaward.  |
| 5132<br>A 4863            | --S. pier, head.  | 54° 01.9' N<br>2° 55.4' W | <b>Oc.G.</b><br>period 7.5s<br>lt. 6s, ec. 1.5s                       | 30<br>9       | 6            | White metal tower, red base; 20.  |   |
| 5136<br>A 4863.3          | --S. outfall.   | 54° 01.7' N<br>2° 55.7' W | <b>Fl.(2)G.</b><br>period 10s<br>fl. 0.5s, ec. 1s<br>fl. 0.5s, ec. 8s | 16<br>5       | 2            | Metal post.   |   |
|                           | -Lune River:  |                           |   |               |              |   |   |
| 5144<br>A 4876            | --Plover Scar.  | 53° 58.9' N<br>2° 52.9' W | <b>Fl.W.</b><br>period 2s   | 20<br>6       | 6            | White stone tower, black lantern;<br>26.  |   |
|                           | -Fleetwood:   |                           |   |               |              |   |   |
| 5152<br>A 4892            | --On esplanade, Range, front.   | 53° 55.7' N<br>3° 00.4' W | <b>Fl.G.</b><br>period 2s   | 46<br>14      | 9            | Stone tower; 39.  | Visible 154°30'-157°30'.<br>Shown 24 hours.   |
| 5156<br>A 4892.1          | ---Rear, in town, 320 meters<br>156° from front.                        | 53° 55.6' N<br>3° 00.4' W | <b>Fl.G.</b><br>period 4s   | 93<br>28      | 9            | Stone tower; 82.  | Visible 154°30'-157°30'.<br>Shown 24 hours.   |
| 5160<br>A 4893            | --Steep Breast.   | 53° 55.8' N<br>3° 00.5' W | <b>Iso.G.</b><br>period 2s  | 11<br>3       | 2            | Black wooden post, platform,<br>black base; 26.                                   |   |
| 5164<br>A 4902            | --S. side of ferry dock.  | 53° 55.6' N<br>3° 00.2' W | <b>2 F.G.</b> (vert.)   | 20<br>6       | 1            | Red metal column; 10.   |   |
| 5168<br>A 4900            | --Knott End pier, head.   | 53° 55.7' N<br>3° 00.0' W | <b>2 F.R.</b> (vert.)   | 10<br>3       | 2            | Platform, column; 34.   |   |
| 5172<br>A 4896            | --Groyne.   | 53° 55.7' N<br>3° 00.8' W | <b>Fl.G.</b><br>period 3.5s   | 21<br>6       |              | Post, platform.   |   |

| (1)<br>No.                | (2)<br>Name and Location            | (3)<br>Position           | (4)<br>Characteristic      | (5)<br>Height | (6)<br>Range | (7)<br>Structure                                   | (8)<br>Remarks   |
|---------------------------|-------------------------------------|---------------------------|----------------------------|---------------|--------------|--|--|
| <b>ENGLAND-WEST COAST</b> |                                     |                           |                            |               |              |  |  |
| BLACKPOOL:                |                                     |                           |                            |               |              |  |  |
| 5176<br>A 4918            | -N. pier, head.                     | 53° 49.2' N<br>3° 03.8' W | 2 F.G. (vert.)             |               | 3            |  | 2 meters apart.  |
| 5180<br>A 4920            | -Central pier, head.                | 53° 48.6' N<br>3° 03.9' W | 2 F.G. (vert.)             |               | 4            | Triangular metal structure.                        | 2 meters apart.  |
| 5184<br>A 4922            | -S. pier, head.                     | 53° 47.7' N<br>3° 03.6' W | 2 F.G. (vert.)             |               | 4            | Building.  |  |
| 5188                      | Gut Buoy.                           | 53° 41.0' N<br>3° 09.0' W | L.F.I.W.<br>period 10s     |               |              | SAFE WATER<br>RW, spherical.                       |  |
| RIBBLE RIVER:             |                                     |                           |                            |               |              |  |  |
| -Lytham St. Annes:        |                                     |                           |                            |               |              |  |  |
| 5192<br>A 4927.6          | --N. training wall.                 | 53° 43.2' N<br>3° 02.8' W | Fl.R.<br>period 5s         | 20<br>6       | 3            | Tripod, red metal perch; 39.                       |  |
| 5200<br>A 4940            | Southport, pier, head.              | 53° 39.4' N<br>3° 01.4' W | 2 F.G. (vert.)             | 20<br>6       | 5            | White post.  | Visible 033°-213°.                                       |
| RIVER MERSEY:             |                                     |                           |                            |               |              |  |  |
| 5213<br>A 4952            | -New Brighton breakwater No 13.     | 53° 26.5' N<br>3° 02.1' W | 2 F.G. (vert.)             | 13<br>4       | 6            | Metal mast, green triangular daymark point up; 39. | 2 meters apart.  |
| 5214<br>A 4952.2          | --Corner, No 12.                    | 53° 26.6' N<br>3° 02.2' W | 2 F.G. (vert.)             | 13<br>4       | 6            | Metal mast, green triangular daymark point up; 33. | 2 meters apart.  |
| 5215<br>A 4952.4          | --No 11, NW. head.                  | 53° 26.8' N<br>3° 02.8' W | 2 F.G. (vert.)             | 13<br>4       | 6            | Metal mast, green triangular daymark point up; 36. | 2 meters apart.  |
| 5215.4<br>A 4952.6        | --No 2.                             | 53° 24.7' N<br>3° 08.6' W | Fl.W.                      | 20<br>6       |              | Beacon, double cone topmark point up.              |  |
| -Seacombe:                |                                     |                           |                            |               |              |  |  |
| 5216<br>A 4954            | --N. corner of head of ferry pier.  | 53° 24.6' N<br>3° 00.9' W | 3 F.G.                     | 16<br>5       | 5            | Metal column; 10.                                  | In shape of triangle.                                    |
| 5220<br>A 4956            | --Center of head.                   | 53° 24.6' N<br>3° 00.9' W | F.Y.                       | 27<br>8       | 6            | Tower on building; 33.                             |  |
| 5224<br>A 4958            | --S. corner of head.                | 53° 24.6' N<br>3° 00.9' W | 3 F.G.                     | 16<br>5       | 5            | Metal column; 10.                                  | In shape of triangle.<br>Bell: 3 str. ev. 20s.           |
| 5232<br>A 4972            | --Woodside Landing Stage, N. head.  | 53° 23.8' N<br>3° 00.5' W | 3 F.G.                     | 15<br>5       | 4            | Metal column; 16.                                  | In shape of triangle.                                    |
| 5236<br>A 4974            | --S. head.                          | 53° 23.7' N<br>3° 00.5' W | 2 F.G. (vert.)             | 15<br>5       | 7            | Metal column.                                      |  |
| 5240<br>A 4975            | -Cammell Laird, SE. corner of slip. | 53° 24.0' N<br>3° 00.3' W | Fl.(2)G.<br>period 6s      | 18<br>5       | 5            | White structure; 29.                               |  |
| 5244<br>A 4977            | -Tranmere Terminal, N. dolphin.     | 53° 22.9' N<br>3° 00.1' W | Fl.G.<br>period 3s         | 23<br>7       | 7            | Dolphin.   |  |
| 5248<br>A 4978            | -N. Stage, N. head.                 | 53° 22.8' N<br>3° 00.0' W | 2 F.G. (vert.)             | 32<br>10      | 3            |  | 2 meters apart.<br>Bell: (50 meters SE.) 2 str. ev. 10s. |
| 5252<br>A 4978.2          | --S. head.                          | 53° 22.8' N<br>3° 00.0' W | 2 F.G. (vert.)             | 32<br>10      | 5            |  |  |
| 5256<br>A 4979            | -S. Stage, N. head.                 | 53° 22.7' N<br>2° 59.9' W | 3 F.G. (triangular-shaped) | 29<br>9       | 3            |  |  |
| 5260<br>A 4979.2          | --S. head.                          | 53° 22.6' N<br>2° 59.9' W | 2 F.G. (vert.)             | 32<br>10      | 5            |  |  |

| (1)<br>No.                | (2)<br>Name and Location                   | (3)<br>Position           | (4)<br>Characteristic                           | (5)<br>Height | (6)<br>Range | (7)<br>Structure                              | (8)<br>Remarks                      |
|---------------------------|--|---------------------------|---|---------------|--------------|---|-------------------------------------|
| <b>ENGLAND-WEST COAST</b> |  |                           |   |               |              |   |                                     |
| 5273<br>A 4980.7          | --Outfall.                                 | 53° 22.2' N<br>2° 59.6' W | <b>2 F.G.</b> (vert.)                           |               |              | Beacon, green triangular<br>daymark point up. |                                     |
| 5276<br>A 4981            | --Bromborough Dock, jetty, N.<br>head.     | 53° 21.7' N<br>2° 59.0' W | <b>3 F.G.</b> (triangular-<br>shaped)           | 16<br>5       | 3            | Metal post and cross bar.                     |                                     |
| 5278<br>A 4983            | --Sewer outfall.                           | 53° 21.2' N<br>2° 58.3' W | <b>2 F.G.</b> (vert.)                           |               |              |   |                                     |
|                           | --Eastham Channel:                         |                           |   |               |              |   |                                     |
| 5280<br>A 4985            | --Jetty, S. head.                          | 53° 20.8' N<br>2° 58.1' W | <b>3 F.G.</b> (triangular-<br>shaped)           | 16<br>5       |              | Metal post and cross bar.                     |                                     |
| 5300<br>A 4994            | --Eastham Locks, Center<br>Island.         | 53° 19.4' N<br>2° 56.8' W | <b>Oc.W.R.G.</b>                                |               |              | Inbound traffic signals.                      | <b>Bell:</b> When tide serves.      |
|                           |  |                           | <b>F.W.R.G.</b>                                 |               |              | Outbound traffic signals.                     |                                     |
|                           | --Garston:                                 |                           |   |               |              |   |                                     |
| 5320<br>A 5024            | --NW. dolphin.                             | 53° 20.9' N<br>2° 54.6' W | <b>Fl.G.</b><br>period 2s                       | 38<br>12      | 9            | Mast, black dolphin.                          |                                     |
| 5324<br>A 5020            | --E. jetty, head.                          | 53° 20.9' N<br>2° 54.6' W | <b>Fl.R.</b><br>period 2s                       | 36<br>11      | 8            | Gray framework tower, diamond<br>daymark; 26. |                                     |
| 5328<br>A 5026            | --Stalbridge dock, S. side of<br>entrance. | 53° 20.9' N<br>2° 54.4' W | <b>2 F.G.</b> (vert.)                           | 34<br>10      | 3            | Blue cylindrical metal tower; 33.             | Docking signals.                    |
|                           | --Liverpool:                               |                           |   |               |              |   |                                     |
| 5336<br>A 5063            | --Liverpool Landing Stage, N.<br>head.     | 53° 24.5' N<br>3° 00.1' W | <b>3 F.R.</b> (triangular-<br>shaped)           | 10<br>3       | 4            | Metal column; 3.                              |                                     |
| 5340<br>A 5058            | --S. head.                                 | 53° 24.3' N<br>2° 59.9' W | <b>2 F.R.</b> (vert.)                           |               |              |   |                                     |
| 5344<br>A 5091            | --Langton River Entrance.                  | 53° 26.1' N<br>3° 00.5' W | <b>Iso.W.R.G.</b><br>period 4s                  |               |              |   | R. 034°-039°, W.-049°, G.-<br>054°. |
|                           |  |                           | <b>F.R.</b>                                     |               |              |   |                                     |
| 5348<br>A 5092            | --213 meters from lock<br>entrance.        | 53° 26.2' N<br>3° 00.5' W | <b>Fl.W.R.G.</b><br>period 2s                   |               |              |   | R. 069°-074°, W.-084°, G.-<br>089°. |
|                           |  |                           | <b>F.R.</b>                                     |               |              |   |                                     |
| 5352<br>A 5093            | --122 meters from lock<br>entrance.        | 53° 26.3' N<br>3° 00.5' W | <b>Oc.W.R.G.</b><br>period 4s<br>lt. 3s, ec. 1s |               |              |   | R. 069°-74°, W.-084°, G.-<br>089°.  |
|                           |  |                           | <b>F.R.</b>                                     |               |              |   |                                     |
|                           | --Gladstone Dock:                          |                           |   |               |              |   |                                     |
| 5356<br>A 5102            | --212 meters from lock<br>entrance.        | 53° 26.9' N<br>3° 01.0' W | <b>Oc.W.R.G.</b><br>period 4s<br>lt. 3s, ec. 1s |               |              |   | R. 062°-067°, W.-077°, G.-<br>082°. |
|                           |  |                           | <b>F.R.</b>                                     |               |              |   |                                     |
| 5364<br>A 5104            | --122 meters from lock<br>entrance.        | 53° 26.9' N<br>3° 01.0' W | <b>Fl.W.R.G.</b><br>period 2s                   |               |              |   | R. 062°-067°, W.-077°, G.-<br>082°. |
|                           |  |                           | <b>F.R.</b>                                     |               |              |   |                                     |
|                           | RIVER DEE:                                 |                           |   |               |              |   |                                     |
| 5380<br>A 5115            | --Hilbre Island.                           | 53° 23.0' N<br>3° 13.7' W | <b>Fl.R.</b><br>period 3s<br>fl. 0.5s, ec. 2.5s | 46<br>14      | 5            | White metal framework tower;<br>10.           |                                     |

| (1)<br>No.                         | (2)<br>Name and Location                                 | (3)<br>Position           | (4)<br>Characteristic                        | (5)<br>Height | (6)<br>Range          | (7)<br>Structure  | (8)<br>Remarks  |
|------------------------------------|--|---------------------------|--|---------------|-----------------------|---|---|
| <b>ENGLAND-WEST COAST</b>          |  |                           |  |               |                       |   |   |
| 5384<br>A 5116                     | -West Hoyle Spit (Earwig).<br>Outer 090°.                | 53° 21.2' N<br>3° 24.1' W | <b>Dir.W.R.G.</b><br>period 2s               |               | W. 10<br>R. 7<br>G. 7 | Perch pile.   | Iso.G. 087°30'-089°30',<br>Iso.W.-090°30', Iso.R.-<br>092°30'.<br>Range 3/2M by day.<br>Occasional.   |
|                                    |  |                           | <b>Q.G.</b>                                  |               | 5                     |   |   |
| 5384.1<br>A 5116.05                | -Port of Mostyn, Inner 177°30'.                          | 53° 19.3' N<br>3° 16.0' W | <b>Dir.W.R.G.</b><br>period 2s               |               | W. 10<br>R. 7<br>G. 7 | Yellow framework tower.   | Iso.G. 175°30'-177°30',<br>Iso.W.-178°, Iso.R.-180°.<br>Range 3/2M by day.  |
| 5388<br>A 5118                     | -N. training wall, outer end,<br>opposite Flint.         | 53° 15.1' N<br>3° 06.5' W | <b>Fl.R.</b><br>period 2s                    | 12<br>4       | 6                     | Metal framework tower; 26.  |   |
| 5392<br>A 5119                     | -S. training wall, near outer end.                       | 53° 14.0' N<br>3° 04.5' W | <b>Fl.G.</b><br>period 5s                    | 10<br>3       | 6                     | Metal framework tower, green<br>triangular daymark point up;<br>23. |   |
| LIVERPOOL BAY:                     |  |                           |  |               |                       |   |   |
| 5395<br>A 5120                     | Gwynn Y Mor, offshore wind<br>farm, meteorological mast. | 53° 28.8' N<br>3° 30.5' W | <b>Mo.(U)W.</b><br>period 15s                | 39<br>12      | 10                    | Yellow concrete pile.   | <b>Horn:</b> Mo(U) ev. 30s.<br><b>Radar reflector.</b>  |
|                                    |  |                           | <b>F.R.</b>                                  | 262<br>80     | 2                     |   |   |
| <b>WALES-NORTH AND WEST COASTS</b> |  |                           |  |               |                       |   |   |
| RHYL:                              |  |                           |  |               |                       |   |   |
| 5396<br>A 5125                     | -Breakwater, head.                                       | 53° 19.5' N<br>3° 30.3' W | <b>Q.R.</b>                                  | 22<br>7       | 2                     | Beacon.   | F.W. on tower 820 meters SE.  |
| 5400<br>A 5127                     | Llanddulas, Llysfaen jetty.                              | 53° 17.6' N<br>3° 39.4' W | <b>2 F.G.</b> (vert.)                        |               |                       |   |   |
| 5408<br>A 5132                     | Llandudno, pier, head.                                   | 53° 19.9' N<br>3° 49.5' W | <b>2 F.G.</b> (vert.)                        | 27<br>8       | 4                     | Mast; 16.   | 2 meters apart.   |
| 5412                               | <i>West Constable Buoy.</i>                              | 53° 23.1' N<br>3° 49.2' W | <b>Q.(9)W.</b><br>period 15s                 |               |                       | W. CARDINAL<br>YBY, pillar, topmark.                                |   |
|                                    | RACON  |                           | <b>M(— —)</b>                                |               | 10                    |   | (3 & 10cm).   |
| 5416<br>A 5138                     | Conwy River, entrance.                                   | 53° 18.1' N<br>3° 50.8' W | <b>L.Fl.G.</b><br>period 15s                 | 16<br>5       | 2                     | Perch; 36.  |   |
| MENAI STRAIT:                      |  |                           |  |               |                       |   |   |
| 5420<br>A 5140                     | -Menai, Trwyn-duPoint.                                   | 53° 18.8' N<br>4° 02.5' W | <b>Fl.W.</b><br>period 5s<br>fl. 1s, ec. 4s  | 62<br>19      | 12                    | White round tower, black bands;<br>95.                              | Visible 101°-023°. Partially<br>obscured 019°-023°. Sounded continuously.<br>F.R. marks radio mast about 4<br>km SW. of Trwyn-Du.<br><b>Bell:</b> 1 str. ev. 30s. |
| 5428<br>A 5146                     | -Beaumaris, on pier.                                     | 53° 15.7' N<br>4° 05.3' W | <b>2 Fl.(3)G.</b><br>period 10s              | 17<br>5       | 6                     | Mast; 13.   |   |
| 5440<br>A 5155                     | -St. George's pier.                                      | 53° 13.5' N<br>4° 09.4' W | <b>Fl.G.</b><br>period 10s<br>fl. 1s, ec. 9s |               |                       | Mast.   |   |
| 5444<br>A 5156.5                   | -Price Point.  | 53° 13.1' N<br>4° 10.4' W | <b>Fl.W.R.</b><br>period 2s                  | 15<br>5       | 3                     | White beacon; 16.   | R. 059°-239°, W.-259°.  |
| 5448<br>A 5157                     | -Britannia Tubular Bridge<br>Caernarvon shore, front.    | 53° 12.9' N<br>4° 11.0' W | <b>F.W.</b>                                  |               |                       | Metal framework tower; 16.  | Shown from Apr. to Sep.   |

| (1)<br>No.                         | (2)<br>Name and Location                           | (3)<br>Position           | (4)<br>Characteristic  | (5)<br>Height | (6)<br>Range | (7)<br>Structure                          | (8)<br>Remarks   |
|------------------------------------|--|---------------------------|--|---------------|--------------|---|--|
| <b>WALES-NORTH AND WEST COASTS</b> |  |                           |  |               |              |   |  |
| 5452<br>A 5157.1                   | --Rear, 45 meters 231° from front.                 | 53° 12.9' N<br>4° 11.0' W | <b>F.W.</b>  |               |              | Metal framework tower; 30.                | Shown from Apr. to Sep.  |
| 5456<br>A 5157.1                   | -Center of span.                                   | 53° 12.9' N<br>4° 11.0' W | <b>Iso.W.</b><br>period 5s   | 89<br>27      | 3            | Bridge.                                   | 1 on either side of bridge.  |
| 5464<br>A 5160                     | <b>Point Lynas.</b>                                | 53° 25.0' N<br>4° 17.4' W | <b>Oc.W.</b><br>period 10s<br>lt. 7.3s, ec. 2.7s                           | 128<br>39     | 18           | White tower; 36.                          | Visible 109°-315°. Shown 24 hours.<br><b>DGPS Station.</b>   |
| 5465<br>A 5164.4                   | -Main Breakwater.                                  | 53° 25.0' N<br>4° 19.8' W | <b>Fl.G.</b><br>period 15s   | 36<br>11      | 3            | White mast; 20.                           | Visible 141°-271°.   |
| 5466<br>A 5164.5                   | -Inner Breakwater.                                 | 53° 25.0' N<br>4° 19.9' W | <b>2 F.R.</b> (vert.)  | 39<br>12      | 5            | White mast; 23.                           | Visible 164°-239°. 2 meters apart.   |
| 5468<br>A 5166                     | Wylfa Power station pier, head.                    | 53° 25.5' N<br>4° 29.5' W | <b>2 F.G.</b> (vert.)  | 42<br>13      | 6            |   |  |
| 5472<br>A 5168                     | <b>Skerries.</b>                                   | 53° 25.3' N<br>4° 36.5' W | <b>Fl.(2)W.</b><br>period 15s<br>fl. 0.1s, ec. 3.2s<br>fl. 0.1s, ec. 11.6s | 119<br>36     | 20           | White round tower, red band; 75.          | Shown in reduced visibility.<br><b>AIS</b> (MMSI No 992351121).<br><b>Horn:</b> 2 bl. ev. 60s (bl. 1s, si. 2s, bl. 1s, si. 56s). |
|                                    |  |                           | <b>Iso.R.</b><br>period 4s   | 85<br>26      | 10           |   | Visible 233°-252°.   |
|                                    | RACON  |                           | <b>T(-)</b>  |               | 25           |   | (3 & 10cm).  |
| <b>WALES-WEST COAST</b>            |  |                           |  |               |              |   |  |
| HOLYHEAD:                          |  |                           |  |               |              |   |  |
| 5476<br>A 5174                     | -Breakwater, head.                                 | 53° 19.9' N<br>4° 37.2' W | <b>Fl.(3)G.</b><br>period 10s  | 70<br>21      | 14           | White square stone tower, black band; 62. | <b>Siren:</b> 1 bl. ev. 20s (bl. 3s, si. 17s).   |
|                                    |  |                           | <b>Fl.Y.</b>   |               |              |   | Visible 354°-046°.   |
| 5478<br>A 5174.5                   | --Elbow.   | 53° 19.5' N<br>4° 37.6' W | <b>2 F.G.</b> (vert.)  |               | 2            | Metal structure.                          | Visible 226°-089°.   |
| -Old Harbor:                       |  |                           |  |               |              |   |  |
| 5484<br>A 5178                     | --128 meters E. off breakwater, head.              | 53° 18.9' N<br>4° 37.0' W | <b>2 F.G.</b> (vert.)  | 26<br>8       | 5            | Concrete mast, dolphin; 26.               |  |
| 5492<br>A 5181                     | --South quay, head.                                | 53° 18.7' N<br>4° 37.2' W | <b>2 F.R.</b> (vert.)  | 23<br>7       |              | Metal mast, red square daymark; 16.       | Visible in dredged channel. 2 meters apart.  |
| 5496<br>A 5182                     | --Outer dredged channel, N. side.                  | 53° 18.8' N<br>4° 37.5' W | <b>Fl.G.</b><br>period 3s  | 23<br>7       |              | Beacon.                                   | Visible in dredged channel.  |
| 5500<br>A 5184                     | --Inner dredged channel, N. side.                  | 53° 18.8' N<br>4° 37.6' W | <b>Fl.G.</b><br>period 5s  | 20<br>6       |              | Beacon.                                   |  |
| -Inner Harbor:                     |  |                           |  |               |              |   |  |
| 5504<br>A 5186                     | --E. side of entrance, near N. end of public quay. | 53° 18.8' N<br>4° 37.4' W | <b>2 F.R.</b> (vert.)  | 20<br>6       | 5            | Mast.                                     |  |
| 5512<br>A 5198                     | -New Harbor, Mackenzie pier.                       | 53° 19.0' N<br>4° 38.0' W | <b>Fl.R.</b><br>period 5s  |               |              |   |  |
| 5520<br>A 5204                     | <b>South Stack.</b>                                | 53° 18.4' N<br>4° 42.0' W | <b>Fl.W.</b><br>period 10s<br>fl. 0.2s, ec. 9.8s                           | 197<br>60     | 24           | White round tower; 92.                    | Obscured by N. Stack to the N.<br><b>Horn:</b> 1 bl. ev. 30s (bl. 3s, si. 27s).  |
| 5522<br>A 5205                     | Valley Airfield AVIATION LIGHT.                    | 53° 14.9' N<br>4° 31.5' W | <b>Mo.(VY)R.</b>   |               |              |   | Occasional.  |

| (1)<br>No.              | (2)<br>Name and Location           | (3)<br>Position           | (4)<br>Characteristic   | (5)<br>Height | (6)<br>Range   | (7)<br>Structure                         | (8)<br>Remarks  |
|-------------------------|------------------------------------|---------------------------|---|---------------|----------------|--|---|
| <b>WALES-WEST COAST</b> |                                    |                           |   |               |                |  |   |
| CAERNARVON BAY:         |                                    |                           |   |               |                |  |   |
| -Menai Strait:          |                                    |                           |   |               |                |  |   |
| 5528<br>A 5210          | --Llandwyn Island, SW. head.       | 53° 08.0' N<br>4° 24.8' W | <b>Fl.W.R.</b><br>period 2.5s<br>fl. 0.3s, ec. 2.2s                 | 39<br>12      | W. 7<br>R. 4   | White tower.                             | R. 280°-015°, W.-120°.  |
| 5532<br>A 5212          | --Abermenai.                       | 53° 07.6' N<br>4° 19.6' W | <b>Fl.W.R.</b><br>period 3.5s<br>fl. 0.5s, ec. 3s                   | 20<br>6       | 3              | White mast; 16.                          | W. 245°-065°, R.-245°.  |
| 5536<br>A 5213          | --Tidal basin, S. pier, head.      | 53° 08.6' N<br>4° 16.6' W | <b>2 F.G.</b> (vert.)   | 16<br>5       | 2              | Stone column.                            |   |
| 5540<br>A 5214          | --Pile pier, head.                 | 53° 08.7' N<br>4° 16.4' W | <b>2 F.G.</b> (vert.)   | 16<br>5       | 2              | White tower, black stripes; 13.          |   |
| 5544<br>A 5220          | -Port Dinorwic, pier, head.        | 53° 11.2' N<br>4° 12.6' W | <b>F.W.R.</b>   | 16<br>5       | 2              | Post; 9.                                 | R. 225°-357°, W.-225°.  |
| 5548<br>A 5234          | <b>Bardsey.</b>                    | 52° 45.0' N<br>4° 47.9' W | <b>Fl.R.</b><br>period 10s<br>fl. 0.7s, ec. 9.3s                    | 129<br>39     | 18             | White square tower, red bands; 98.       | Visible 260°-198°. Partially obscured 250°-260° when in Tremadoc Bay.                         |
| 5552<br>A 5238          | St. Tudwal's W. Island.            | 52° 48.0' N<br>4° 28.2' W | <b>Fl.W.R.</b><br>period 15s<br>fl. 1s, ec. 14s                     | 151<br>46     | W. 14<br>R. 10 | White round tower; 35.                   | W. 349°-169°, R.-221°, W.-243°, R.-259°, W.-293°, R.-349°. Obscured by East Island 211°-231°. |
| 5556<br>A 5246          | Barmouth, N. Bank.                 | 52° 42.8' N<br>4° 03.7' W | <b>Q.(6)+L.Fl.W.</b><br>period 15s                                  |               |                | S. CARDINAL<br>YB, beacon, topmark.      |   |
| 5560<br>A 5254          | Aberystwyth, S. pier, head.        | 52° 24.4' N<br>4° 05.5' W | <b>Fl.(2)W.G.</b><br>period 10s<br>fl. 1s, ec. 1s<br>fl. 1s, ec. 7s | 39<br>12      | 10             | Green column, white bands; 39.           | G. 030°-053°, W.-210°. 2 F.R. range lights shown near inner end of S. pier.                   |
| 5564<br>A 5256          | -Timber jetty, head.               | 52° 24.4' N<br>4° 05.3' W | <b>Q.W.R.</b>   | 29<br>9       | 4              | Red column, white bands; 13.             | W. 244°-141°, R.-175°.  |
| 5566<br>A 5257          | Aberaeron, S. pier.                | 52° 14.6' N<br>4° 15.9' W | <b>Fl.(3)G.</b><br>period 10s                                       | 36<br>11      | 6              | White post, green bands.                 | Visible 050°-243°.  |
| 5566.5<br>A 5257.2      | -N. pier.                          | 52° 14.6' N<br>4° 15.9' W | <b>Fl.(4)W.R.G.</b><br>period 15s                                   | 33<br>10      | 6              | White post, red bands.                   | G. 050°-104°, W.-178°, R.-232°.   |
| 5568<br>A 5258          | New Quay, pier, head.              | 52° 12.9' N<br>4° 21.2' W | <b>Fl.W.G.</b><br>period 3s<br>fl. 1s, ec. 2s                       | 39<br>12      | W. 8<br>G. 5   | Post.                                    | W. 135°-252°, G.-295°.  |
| 5569.1<br>A 5258.6      | -Cardigan Beacon.                  | 52° 06.4' N<br>4° 41.4' W | <b>Fl.(2)W.</b><br>period 5s  |               |                | ISOLATED DANGER<br>BRB, beacon, topmark. |   |
| FISHGUARD HARBOUR:      |                                    |                           |   |               |                |  |   |
| 5572<br>A 5262          | -N. breakwater, head.              | 52° 00.8' N<br>4° 58.2' W | <b>Fl.G.</b><br>period 4.5s<br>fl. 0.5s, ec. 4s                     | 60<br>18      | 13             | Octagonal concrete tower; 67.            | <b>Bell:</b> 1 str. ev. 8s.   |
| 5576<br>A 5264          | -E. breakwater, head.              | 52° 00.3' N<br>4° 58.9' W | <b>Fl.R.</b><br>period 3s<br>fl. 0.3s, ec. 2.7s                     | 33<br>10      | 5              | Metal framework tower; 36.               |   |
| 5580<br>A 5266          | -Range, front.                     | 52° 00.7' N<br>4° 59.3' W | <b>F.G.</b>   | 253<br>77     | 5              | White mast, white diamond daymark.       |   |
| 5584<br>A 5266.1        | --Rear, 46 meters 282° from front. | 52° 00.7' N<br>4° 59.3' W | <b>F.G.</b>   | 291<br>89     | 5              | White mast, white diamond daymark; 26.   |   |
| 5588<br>A 5270          | Penanglas, near point, FOG SIGNAL. | 52° 01.5' N<br>4° 59.4' W |   |               |                | White obelisk.                           | <b>Diaphone:</b> 2 quick bl. ev. 60s.   |



| (1)<br>No.              | (2)<br>Name and Location   | (3)<br>Position           | (4)<br>Characteristic   | (5)<br>Height | (6)<br>Range   | (7)<br>Structure   | (8)<br>Remarks   |
|-------------------------|--|---------------------------|---|---------------|----------------|--|--|
| <b>WALES-WEST COAST</b> |  |                           |   |               |                |  |  |
| 5592<br>A 5274          | <b>Strumble Head.</b>  | 52° 01.8' N<br>5° 04.4' W | <b>Fl.(4)W.</b><br>period 15s<br>fl. 0.1s, ec. 2.2s<br>fl. 0.1s, ec. 2.2s<br>fl. 0.1s, ec. 2.2s<br>fl. 0.1s, ec. 8s | 148<br>45     | 26             | White round tower; 56.   | Visible 038°-257°. Shown 24 hours.   |
| 5596<br>A 5276          | <b>South Bishop.</b>   | 51° 51.2' N<br>5° 24.7' W | <b>Fl.W.</b><br>period 5s<br>fl. 0.1s, ec. 4.9s   | 144<br>44     | 16             | White round tower; 36.   | <b>Horn:</b> 3 bl. ev. 45s (bl. 1s, si. 1s, bl. 1s, si. 1s, bl. 1s, si. 40s).  |
|                         | RACON  |                           | <b>O(— — —)</b>   |               | 10             |  | (3 & 10cm).  |
| 5600<br>A 5278          | <b>The Smalls.</b>   | 51° 43.3' N<br>5° 40.2' W | <b>Fl.(3)W.</b><br>period 15s<br>fl. 0.1s, ec. 2.5s<br>fl. 0.1s, ec. 2.5s<br>fl. 0.1s, ec. 9.7s                     | 118<br>36     | 18             | Gray round tower, red top; 135.                                    | Shown in reduced visibility.<br><b>AIS</b> (MMSI No 992351123).<br><b>Horn:</b> 2 bl. ev. 60s (bl. 1s, si. 2s, bl. 1s, si. 56s).   |
|                         |  |                           | <b>Iso.R.</b><br>period 4s  | 108<br>33     | 13             |  | Visible 253°-285°.   |
|                         | RACON  |                           | <b>T(—)</b>   |               | 10             |  | (3 & 10cm).  |
| 5604<br>A 5282          | <b>Skokholm.</b>   | 51° 41.6' N<br>5° 17.2' W | <b>Fl.W.R.</b><br>period 10s<br>fl. 0.2s, ec. 9.8s  | 177<br>54     | 8              | White octagonal tower; 59.   | W. 301°-154°, R.-301°. Partially obscured 226°-258°.   |
| MILFORD HAVEN:          |  |                           |   |               |                |  |  |
| 5608<br>A 5284          | <b>-St. Ann's Head.</b>  | 51° 40.9' N<br>5° 10.4' W | <b>Fl.W.R.</b><br>period 5s<br>fl. 0.7s, ec. 4.3s   | 157<br>48     | W. 18<br>R. 14 | White octagonal tower; 43.   | W. 233°-247°, R.-332°, W.-131°. Partially obscured 124°-129°. <b>Horn:</b> (150 meters WSW. of light) 2 bl. ev. 60s (bl. 5s, si. 5s, bl. 5s, si. 45s). <b>Radar reflector.</b> |
| 5612<br>A 5285          | <b>-Middle Channel Rocks.</b>  | 51° 40.3' N<br>5° 09.8' W | <b>Fl.(3)G.</b><br>period 7s<br>fl. 0.1s, ec. 1.6s<br>fl. 0.1s, ec. 1.6s<br>fl. 0.1s, ec. 3.5s                      | 58<br>18      | 8              | Black round metal tower, aluminum lantern.                         |  |
| 5616<br>A 5286          | <b>-Entrance, First Range, front, West Blockhouse Point.</b>             | 51° 41.3' N<br>5° 09.5' W | <b>F.W.</b>   | 178<br>54     | 13             | White concrete tower, black rectangular daymark, white stripe; 43. | Visible 004°30'-040°30'. Range 10M by day.   |
|                         | -RACON   |                           | <b>Q(— • • —)</b>   |               |                |  | Azimuth coverage 010°-230°. (3 & 10cm).  |
| 5620<br>A 5286.3        | <b>--Watwick Point, common rear 926 meters 022°30' from front.</b>       | 51° 41.8' N<br>5° 09.2' W | <b>F.W.</b>   | 262<br>80     | 15             | Black rectangular daymark, white stripe; 164.                      | Visible 013°30'-031°30'. Range 10M by day.   |
|                         | --RACON  |                           | <b>Y(— • • —)</b>   |               |                |  | (3 & 10cm).  |
| 5624<br>A 5286.1        | <b>-Auxiliary front, in line 021°18' with common rear Watwick Point.</b> | 51° 41.3' N<br>5° 09.5' W | <b>F.R.</b>   | 175<br>53     | 12             | White concrete tower, black diamond daymark; 49.                   | Visible 014°-031°. Range 5M by day. Watwick Point marks E. side of channel.  |
| 5628<br>A 5286.2        | <b>-Auxiliary front, in line 023°42' with common rear Watwick Point.</b> | 51° 41.3' N<br>5° 09.5' W | <b>F.R.</b>   | 175<br>53     | 12             | White concrete tower, black diamond daymark; 35.                   | Visible 014°-031°. Range 5M by day, visible 017°-028°. Watwick Point marks W. side of channel.   |

| (1)<br>No.              | (2)<br>Name and Location  | (3)<br>Position           | (4)<br>Characteristic  | (5)<br>Height | (6)<br>Range         | (7)<br>Structure   | (8)<br>Remarks  |
|-------------------------|---|---------------------------|--|---------------|----------------------|--|---|
| <b>WALES-WEST COAST</b> |   |                           |  |               |                      |  |   |
| 5632<br>A 5287          | <b>-Great Castle Head.</b>  | 51° 42.6' N<br>5° 07.0' W | <b>F.W.R.G.</b>  | 89<br>27      | W. 5<br>R. 3<br>G. 3 | White square tower, black stripe; 16.                                    | R. 243°-281°, G.-299°, W.-029°. Shown by day on request.  |
|                         |   |                           | <b>Dir.W.R.G.</b>  |               |                      |  | F.G. 038°15'-039°00',<br>Al.W.G.-039°30', F.W.-040°30', Al.W.R.-041°00',<br>F.R.-041°45'.                       |
|                         | --Range, front.   |                           | <b>Oc.W.</b><br>period 4s  | 89<br>27      | <b>15</b>            |  | Visible 031°12'-048°12'.<br>Range 10M by day, visible<br>032°12'-047°12'.                                       |
| 5636<br>A 5287.1        | <b>--Little Castle Head, rear, 890 meters 039°42' from front.</b> | 51° 43.0' N<br>5° 06.5' W | <b>Oc.W.</b><br>period 8s<br>lt. 6s, ec. 2s                            | 173<br>53     | <b>15</b>            | White round concrete tower, white rectangular daymark, black stripe; 85. | Visible 031°12'-048°12'.<br>Range 10M by day, visible<br>032°12'-047°12'.                                       |
| 5640<br>A 5291          | -West Blockhouse Point.   | 51° 41.3' N<br>5° 09.5' W | <b>Q.W.R.</b>  | 70<br>21      | W. 9<br>R. 7         | Red lantern, white base; 7.  | W. 220°-250°, R.-020°, W.-036°, R.-049°.  |
| 5644<br>A 5292          | -Dale Fort.   | 51° 42.1' N<br>5° 08.9' W | <b>Fl.(2)W.R.</b><br>period 5s<br>fl. 0.5s, ec. 1s<br>fl. 0.5s, ec. 3s | 64<br>20      | W. 5<br>R. 3         | Metal column; 10.  | R. 222°-276°, W.-019°.  |
| 5648<br>A 5292.39       | -Popton Point Range, front, 274° from common rear.                | 51° 41.7' N<br>5° 03.0' W | <b>Iso.Y.</b><br>period 1.5s   | 36<br>11      | 13                   | White diamond daymark, black stripe.                                     | Visible 084°-104°. Range 5M by day, visible<br>089°30'-098°30'.   |
| 5652<br>A 5292.4        | --Common rear.  | 51° 41.6' N<br>5° 02.1' W | <b>Oc.W.</b><br>period 4s<br>lt. 3s, ec. 1s                            | 62<br>19      | 14                   | Metal framework tower, white triangular daymark point up, black stripe.  | Visible 085°-105°. Range 7M by day, visible<br>090°30'-099°30'.   |
|                         |   |                           | <b>Iso.Y.</b><br>period 1.5s   |               |                      |  |   |
|                         |   |                           | <b>F.Bu.</b>   | 98<br>30      | 8                    |  |   |
| 5656<br>A 5292.41       | --Front, 275° from common rear.                                   | 51° 41.7' N<br>5° 03.0' W | <b>Iso.W.</b><br>period 1.5s   | 36<br>11      | 14                   | Metal framework tower, white round daymark, black stripe.                | Visible 085°-105°. Range 7M by day, visible<br>090°30'-099°30'.   |
| 5660<br>A 5294.9        | -S. Range, front, 330 meters 260° from rear.                      | 51° 42.2' N<br>5° 00.4' W | <b>Oc.W.</b><br>period 3s<br>lt. 2s, ec. 1s                            | 138<br>42     | 14                   | Metal framework tower, white rectangular daymark, black stripe; 33.      | Visible 070°-090°. Range 7M by day, visible<br>075°30'-084°30'.   |
| 5664<br>A 5295          | --Common rear.  | 51° 42.2' N<br>5° 00.1' W | <b>Oc.W.Y.</b><br>period 3s<br>lt. 2s, ec. 1s                          | 167<br>51     | W. 14<br>Y. 13       | Metal framework tower, white rectangular daymark, black stripe; 26.      | W. 070°-090° and Y. 077°-097°. Range W. 7M and Y. 5M by day, visible W. 075°30'-084°30° and Y. 082°30'-091°30'. |
| 5668<br>A 5295.1        | -N. Range, front, 320 meters 267° from rear.                      | 51° 42.2' N<br>5° 00.3' W | <b>Oc.Y.</b><br>period 3s<br>lt. 2s, ec. 1s                            | 135<br>41     | 13                   | Metal framework tower, white octagonal daymark, black stripe; 16.        | Visible 077°-097°. Range 5M by day, visible<br>082°30'-091°30'.   |
| 5669<br>A 5313.6        | -Dragon Terminal, W. side, front.                                 | 51° 42.0' N<br>5° 00.2' W | <b>F.Bu.</b>   | 30<br>9       | 7                    | Dolphin.   | Shown on request from Milford Haven Port Control.<br><b>Horn:</b> Mo.(U) ev. 30s. Occasional.                   |
|                         |   |                           | <b>3 F.R. (vert.)</b>  | 26<br>8       |                      |  |   |
| 5669.1<br>A 5313.61     | --Rear, 090°50' from front.                                       | 51° 42.0' N<br>4° 59.4' W | <b>F.Bu.</b>   | 69<br>21      | 7                    | White rectangular daymark, gray stripe.                                  | Shown on request from Milford Haven Port Control. Occasional.   |
|                         | -Milford:   |                           |  |               |                      |  |   |
| 5672<br>A 5307          | --E. pier Range, front.   | 51° 42.6' N<br>5° 02.1' W | <b>F.Bu.</b>   | 16<br>5       |                      | Black hut; 16.   | LED strip light.  |
| 5676<br>A 5307.1        | --Rear, 299 meters 348° from front.                               | 51° 42.7' N<br>5° 02.2' W | <b>F.Bu.</b>   | 66<br>20      |                      | Black column; 13.  | LED strip light.  |

| (1)<br>No.                   | (2)<br>Name and Location                                     | (3)<br>Position           | (4)<br>Characteristic  | (5)<br>Height | (6)<br>Range  | (7)<br>Structure  | (8)<br>Remarks                      |
|------------------------------|--|---------------------------|--|---------------|---------------|---|-------------------------------------|
| <b>WALES-WEST COAST</b>      |  |                           |  |               |               |   |                                     |
| 5680<br>A 5308               | --W. pier, head.   | 51° 42.2' N<br>5° 02.2' W | <b>2 F.R.</b> (vert.)  | 29<br>9       |               | White mast; 29.   |                                     |
| 5692<br>A 5310.2             | -Newton Noyes, pier, head.                                   | 51° 42.1' N<br>5° 00.7' W | <b>2 F.R.</b> (vert.)  | 19<br>6       | 3             | Black metal mast; 16.   | 2 F.R. (vert.) also shown at elbow. |
| 5696<br>A 5311.2             | -Wear Spit Range, front.                                     | 51° 41.8' N<br>4° 58.8' W | <b>Q.R.</b>  | 24<br>7       | 8             | Black round column, triangular daymark point up, red and white stripes. |                                     |
| 5700<br>A 5311.21            | --Rear, 0.78 mile 098°24' from front, on SW. Martello tower. | 51° 41.6' N<br>4° 57.5' W | <b>Iso.R.</b><br>period 4s   | 46<br>14      | 3             |   |                                     |
| 5704<br>A 5311               | -Pennar Range, front.  | 51° 41.6' N<br>4° 58.2' W | <b>Q.W.</b>  | 24<br>7       | 8             | Pile, black triangular daymark point up, white stripe.                  |                                     |
| 5708<br>A 5311.1             | --Llanreath, rear, 640 meters 101°48' from front.            | 51° 41.5' N<br>4° 57.7' W | <b>Iso.W.</b><br>period 4s   | 29<br>9       | 14            | Pile, black triangular daymark point up, white stripe.                  | Visible 097°-105°.                  |
| 5712<br>A 5316               | -Pembroke dock Range, front.                                 | 51° 41.8' N<br>4° 57.3' W | <b>Q.G.</b>  | 16<br>5       |               | White diamond daymark, black stripe.                                    |                                     |
| 5716<br>A 5316.1             | --Rear, 82 meters 153° from front.                           | 51° 41.8' N<br>4° 57.3' W | <b>Q.G.</b>  | 30<br>9       |               | White diamond daymark, black stripe.                                    |                                     |
| <b>WALES-BRISTOL CHANNEL</b> |  |                           |  |               |               |   |                                     |
| 5720<br>A 5317               | --Carr jetty, head.  | 51° 41.9' N<br>4° 57.4' W | <b>2 F.G.</b> (vert.)  | 49<br>15      |               |   |                                     |
| 5724<br>A 5317.2             | ---Elbow.  | 51° 41.9' N<br>4° 57.4' W | <b>2 F.G.</b> (vert.)  | 49<br>15      |               |   |                                     |
| 5725<br>A 5319.5             | -Fish Farm, NW. head.  | 51° 42.1' N<br>4° 55.5' W | <b>2 F.G.</b> (vert.)  |               |               |   |                                     |
| 5726<br>A 5319.6             | --SE. head.  | 51° 42.1' N<br>4° 55.3' W | <b>2 F.G.</b> (vert.)  |               |               |   |                                     |
| 5728<br>A 5322               | St. Gowan Buoy.  | 51° 31.9' N<br>4° 59.7' W | <b>Q.(6)+L.F.I.W.</b><br>period 15s  |               |               | S. CARDINAL<br>YB, pillar, topmark.                                     | <b>Whistle.</b>                     |
|                              | RACON  |                           | <b>T(-)</b>  |               | 10            |   | (3 & 10cm).                         |
| CARMARTHEN BAY:              |  |                           |  |               |               |   |                                     |
| 5732<br>A 5328               | -Caldy Island, S. side.                                      | 51° 37.9' N<br>4° 41.1' W | <b>Fl.(3)W.R.</b><br>period 20s<br>fl. 0.9s, ec. 1.1s<br>fl. 0.9s, ec. 1.1s<br>fl. 0.9s, ec. 15.1s | 214<br>65     | W. 13<br>R. 9 | White round tower; 52.  | R. 173°-212°, W.-088°, R.-102°.     |
|                              | -Tenby:  |                           |  |               |               |   |                                     |
| 5736<br>A 5336               | --Harbor pier, head.   | 51° 40.4' N<br>4° 41.9' W | <b>F.R.</b>  | 24<br>7       | 7             | Metal mast; 16.   |                                     |
| 5740<br>A 5338               | --Harbor pier, near head.                                    | 51° 40.4' N<br>4° 41.8' W | <b>F.W.</b>  | 20<br>6       | 1             | Post; 10.   |                                     |
| 5744<br>A 5342               | -Saundersfoot, S. pier, head.                                | 51° 42.6' N<br>4° 41.7' W | <b>Fl.R.</b><br>period 5s<br>fl. 1s, ec. 4s  | 21<br>6       | 7             | Stone cupola; 12.   |                                     |
| 5748<br>A 5356               | -Burry Port.   | 51° 40.6' N<br>4° 15.0' W | <b>Fl.W.</b><br>period 5s  | 24<br>7       | 7             | White tower, red top.   |                                     |
| 5754                         | W. Helwick Buoy.   | 51° 31.4' N<br>4° 23.6' W | <b>Q.(9)W.</b><br>period 15s   |               |               | W. CARDINAL<br>YBY, pillar, topmark.                                    | <b>Whistle.</b>                     |
|                              | RACON  |                           | <b>T(-)</b>  |               | 10            |   | (3 & 10cm).                         |

| (1)<br>No.                   | (2)<br>Name and Location                | (3)<br>Position           | (4)<br>Characteristic  | (5)<br>Height | (6)<br>Range | (7)<br>Structure  | (8)<br>Remarks   |
|------------------------------|---|---------------------------|--|---------------|--------------|---|--|
| <b>WALES-BRISTOL CHANNEL</b> |   |                           |  |               |              |   |  |
| SWANSEA BAY:                 |   |                           |  |               |              |   |  |
| 5756<br>A 5358               | -Mumbles.                               | 51° 34.0' N<br>3° 58.3' W | <b>Fl.(4)W.</b><br>period 20s<br>fl. 0.8s, ec. 1.7s<br>fl. 0.8s, ec. 1.7s<br>fl. 0.8s, ec. 1.7s<br>fl. 0.8s, ec. 11.7s | 114<br>35     | 15           | White octagonal tower; 56.                                    | <b>Horn:</b> 3 bl. ev. 60s (bl. 1.3s, si. 2s, bl. 1.3s, si. 2s, bl. 1.4s, si. 52s).                                      |
| -Swansea:                    |   |                           |  |               |              |   |  |
| 5760<br>A 5360               | --Railway pier.                         | 51° 34.2' N<br>3° 58.4' W | <b>2 F.R.</b> (vert.)  | 36<br>11      | 9            | White framework tower; 23.                                    |  |
| 5764<br>A 5364               | --W. pier, head.                        | 51° 36.5' N<br>3° 55.7' W | <b>Fl.(2)R.</b><br>period 10s<br>fl. 1.5s, ec. 1.5s<br>fl. 1.5s, ec. 5.5s  | 36<br>11      | 9            | Yellow metal column; 23.                                      | F.R. lights on radio mast 1.3 miles NNE.   |
| 5768<br>A 5367               | --E. breakwater, head.                  | 51° 36.4' N<br>3° 55.6' W | <b>2 F.G.</b> (vert.)  | 32<br>10      | 6            | Yellow framework tower; 23.                                   |  |
| 5769<br>A 5370               | --Barrage, E. side.                     | 51° 36.9' N<br>3° 55.6' W | <b>2 F.G.</b> (vert.)  | 16<br>5       | 1            | Metal post; 10.   | 2 meters apart.  |
| 5770<br>A 5370.2             | --W. side.                              | 51° 36.9' N<br>3° 55.7' W | <b>2 F.R.</b> (vert.)  | 16<br>5       | 1            | Metal post; 10.   | 2 meters apart.  |
| 5772<br>A 5367               | --New Approach jetty, Range, front.     | 51° 36.5' N<br>3° 55.5' W | <b>Oc.G.</b><br>period 4s  | 16<br>5       | 2            |   | Mark E. limit of dredged area. Obscured when bearing less than 020°. Conspicuous R. and G. traffic signals 300 meters N. |
| 5776<br>A 5367.1             | ---Rear, 260 meters 020° from front.    | 51° 36.7' N<br>3° 55.4' W | <b>F.G.</b>  |               | 6            |   |  |
| 5780<br>A 5369               | -Car Ferry terminal, S. head.           | 51° 36.8' N<br>3° 55.5' W | <b>2 F.G.</b> (vert.)  | 30<br>9       | 5            |   | 3 meters apart.  |
| -Neath River Entrance:       |   |                           |  |               |              |   |  |
| 5784<br>A 5374               | --Monkstone.                            | 51° 36.3' N<br>3° 51.9' W | <b>Fl.(2)G.</b><br>period 6s   | 20<br>6       | 5            | Green mast; 43.   | F.R. lights on chimney 1.45 miles ENE.<br><br>Emergency light.   |
| 5788<br>A 5376               | --Middle of training wall.              | 51° 36.7' N<br>3° 51.3' W | <b>Fl.G.</b><br>period 1.5s  | 20<br>6       | 5            | Green mast; 43.   |  |
| 5792<br>A 5377               | --Training wall, N. head.               | 51° 37.1' N<br>3° 50.8' W | <b>Fl.(3)G.</b><br>period 10s  | 20<br>6       | 5            | Green mast; 30.   | Reserve light 2 F.G. (vert.).  |
| 5794<br>A 5373               | --Entrance.                             | 51° 37.2' N<br>3° 50.6' W | <b>F.Bu.</b>   |               | 8            | Metal framework mast; 26.                                     |  |
| <b>2 F.R.</b> (vert.)        |   |                           |  |               |              |   |  |
| 5797<br>A 5381               | -Baglan Brook. Pumping station.         | 51° 37.4' N<br>3° 49.9' W | <b>2 F.G.</b> (vert.)  |               |              | Green beacon.   |  |
| -Port Talbot:                |   |                           |  |               |              |   |  |
| 5800<br>A 5391               | --Range, front.                         | 51° 35.0' N<br>3° 47.7' W | <b>Oc.R.</b><br>period 3s<br>lt. 2s, ec. 1s  | 39<br>12      | 6            | Metal framework tower, yellow and orange diamond daymark; 39. | Shown on request.  |
| 5804<br>A 5391.1             | ---Rear, 400 meters 059°49' from front. | 51° 35.0' N<br>3° 47.7' W | <b>Oc.R.</b><br>period 6s  | 105<br>32     | 6            | Metal framework tower, yellow and orange diamond daymark; 98. | Shown on request.  |
| 5805<br>A 5389               | -N. breakwater, head.                   | 51° 34.8' N<br>3° 49.0' W | <b>Fl.(4)R.</b><br>period 10s<br>fl. 0.7s, ec. 1s<br>fl. 0.7s, ec. 1s<br>fl. 0.7s, ec. 1s<br>fl. 0.7s, ec. 4.2s        | 36<br>11      | 3            | Metal framework tower.  |  |

| (1)<br>No.                   | (2)<br>Name and Location                   | (3)<br>Position           | (4)<br>Characteristic   | (5)<br>Height | (6)<br>Range         | (7)<br>Structure                       | (8)<br>Remarks  |
|------------------------------|--|---------------------------|---|---------------|----------------------|--|---|
| <b>WALES-BRISTOL CHANNEL</b> |  |                           |   |               |                      |  |   |
| 5806<br>A 5390               | -S. breakwater, head.                      | 51° 34.4' N<br>3° 49.0' W | <b>Fl.G.</b><br>period 3s<br>fl. 0.5s, ec. 2.5s   | 36<br>11      | 3                    | Metal framework tower.                 |   |
| 5807<br>A 5394               | --Ore terminal, head.                      | 51° 34.4' N<br>3° 48.2' W | <b>2 F.Y.</b> (vert.)   | 29<br>9       | 1                    | Concrete column, dolphin.              | 2 meters apart.   |
| 5808<br>A 5395               | --Dredged area, NE. side.                  | 51° 34.8' N<br>3° 48.3' W | <b>Fl.R.</b><br>period 2s   | 26<br>8       | 2                    | Concrete column, dolphin.              |   |
| 5808.1<br>A 5395.2           | ---E. side.                                | 51° 34.6' N<br>3° 48.0' W | <b>Fl.R.</b><br>period 2s   | 20<br>6       | 1                    | Pile structure.                        |   |
| 5808.2<br>A 5395.3           | ----N. limit.                              | 51° 34.5' N<br>3° 47.7' W | <b>Iso.W.</b><br>period 2s  | 23<br>7       | 1                    | Mast.                                  | Marks N. limit of 15 meter dredged area.                      |
| 5808.3<br>A 5395.4           | ----S. limit.                              | 51° 34.3' N<br>3° 47.7' W | <b>Iso.W.</b><br>period 2s  |               | 2                    | Metal column.                          | Marks S. limit of 17.2 meter dredged area.                    |
| 5808.4<br>A 5395.6           | --S. side.                                 | 51° 34.3' N<br>3° 48.4' W | <b>Fl.G.</b><br>period 2s   | 26<br>8       | 2                    | Concrete column on dolphin.            |   |
| 5808.5<br>A 5395.8           | --SW. side.                                | 51° 34.4' N<br>3° 48.7' W | <b>Fl.G.</b><br>period 2s   | 26<br>8       | 2                    | Concrete column on dolphin.            |   |
| 5809                         | <i>Cabenda Buoy.</i>                       | 51° 33.3' N<br>3° 52.4' W | <b>V.Q.(6)+L.Fl.W.</b><br>period 10s  |               |                      | S. CARDINAL<br>YB, pillar, topmark.    |   |
|                              | RACON                                      |                           | <b>C(- • - •)</b>   |               |                      |  | (3 & 10cm).   |
| 5810                         | <i>W. Scarweather Buoy.</i>                | 51° 28.3' N<br>3° 55.5' W | <b>Q.(9)W.</b><br>period 15s  |               |                      | W. CARDINAL<br>YBY, pillar, topmark.   | <b>Bell.</b>  |
|                              | RACON                                      |                           | <b>T(-)</b><br>period 30s   |               | 10                   |  | (3 & 10cm).   |
| 5812<br>A 5402               | Porthcawl, breakwater, SE. head.           | 51° 28.4' N<br>3° 42.0' W | <b>F.W.R.G.</b>   | 34<br>10      | W. 6<br>R. 4<br>G. 4 | White hexagonal tower, black base; 30. | G. 302°-036°, W.-082°, R.-116°.                               |
| 5816<br>A 5406               | <b>Nash Point.</b>                         | 51° 24.1' N<br>3° 33.1' W | <b>Fl.(2)W.R.</b><br>period 15s<br>fl. 0.1s, ec. 3.7s<br>fl. 0.1s, ec. 11.1s                      | 184<br>56     | W. 21<br>R. 16       | White round tower; 122.                | R. 280°-290°, W.-100°, R.-120°, W.-128°. <b>DGPS Station.</b> |
| 5820<br>A 5406.6             | St. Hilary, AVIATION LIGHT.                | 51° 27.4' N<br>3° 24.2' W | <b>Q.R.</b>   | 1135<br>346   | 11                   | Mast; 751.                             |   |
|                              |  |                           | <b>4 F.R.</b> (vert.)   |               | 6                    |  |   |
| 5824<br>A 5407               | Breaksea Point, intake structure.          | 51° 22.5' N<br>3° 24.5' W | <b>Fl.R.</b>  | 37<br>11      |                      | Concrete tower.                        |   |
| 5832<br>A 5410               | Wenvoe, AVIATION LIGHT.                    | 51° 27.6' N<br>3° 16.9' W | <b>Q.W.</b>   | 1276<br>389   | 12                   | Mast; 879.                             | Shown 24 hours.<br>F.R. lights on radio mast nearby.          |
| <b>BARRY DOCK:</b>           |  |                           |   |               |                      |  |   |
| 5836<br>A 5412               | -W. breakwater, head.                      | 51° 23.5' N<br>3° 15.5' W | <b>Fl.W.</b><br>period 2.5s<br>fl. 0.1s, ec. 2.4s   | 40<br>12      | 10                   | White round tower; 30.                 |   |
| 5840<br>A 5419               | -No 3 Dock, entrance.                      | 51° 23.6' N<br>3° 15.6' W | <b>2 F.R.</b> (vert.)   |               |                      | Dolphin.                               | 2 meters apart.   |
| 5844<br>A 5413               | -E. breakwater, head.                      | 51° 23.5' N<br>3° 15.4' W | <b>Q.G.</b>   | 24<br>7       | 8                    | Mast; 17.                              |   |
| 5856<br>A 5411               | Barry Harbor, Yorke Rock breakwater, head. | 51° 23.4' N<br>3° 17.1' W | <b>2 F.G.</b> (vert.)   | 16<br>5       | 5                    | Column; 13.                            |   |
| 5860<br>A 5426               | <b>Flat Holm.</b>                          | 51° 22.5' N<br>3° 07.1' W | <b>Fl.(3)W.R.</b><br>period 10s<br>fl. 0.4s, ec. 1.6s<br>fl. 0.4s, ec. 1.6s<br>fl. 0.4s, ec. 5.6s | 164<br>50     | W. 15<br>R. 12       | White round tower; 98.                 | R. 106°-140°, W.-151°, R.-203°, W.-106°.                      |

| (1)<br>No.                   | (2)<br>Name and Location               | (3)<br>Position           | (4)<br>Characteristic   | (5)<br>Height      | (6)<br>Range            | (7)<br>Structure                                | (8)<br>Remarks   |
|------------------------------|--|---------------------------|---|--------------------|-------------------------|---|--|
| <b>WALES-BRISTOL CHANNEL</b> |  |                           |   |                    |                         |   |  |
| 5864<br>A 5428               | Monkstone Rock.                        | 51° 24.9' N<br>3° 06.0' W | <b>Fl.W.</b><br>period 5s<br>fl. 0.9s, ec. 4.1s                       | 43<br>13           | 12                      | Red fiberglass column, round masonry tower; 75. |  |
| CARDIFF:                     |  |                           |   |                    |                         |   |  |
| 5876<br>A 5440               | -Queen Alexandra dock, S. jetty.       | 51° 27.1' N<br>3° 09.5' W | <b>2 F.G.</b> (vert.)   |                    |                         |   |  |
| 5880<br>A 5440.3             | --N. jetty.                            | 51° 27.2' N<br>3° 09.7' W | <b>2 F.R.</b> (vert.)   |                    |                         |   |  |
| 5900<br>A 5430               | Penarth, Promenade pier, head.         | 51° 26.1' N<br>3° 09.9' W | <b>2 F.R.</b> (vert.)   | 26<br>8            | 3                       | Brown mast; 36.                                 | 2 meters apart.<br>Port signals.<br><b>Reed:</b> Mo.(BA) ev. 60s.<br>Sounded 10 min. before a vessel is expected.        |
| USK RIVER:                   |  |                           |   |                    |                         |   |  |
| 5904<br>A 5454               | -East Usk.                             | 51° 32.4' N<br>2° 58.0' W | <b>Fl.(2)W.R.G.</b><br>period 10s<br>fl. 1s, ec. 2s<br>fl. 1s, ec. 6s | 36<br>11           | W. 11<br>R. 10<br>G. 10 | White round tower; 43.                          | R. 324°-017°, W.-037°, G.-115°.  |
|                              |  |                           | <b>Oc.W.R.G.</b><br>period 10s<br>lt. 8s, ec. 2s                      | 33<br>10           | W. 11<br>R. 9<br>G. 9   |   | G. 013°-017°, W.-019°, R.-023°.  |
| 5908<br>A 5460               | -Alexandra Dock, W. pier, head.        | 51° 32.9' N<br>2° 59.2' W | <b>2 F.R.</b> (vert.)   | 30<br>9            | 6                       | White metal framework tower; 21.                | 2 meters apart.<br>Traffic signals.  |
| 5912<br>A 5462               | --E. pier, head.                       | 51° 33.0' N<br>2° 59.1' W | <b>2 F.G.</b> (vert.)   | 30<br>9<br>24<br>7 | 6                       | White framework tower; 20.                      | 2 meters apart.  |
| 5920<br>A 5467               | -Julian's Pill Range, front.           | 51° 33.3' N<br>2° 57.9' W | <b>F.Bu.</b>  | 17<br>5            | 5                       | Mast; 10.                                       |  |
| 5921<br>A 5467.1             | --Rear, 44 meters 062° from front.     | 51° 33.3' N<br>2° 57.9' W | <b>F.Bu.</b>  | 26<br>8            | 5                       | Mast; 20.                                       |  |
| 5928<br>A 5470               | -Alpha Steel Wharf, S. head.           | 51° 33.3' N<br>2° 57.9' W | <b>2 F.G.</b> (vert.)   | 13<br>4            |                         |   | 2 meters apart.  |
| 5932<br>A 5470.2             | --N. head.                             | 51° 33.4' N<br>2° 57.9' W | <b>2 F.G.</b> (vert.)   | 13<br>4            |                         |   | 2 meters apart.  |
| 5944<br>A 5472.5             | -Birdport, jetty.                      | 51° 33.7' N<br>2° 58.1' W | <b>2 F.G.</b> (vert.)   | 19<br>6            |                         |   | 2 meters apart.  |
| 5948<br>A 5473               | -Dallimores wharf.                     | 51° 33.9' N<br>2° 58.6' W | <b>2 F.G.</b> (vert.)   |                    |                         |   |  |
| 5952<br>A 5474               | -Transporter Bridge, W. side.          | 51° 34.3' N<br>2° 59.2' W | <b>2 F.R.</b> (vert.)   |                    |                         |   | 2 F.Y. (vert.) shown on transporter car. Headway indicator lights for George Street bridge shown from E. pier of bridge. |
| 5956<br>A 5474.2             | --E. side.                             | 51° 34.2' N<br>2° 59.1' W | <b>2 F.G.</b> (vert.)   |                    |                         |   | On upstream and downstream sides of bridge piers.  |
|                              |  |                           | <b>Fl.R.</b><br>period 5s   |                    |                         | Pier.   | Air draft indicator light.   |
|                              |  |                           | <b>Fl.G.</b><br>period 5s   |                    |                         | Pier.   | Air draft indicator light.   |
| 5972<br>A 5478               | -Newport Bridge, center.               | 51° 35.4' N<br>2° 59.6' W | <b>F.Y.</b>   |                    |                         |   |  |
| 5976                         | <i>English and Welsh Grounds Buoy.</i> | 51° 26.9' N<br>3° 00.1' W | <b>L.Fl.W.</b><br>period 10s  |                    |                         | SAFE WATER<br>RW, pillar, topmark.              | <b>Whistle.</b>  |
| RACON                        |  |                           | T(—)  |                    | 7                       |   | (3 & 10cm).  |

| (1)<br>No.                     | (2)<br>Name and Location                 | (3)<br>Position           | (4)<br>Characteristic                             | (5)<br>Height | (6)<br>Range | (7)<br>Structure   | (8)<br>Remarks   |
|--------------------------------|--|---------------------------|---|---------------|--------------|--|--|
| <b>ENGLAND-BRISTOL CHANNEL</b> |  |                           |   |               |              |  |  |
| 5984<br>A 5535                 | Charston Rock.                           | 51° 35.3' N<br>2° 41.6' W | <b>Fl.W.</b><br>period 3s<br>fl. 0.5s, ec. 2.5s   | 16<br>5       | 8            | White round stone tower, black stripe; 23.                                 |  |
| 5988<br>A 5536                 | Redcliffe Range, front.                  | 51° 36.2' N<br>2° 41.3' W | <b>F.Bu.</b> (neon)                               | 51<br>16      |              | Black metal framework tower, white daymarks, lantern; 33.                  | Visible 358°-028°.   |
| 5992<br>A 5536.1               | --Rear, 320 meters 012°51' from front.   | 51° 36.4' N<br>2° 41.2' W | <b>F.Bu.</b> (neon)                               | 108<br>33     | 10           | Metal mast; 98.  |  |
| 5994<br>A 5541                 | Chapel Rock.                             | 51° 36.4' N<br>2° 39.1' W | <b>Fl.W.</b><br>period 2.6s<br>fl. 0.4s, ec. 2.2s | 19<br>6       | 8            | Black metal framework tower, white lantern; 26.                            |  |
| <b>AVON RIVER:</b>             |  |                           |   |               |              |  |  |
| 5996<br>A 5489                 | -Portbury wharf Range, front.            | 51° 29.5' N<br>2° 44.2' W | <b>Oc.G.</b><br>period 5s<br>lt. 3s, ec. 2s       | 23<br>7       | 3            | Gray mast; 26.   | Visible 171°30'-211°30'.<br>Visible 1M 184°30'-198°30' by day.                             |
| 6000<br>A 5489.1               | --Rear, 100 meters 191°33' from front.   | 51° 29.5' N<br>2° 44.2' W | <b>Oc.G.</b><br>period 5s<br>lt. 3s, ec. 2s       | 39<br>12      | 3            | Gray mast; 39.   | Visible 171°30'-211°30'.<br>Visible 1M 184°30'-198°30' by day.<br>Synchronized with front. |
| 6010<br>A 5490                 | -Seabank Range, front.                   | 51° 30.1' N<br>2° 43.8' W | <b>I.Q.W.</b>                                     | 43<br>13      | 5            | White mast; 33.  | Visible 070°18'-103°18'.<br>Visible 1M 076°48'-096°48' by day.                             |
|                                | -086°48'                                 |                           | <b>F.W.G.</b>                                     | 20<br>6       | 5            |  | F.G. 085°48'-086°42',<br>Al.W.G.-086°54', F.W.-<br>089°42'.<br>Range 1M by day.            |
| 6010.1<br>A 5490.1             | --Rear, 500 meters 086°47' from front.   | 51° 30.1' N<br>2° 43.4' W | <b>I.Q.W.</b>                                     | 52<br>16      | 5            | White mast; 43.  | Visible 070°18'-103°18'.<br>Visible 1M 076°48'-096°48' by day.                             |
| 6012<br>A 5490.2               | -W. Dock pier, head.                     | 51° 30.2' N<br>2° 43.7' W | <b>L.Fl.G.</b><br>period 15s<br>fl. 3s, ec. 12s   | 16<br>5       | 6            | White pillar; 6.   |  |
| 6016<br>A 5490.4               | --Pier corner.                           | 51° 30.1' N<br>2° 43.8' W | <b>Fl.G.</b><br>period 2s<br>fl. 0.8s, ec. 1.2s   | 23<br>7       | 7            | White pillar; 16.  | <b>Diaphone:</b> (40 meters NE.) 1 bl. ev. 30s.  |
| 6020<br>A 5490.6               | --Knuckle Range, front.                  | 51° 29.9' N<br>2° 43.7' W | <b>Oc.G.</b><br>period 5s<br>lt. 4s, ec. 1s       | 19<br>6       | 6            | White pillar; 10.  |  |
| 6020.1<br>A 5490.61            | --Rear, 165 meters 099°34' from front.   | 51° 29.9' N<br>2° 43.5' W | <b>F.G.</b>                                       | 43<br>13      | 6            | Building.  | Visible 044°-134°.   |
| 6024<br>A 5492                 | --Avonmouth Docks, N. pier, head.        | 51° 30.5' N<br>2° 43.1' W | <b>Fl.W.</b><br>period 4s<br>fl. 0.3s, ec. 3.7s   | 50<br>15      | 10           | Round stone tower; 52.   | Visible 060°-228°30'.  |
| 6032<br>A 5492.21              | --S. pier, head.                         | 51° 30.4' N<br>2° 43.1' W | <b>Oc.R.G.</b><br>period 30s<br>lt. 27s, ec. 3s   | 30<br>9       | 10           | Round stone tower; 30.   | R. 294°-036°, G.-194°,<br><b>Bell:</b> 1 str. ev. 10s.                                     |
| 6036<br>A 5494                 | --King Road Range, front, N. pier, head. | 51° 30.5' N<br>2° 43.1' W | <b>Oc.R.</b><br>period 5s<br>lt. 4.5s, ec. 0.5s   | 16<br>5       | 9            | White obelisk, red bands; 7.   | Visible 062°-082°.   |
| 6040<br>A 5494.1               | ---Rear, 546 meters 072°26' from front.  | 51° 30.6' N<br>2° 42.6' W | <b>Q.R.</b>                                       | 49<br>15      | 10           | Red framework tower, orange bands, white round daymark, black stripes; 43. | Visible 066°-078°.   |
| 6044<br>A 5497                 | ---Oil jetty, head.                      | 51° 30.6' N<br>2° 42.9' W | <b>2 F.G.</b> (vert.)                             | 20<br>6       | 2            | Black column; 10.  | 2 meters apart.  |
| <b>--King Road:</b>            |  |                           |   |               |              |  |  |
| 6052<br>A 5500.9               | ---Avonmouth Range, front.               | 51° 30.1' N<br>2° 42.6' W | <b>Iso.R.</b><br>period 2s                        | 20<br>6       | 3            | White mast, orange square daymark; 13.                                     | Visible 010°-160°.   |

| (1)<br>No.                     | (2)<br>Name and Location                    | (3)<br>Position           | (4)<br>Characteristic                           | (5)<br>Height | (6)<br>Range | (7)<br>Structure   | (8)<br>Remarks  |
|--------------------------------|---|---------------------------|---|---------------|--------------|--|---|
| <b>ENGLAND-BRISTOL CHANNEL</b> |   |                           |   |               |              |  |   |
| 6056<br>A 5501                 | ---Rear 142 meters 127°12' from front.      | 51° 30.1' N<br>2° 42.5' W | <b>Iso.R.</b><br>period 2s                      |               | 33<br>10     | 3 White mast, orange square daymark; 26.                 | Visible 048°-138°.  |
|                                | -Nelson Point Channel:                      |                           |   |               |              |  |   |
| 6060<br>A 5504                 | --Monoliths.                                | 51° 30.2' N<br>2° 42.8' W | <b>Fl.R.</b><br>period 5s<br>fl. 1.5s, ec. 3.5s |               | 16<br>5      | 3 White column, white square daymark, black stripes; 13. | Visible 317°-137°.  |
| 6062<br>A 5505                 | -St. George Range, front.                   | 51° 29.8' N<br>2° 42.7' W | <b>Oc.G.</b><br>period 5s<br>lt. 4s, ec. 1s     |               | 23<br>7      | 1 White mast, orange rectangular daymark; 16.            | Visible 158°-305°.  |
| 6062.1<br>A 5505.1             | --Rear, about 40 meters 173°17' from front. | 51° 29.7' N<br>2° 42.7' W | <b>Oc.G.</b><br>period 5s                       |               | 43<br>13     | 1 White mast, orange rectangular daymark; 33.            | Visible 158°-305°.<br>Synchronized with front.                      |
| 6064<br>A 5507                 | -Gloucester Bank, Nelson Point.             | 51° 29.9' N<br>2° 42.5' W | <b>Fl.R.</b><br>period 3s                       |               | 30<br>9      | 3 White mast; 23.  |   |
| 6068<br>A 5508                 | -Broad Pill, N. jetty, head.                | 51° 29.7' N<br>2° 42.0' W | <b>Q.R.</b>                                     |               | 13<br>4      | 1 White framework tower.                                 |   |
| 6072<br>A 5511                 | -Custom House, Somerset Bank.               | 51° 28.9' N<br>2° 40.9' W | <b>Fl.G.</b><br>period 2s<br>fl. 0.2s, ec. 1.8s |               | 16<br>5      | 1 White column; 12.                                      |   |
| 6076<br>A 5512                 | -Adam and Eve, Somerset Bank.               | 51° 28.8' N<br>2° 40.5' W | <b>Q.(3)G.</b><br>period 6s                     |               | 25<br>8      | 1 White column; 12.                                      |   |
| 6080<br>A 5513                 | -Chapel Pill, Somerset Bank.                | 51° 28.9' N<br>2° 40.1' W | <b>Q.(2)G.</b><br>period 4s                     |               | 24<br>7      | 1 White column; 12.                                      |   |
| 6084<br>A 5514                 | -Lower Horseshoe, Gloucester Bank.          | 51° 29.3' N<br>2° 39.9' W | <b>Fl.R.</b><br>period 2s                       |               | 16<br>5      | 1 White column; 12.                                      |   |
| 6088<br>A 5515                 | -Upper Horseshoe, Gloucester Bank.          | 51° 29.3' N<br>2° 39.7' W | <b>Fl.(3)R.</b><br>period 6s                    |               | 16<br>5      | 1 White column; 12.                                      |   |
| 6092<br>A 5516                 | -Fir Tree, Gloucester Bank.                 | 51° 29.2' N<br>2° 39.5' W | <b>Q.(2)R.</b><br>period 4s                     |               | 18<br>5      | 1 White column; 12.                                      |   |
| 6100<br>A 5518                 | -Sea Mills.                                 | 51° 28.8' N<br>2° 39.0' W | <b>Iso.R.</b><br>period 5s                      |               | 23<br>7      | 1 White framework tower; 16.                             | Visible 342°-148°.  |
| 6104<br>A 5520                 | -Miles Dock, Somerset Bank, upper.          | 51° 28.4' N<br>2° 39.0' W | <b>Fl.G.</b><br>period 2s<br>fl. 0.2s, ec. 1.8s |               | 22<br>7      | 1 White column; 12.                                      |   |
| 6108<br>A 5519                 | --Lower.                                    | 51° 28.5' N<br>2° 39.1' W | <b>Q.(3)G.</b><br>period 6s                     |               | 18<br>5      | 1 White column; 12.                                      |   |
| 6112<br>A 5522                 | -Leigh Woods, Somerset Bank, upper.         | 51° 28.2' N<br>2° 38.7' W | <b>Fl.G.</b><br>period 2s<br>fl. 0.2s, ec. 1.8s |               | 18<br>5      | 1 White column; 12.                                      |   |
| 6116<br>A 5521                 | --Lower.                                    | 51° 28.3' N<br>2° 38.9' W | <b>Q.(2)G.</b><br>period 4s                     |               | 18<br>5      | 1 White column; 12.                                      |   |
| 6120<br>A 5523                 | -Black Rock Quarry, Gloucester Bank.        | 51° 28.1' N<br>2° 38.0' W | <b>Fl.R.</b><br>period 2s<br>fl. 0.2s, ec. 1.8s |               | 18<br>5      | 1 White column; 12.                                      |   |
| 6128<br>A 5525                 | -Round Point, Gloucester Bank.              | 51° 27.5' N<br>2° 37.8' W | <b>Q.(2)R.</b><br>period 4s                     |               | 25<br>8      | 1 White column; 12.                                      |   |
| 6132<br>A 5526                 | -Nightingale Valley, Somerset Bank.         | 51° 27.5' N<br>2° 37.9' W | <b>Q.(3)G.</b><br>period 6s                     |               | 18<br>5      | 1 White column; 12.                                      |   |
| 6140<br>A 5486                 | Portishead, pier, head.                     | 51° 29.7' N<br>2° 45.3' W | <b>Iso.G.</b><br>period 2s                      |               | 18<br>5      | 3 White column; 12.                                      |   |
| 6144<br>A 5484                 | -Portishead Point.                          | 51° 29.7' N<br>2° 46.4' W | <b>Q.(3)W.</b><br>period 10s                    |               | 30<br>9      | 16 Black metal framework tower, white concrete base; 30. | Visible 060°-262°.<br><b>Horn:</b> 1 bl. ev. 20s (bl. 2s, si. 18s). |
| 6156<br>A 5480                 | Clevedon pier, head.                        | 51° 26.6' N<br>2° 51.9' W | <b>2 F.G.</b> (vert.)                           |               | 23<br>7      | 3 Post; 3.   | 2 meters apart.   |



| (1)<br>No.                     | (2)<br>Name and Location                        | (3)<br>Position           | (4)<br>Characteristic   | (5)<br>Height | (6)<br>Range            | (7)<br>Structure  | (8)<br>Remarks                           |
|--------------------------------|---|---------------------------|---|---------------|-------------------------|---|--|
| <b>ENGLAND-BRISTOL CHANNEL</b> |   |                           |   |               |                         |   |  |
| <b>WESTON-SUPER-MARE:</b>      |   |                           |   |               |                         |   |  |
| 6164<br>A 5566                 | -Pier, head.                                    | 51° 20.9' N<br>2° 59.2' W | <b>2 F.G.</b> (vert.)   | 19<br>6       |                         | White post; 7.  | 1 meter apart.                           |
| 6168<br>A 5582                 | Hinkley Point.                                  | 51° 12.9' N<br>3° 08.0' W | <b>2 F.G.</b> (vert.)   | 24<br>7       | 3                       | Metal column.   | 2 meters apart.                          |
| <b>RIVER PARRETT:</b>          |   |                           |   |               |                         |   |  |
| 6172<br>A 5570                 | -Burnham.                                       | 51° 14.9' N<br>3° 00.3' W | <b>Fl.W.</b><br>period 7.5s<br>fl. 0.3s, ec. 7.2s   | 23<br>7       | 12                      | White square tower, red stripe,<br>piles; 30.                     | Visible 074°-164°.                       |
|                                | -076°.  |                           | <b>Dir.W.R.G.</b>   | 13<br>4       | W. 12<br>R. 10<br>G. 10 |   | F.G. 071°-075°, F.W.-077°,<br>F.R.-081°. |
| 6176<br>A 5572                 | -Seafront Range, front.                         | 51° 14.4' N<br>3° 00.0' W | <b>F.R.</b>   | 20<br>6       | 3                       | White square, orange stripe, sea<br>wall.                         |  |
| 6180<br>A 5572.1               | --Rear 118° from front.                         | 51° 14.4' N<br>2° 59.9' W | <b>F.R.</b>   | 40<br>12      | 3                       | Church tower.   |  |
| 6188<br>A 5573                 | -Stert Reach.                                   | 51° 11.4' N<br>3° 02.0' W | <b>Fl.W.</b><br>period 3s<br>fl. 0.3s, ec. 2.7s   | 12<br>4       | 7                       | White beacon.   | Visible 187°-217°.                       |
| 6196<br>A 5584                 | Watchet Harbor, W. breakwater.                  | 51° 11.0' N<br>3° 19.7' W | <b>Oc.G.</b><br>period 3s<br>lt. 2.5s, ec. 0.5s   | 31<br>9       | 9                       | Red hexagonal metal tower,<br>green cupola, white lantern;<br>16. |  |
| 6200<br>A 5584.2               | -E. breakwater.                                 | 51° 11.0' N<br>3° 19.7' W | <b>2 F.R.</b> (vert.)   |               | 3                       |   | Traffic signals 40 meters S.             |
| 6204<br>A 5586                 | Minehead, pier, head.                           | 51° 12.8' N<br>3° 28.4' W | <b>Fl.(2)G.</b><br>period 5s  |               | 4                       | Metal post, parapet; 7.   | Visible 127°-262°.                       |
| 6204.5<br>A 5586.4             | -Outfall.                                       | 51° 13.0' N<br>3° 28.3' W | <b>Q.G.</b>   | 20<br>6       | 7                       | STARBOARD (A)<br>G, beacon, topmark.                              |  |
| 6208<br>A 5590                 | <b>Lynmouth Foreland.</b>                       | 51° 14.7' N<br>3° 47.2' W | <b>Fl.(4)W.</b><br>period 15s<br>fl. 0.1s, ec. 2.2s<br>fl. 0.1s, ec. 2.2s<br>fl. 0.1s, ec. 2.2s<br>fl. 0.1s, ec. 8s | 220<br>67     | 18                      | White round tower; 50.  | Visible 083°-275°.<br>Shown 24 hours.    |
| 6212<br>A 5592                 | -River training arm.                            | 51° 13.9' N<br>3° 49.8' W | <b>2 F.R.</b> (vert.)   | 20<br>6       | 5                       | Column.   |  |
| 6216<br>A 5593                 | -Harbor Arm.                                    | 51° 13.9' N<br>3° 49.8' W | <b>2 F.G.</b> (vert.)   | 20<br>6       | 5                       | Column.   |  |
| 6220<br>A 5594                 | Ilfracombe, Lantern Hill, N. side<br>of harbor. | 51° 12.6' N<br>4° 06.8' W | <b>Fl.(2)G.</b><br>period 5s  | 127<br>39     | 6                       | Chapel, white lantern; 36.  |  |
| 6224<br>A 5596                 | -Inner pier, head.                              | 51° 12.6' N<br>4° 06.7' W | <b>2 F.G.</b> (vert.)   | 20<br>6       | 1                       | Post; 8.  |  |
| 6228<br>A 5600                 | <b>Bull Point.</b>                              | 51° 11.9' N<br>4° 12.1' W | <b>Fl.(3)W.</b><br>period 10s<br>fl. 0.2s, ec. 1.6s<br>fl. 0.2s, ec. 1.6s<br>fl. 0.2s, ec. 6.2s                     | 177<br>54     | 20                      | White round tower; 35.  | Visible 056°-260°.                       |
|                                |   |                           | <b>F.R.</b>   | 157<br>48     | 12                      |   | Visible 058°-096°.                       |
| <b>BIDEFORD:</b>               |   |                           |   |               |                         |   |  |
| 6232<br>A 5610                 | <b>-Instow Landing</b> Range, front.            | 51° 03.6' N<br>4° 10.7' W | <b>Oc.W.</b><br>period 6s<br>lt. 5s, ec. 1s   | 71<br>22      | 15                      | White framework tower, white<br>rectangular daymark; 59.          | Visible 103°30'-132°.<br>Shown 24 hours. |

| (1)<br>No.                     | (2)<br>Name and Location            | (3)<br>Position           | (4)<br>Characteristic                             | (5)<br>Height | (6)<br>Range | (7)<br>Structure                           | (8)<br>Remarks   |
|--------------------------------|-------------------------------------|---------------------------|---|---------------|--------------|--|--|
| <b>ENGLAND-BRISTOL CHANNEL</b> |                                     |                           |   |               |              |  |  |
| 6236<br>A 5610.1               | --Rear, 427 meters 118° from front. | 51° 03.5' N<br>4° 10.3' W | <b>Oc.W.</b><br>period 10s<br>lt. 7.5s, ec. 2.5s  | 126<br>38     | 15           | White tower; 30.                           | Visible 103°-132°30'.<br>Shown 24 hours.                                       |
| 6240<br>A 5612                 | Crow Point, Taw River.              | 51° 04.0' N<br>4° 11.4' W | <b>Fl.W.R.</b><br>period 2.5s<br>fl. 0.5s, ec. 2s | 27<br>8       | W. 6<br>R. 5 | White framework tower; 22.                 | R. 225°-232°, W.-237°, R.-358°, W.-015°, R.-045°.                              |
| 6242<br>A 5615                 | Clovelly Harbor, pier, head.        | 50° 59.9' N<br>4° 23.8' W | <b>Fl.G.</b><br>period 5s                         | 16<br>5       | 5            | Green metal structure.                     | Visible to seaward.  |
| 6244<br>A 5616                 | <b>Lundy Island.</b>                | 51° 12.1' N<br>4° 40.6' W | <b>Fl.W.</b><br>period 15s<br>fl. 0.1s, ec. 14.9s | 157<br>48     | 17           | White round tower; 56.                     | Visible 009°-285°.   |
| 6248<br>A 5618                 | -SE. point.                         | 51° 09.7' N<br>4° 39.4' W | <b>Fl.W.</b><br>period 5s<br>fl. 0.1s, ec. 4.9s   | 175<br>53     | 15           | White round tower; 52.                     | Visible 170°-073°.   |
| 6252<br>A 5621                 | Hartland Point.                     | 51° 01.3' N<br>4° 31.5' W | <b>Q.(6)W.</b><br>period 15s                      | 98<br>30      | 8            | Metal post adjacent to old lighthouse; 3.  |  |
| <b>ENGLAND-WEST COAST</b>      |                                     |                           |   |               |              |  |  |
| PADSTOW:                       |                                     |                           |   |               |              |  |  |
| 6256<br>A 5630                 | -Stepper Point.                     | 50° 34.1' N<br>4° 56.7' W | <b>L.Fl.W.</b><br>period 10s<br>fl. 2s, ec. 8s    | 41<br>12      | 4            | Metal column; 7.                           |  |
| 6260<br>A 5634                 | -N. quay, head.                     | 50° 32.5' N<br>4° 56.1' W | <b>2 F.G.</b> (vert.)                             | 21<br>6       | 2            | Metal column; 20.                          | FW. shown from each inner quay.  |
| 6264<br>A 5636                 | -S. quay, head.                     | 50° 32.4' N<br>4° 56.1' W | <b>2 F.R.</b> (vert.)                             | 24<br>7       | 2            | Metal column; 20.                          |  |
| 6268<br>A 5631                 | -St. Saviours Point.                | 50° 32.7' N<br>4° 56.0' W | <b>L.Fl.G.</b><br>period 10s                      | 3<br>1        |              | Green triangular daymark point up.         |  |
| 6272<br>A 5638                 | <b>Trevoze Head.</b>                | 50° 32.9' N<br>5° 02.2' W | <b>Fl.W.</b><br>period 7.5s<br>fl. 0.1s, ec. 7.4s | 204<br>62     | 21           | White round tower, dwellings; 89.          | R. light on radio mast 180 meters ESE.   |
| NEWQUAY:                       |                                     |                           |   |               |              |  |  |
| 6276<br>A 5642                 | -N. pier, head.                     | 50° 25.0' N<br>5° 05.1' W | <b>2 F.G.</b> (vert.)                             | 16<br>5       | 2            | Bracket on wall.                           |  |
| 6280<br>A 5644                 | -S. pier, head.                     | 50° 25.5' N<br>5° 05.1' W | <b>2 F.R.</b> (vert.)                             | 14<br>4       | 2            | Round stone tower; 7.                      |  |
| 6284<br>A 5655                 | Godrevy Island.                     | 50° 14.5' N<br>5° 24.0' W | <b>Fl.W.R.</b><br>period 10s<br>fl. 1s, ec. 9s    | 92<br>28      | 8            | Metal post adjacent to Old Lighthouse.     | W. 022°-101°, R.-145°, W.-272°. 4 F.R. (vert.) shown on TV tower 6.5 miles SE. |
| HAYLE:                         |                                     |                           |   |               |              |  |  |
| 6292<br>A 5658.1               | -Old rear.                          | 50° 11.4' N<br>5° 26.1' W | <b>F.W.</b>                                       | 76<br>23      | 4            | Pile structure, red and white lantern; 16. |  |
| 6294<br>A 5658.5               | -Perch.                             | 50° 11.7' N<br>5° 26.1' W | <b>Oc.G.</b><br>period 4s<br>lt. 3s, ec. 1s       |               |              | Wooden pole.                               |  |
| 6296<br>A 5665                 | St. Ives, inner pier, head.         | 50° 12.8' N<br>5° 28.5' W | <b>2 F.G.</b> (vert.)                             | 27<br>8       | 5            | White round metal tower; 33.               |  |
| 6300<br>A 5666                 | -W. pier, head.                     | 50° 12.8' N<br>5° 28.7' W | <b>2 F.R.</b> (vert.)                             | 18<br>5       | 3            | Gray column; 16.                           |  |

| (1)<br>No.                | (2)<br>Name and Location | (3)<br>Position           | (4)<br>Characteristic   | (5)<br>Height    | (6)<br>Range | (7)<br>Structure                  | (8)<br>Remarks     |
|---------------------------|--------------------------|---------------------------|---|------------------|--------------|-----------------------------------|--------------------|
| <b>ENGLAND-WEST COAST</b> |                          |                           |   |                  |              |                                   |                    |
| 6304<br><i>A 5670</i>     | <b>Pendeen.</b>          | 50° 09.9' N<br>5° 40.3' W | <b>Fl.(4)W.</b><br>period 15s<br>fl. 0.1s, ec. 2.3s<br>fl. 0.1s, ec. 2.3s<br>fl. 0.1s, ec. 2.3s<br>fl. 0.1s, ec. 7.7s | 195<br><b>59</b> | <b>16</b>    | White round tower, dwellings; 56. | Visible 042°-240°. |

# Section 6

## Ireland and Northern Ireland

| (1)<br>No.                                | (2)<br>Name and Location                  | (3)<br>Position           | (4)<br>Characteristic   | (5)<br>Height | (6)<br>Range         | (7)<br>Structure  | (8)<br>Remarks   |
|---|---|---------------------------|---|---------------|----------------------|---|--|
| <b>IRELAND-SOUTH COAST</b>                |   |                           |   |               |                      |   |  |
| 6308<br>A 5702                            | <b>Fastnet Rock.</b>                      | 51° 23.3' N<br>9° 36.2' W | <b>Fl.W.</b><br>period 5s<br>fl. 0.1s, ec. 4.9s   | 160<br>49     | 27                   | Gray granite tower; 177.                                | <b>AIS</b> (MMSI No 992501123).<br><b>Fog detector light:</b> V.Q.W.   |
|   | RACON                                     |                           | <b>G(— — •)</b>   |               | 18                   |   | (3 & 10cm).  |
| 6312<br>A 5703                            | Cooper Point, Long Island, E. end.        | 51° 30.3' N<br>9° 32.1' W | <b>Q.(3)W.</b><br>period 10s  | 52<br>16      | 8                    | White round tower.                                      |  |
| 6316<br>A 5704                            | Schull Harbor Range, front.               | 51° 31.6' N<br>9° 32.5' W | <b>Oc.W.</b><br>period 5s<br>lt. 4s, ec. 1s   | 16<br>5       | 11                   | White metal mast, orange triangular daymark point up.   |  |
| 6320<br>A 5704.1                          | -Rear, 91 meters 346° from front.         | 51° 31.7' N<br>9° 32.4' W | <b>Oc.W.</b><br>period 5s<br>lt. 4s, ec. 1s   | 26<br>8       | 11                   | White metal mast, orange triangular daymark point down. |  |
| 6324<br>A 5705                            | Baltimore, Barrack Point.                 | 51° 28.3' N<br>9° 23.7' W | <b>Fl.(2)W.R.</b><br>period 6s<br>fl. 0.3s, ec. 1.4s<br>fl. 0.3s, ec. 4s  | 130<br>40     | W. 6<br>R. 3         | White tower; 26.  | R. 168°-294°, W.-038°.   |
| 6328<br>A 5707                            | Castle Haven, on Reen Point.              | 51° 31.0' N<br>9° 10.5' W | <b>Fl.W.R.G.</b><br>period 10s<br>fl. 0.5s, ec. 9.5s  | 31<br>9       | W. 5<br>R. 3<br>G. 3 | White tower; 13.  | G. 253°-338°, W.-001°, R.-151°.  |
| 6332<br>A 5708                            | <b>Galley Head.</b>                       | 51° 31.8' N<br>8° 57.2' W | <b>Fl.(5)W.</b><br>period 20s<br>fl. 0.1s, ec. 2.4s<br>fl. 0.1s, ec. 2.4s<br>fl. 0.1s, ec. 2.4s<br>fl. 0.1s, ec. 2.4s<br>fl. 0.1s, ec. 9.9s | 174<br>53     | 23                   | White tower; 69.  | Visible 256°-065°.   |
| 6336<br>A 5709                            | Courtmacsherry Harbor, Land Point.        | 51° 38.2' N<br>8° 41.0' W | <b>Fl.(2)W.R.</b><br>period 5s  | 49<br>15      | 6                    | White metal column; 10.                                 | W. 315°-332°, R.-315°.   |
| 6340<br>A 5710                            | <b>Old Head of Kinsale.</b>               | 51° 36.3' N<br>8° 32.0' W | <b>Fl.(2)W.</b><br>period 10s<br>fl. 0.1s, ec. 1.6s<br>fl. 0.1s, ec. 8.2s   | 236<br>72     | 20                   | Black tower, two white bands; 98.                       | <b>AIS</b> (MMSI No 992501107).  |
| 6344<br>A 5712                            | Kinsale, Charles Fort, E. side of harbor. | 51° 41.8' N<br>8° 30.0' W | <b>Fl.W.R.G.</b><br>period 5s<br>fl. 1s, ec. 4s   | 60<br>18      | W. 9<br>R. 6<br>G. 7 | Fort, lantern.  | G. 348°-358°, W.-004°, R.-168°. Shown 24 hours.  |
| <b>CORK HARBOR AND COBH (QUEENSTOWN):</b> |   |                           |   |               |                      |   |  |
| 6356<br>A 5718                            | <b>-Roche's Point.</b>                    | 51° 47.6' N<br>8° 15.3' W | <b>Fl.W.R.</b><br>period 3s   | 98<br>30      | W. 20<br>R. 16       | White tower; 49.  | R. 266°-292°, W.-016°, R.-033°, W. (unintensified) 033°-159°, R.-206°. <b>AIS</b> (MMSI No 992501099).         |
| 6360<br>A 5722                            | -White Bay Range, front.                  | 51° 48.5' N<br>8° 15.2' W | <b>Oc.R.</b><br>period 5s<br>lt. 4.5s, ec. 0.5s   | 35<br>11      | 5                    | White hut; 6.   |  |
| 6364<br>A 5722.1                          | --Rear, 113 meters 034°35' from front.    | 51° 48.6' N<br>8° 15.2' W | <b>Oc.R.</b><br>period 5s   | 70<br>21      | 5                    | White hut; 8.   | Synchronized with front.   |
| 6368<br>A 5728                            | <b>-Fort Davis</b> Range, front.          | 51° 48.8' N<br>8° 15.8' W | <b>Dir.W.R.G.</b>   | 95<br>29      | 17 39.               |   | F.G. 352°-352°45', Al.W.G.-353°30', F.W.-355°30', Al.W.R.-356°15', F.R.-357°. Shown 24 hours. Range 3M by day. |

| (1)<br>No.                 | (2)<br>Name and Location                                     | (3)<br>Position           | (4)<br>Characteristic  | (5)<br>Height | (6)<br>Range          | (7)<br>Structure                                   | (8)<br>Remarks                                    |
|----------------------------|--|---------------------------|--|---------------|-----------------------|--|---|
| <b>IRELAND-SOUTH COAST</b> |  |                           |  |               |                       |  |   |
| 6372<br>A 5728.1           | --Rear, Dognose landing quay, 203 meters 354°30' from front. | 51° 48.9' N<br>8° 15.8' W | <b>Oc.W.</b><br>period 5s  | 112<br>34     | 10                    | Metal framework tower, orange square daymark; 39.  |   |
| 6376<br>A 5732             | -Corkbeg, Whitegate, oil pier, T head.                       | 51° 49.9' N<br>8° 15.7' W | <b>2 F.G.</b> (vert.)  |               |                       | Dolphin; 10.                                       |   |
| 6380<br>A 5736             | -Spit Bank, E. elbow, off Cobh (Queenstown).                 | 51° 50.7' N<br>8° 16.5' W | <b>Iso.W.R.</b><br>period 4s   | 33<br>10      | W. 10<br>R. 7         | White house, red piles; 33.                        | R. 087°-196°, W.-221°, R.-358°.                   |
| 6392<br>A 5748             | -Haulbowline Basin, E. side of entrance.                     | 51° 50.6' N<br>8° 18.0' W | <b>2 F.R.</b> (vert.)  | 26<br>8       |                       | Dolphin.   |   |
| 6396<br>A 5749             | --W. side.   | 51° 50.6' N<br>8° 18.1' W | <b>2 F.R.</b> (vert.)  | 26<br>8       |                       | Dolphin.   |   |
| 6404<br>A 5758             | -Monkstown, SE. corner of pier.                              | 51° 51.0' N<br>8° 19.9' W | <b>Fl.R.</b><br>period 2.5s<br>fl. 0.2s, ec. 2.3s  | 12<br>4       | 4                     | Red tower.   | Visible 209°-356°.                                |
| 6406<br>A 5757             | -Verolme Cork Dockyard pier, NW. corner.                     | 51° 50.9' N<br>8° 19.7' W | <b>2 F.G.</b> (vert.)  |               |                       | Dolphin.   |   |
| 6417<br>A 5763             | -Cattle berth, jetty, head.                                  | 51° 54.0' N<br>8° 24.6' W | <b>2 F.G.</b> (vert.)  |               |                       | Mooring dolphin.                                   |   |
| 6420<br>A 5764             | -Tivoli, N. side of river.                                   | 51° 54.1' N<br>8° 26.1' W | <b>Fl.G.</b><br>period 3s<br>fl. 0.5s, ec. 2.5s  | 10<br>3       | 10                    | Wall, lantern; 3.                                  | Visible 275°-095°.                                |
| 6428<br>A 5774             | <b>Ballycotton Island.</b>                                   | 51° 49.5' N<br>7° 59.1' W | <b>Fl.W.R.</b><br>period 10s<br>fl. 0.3s, ec. 9.7s   | 195<br>59     | W. 18<br>R. 14        | Black tower within white walls, black lantern; 49. | W. 238°-048°, R.-238°. AIS (MMSI No 992501093).   |
| 6432<br>A 5776             | <b>Youghal.</b>  | 51° 56.6' N<br>7° 50.5' W | <b>Fl.W.R.</b><br>period 2.5s<br>fl. 0.5s, ec. 2s  | 79<br>24      | W. 17<br>R. 13        | White tower; 49.                                   | W. 183°-273°, R.-295°, W.-307°, R.-351°, W.-003°. |
| 6436<br>A 5778             | Mine Head.   | 51° 59.5' N<br>7° 35.2' W | <b>Fl.(4)W.</b><br>period 30s<br>fl. 0.3s, ec. 3.7s<br>fl. 0.3s, ec. 3.7s<br>fl. 0.3s, ec. 3.7s<br>fl. 0.3s, ec. 17.7s | 285<br>87     | 12                    | White tower, black band; 69.                       | Visible 228°-052°. AIS (MMSI No 992501085).       |
| <b>DUNGARVAN BAY:</b>      |  |                           |  |               |                       |  |   |
| 6440<br>A 5782             | -Ballinacourty Point.  | 52° 04.7' N<br>7° 33.2' W | <b>Fl.(2)W.R.G.</b><br>period 10s<br>fl. 0.5s, ec. 1s<br>fl. 0.5s, ec. 8s  | 52<br>16      | W. 10<br>R. 8<br>G. 8 | White tower; 43.                                   | G. 245°-274°, W.-302°, R.-325°, W.-117°.          |
| <b>WATERFORD:</b>          |  |                           |  |               |                       |  |   |
| 6460<br>A 5798             | <b>-Hook Head.</b>   | 52° 07.3' N<br>6° 55.8' W | <b>Fl.W.</b><br>period 3s<br>fl. 0.1s, ec. 2.9s  | 152<br>46     | 18                    | White tower, two black bands; 115.                 | AIS (MMSI No 992501079).                          |
|                            | -RACON   |                           | <b>K(- • -)</b>  |               | 10                    |  | Azimuth coverage 237°-177°. (3 & 10cm).           |
| 6464<br>A 5800             | <b>-Dunmore East.</b>  | 52° 08.9' N<br>6° 59.3' W | <b>Fl.W.R.</b><br>period 8s<br>fl. 1.8s, ec. 6.2s  | 44<br>13      | W. 16<br>R. 13        | Gray granite tower, white lantern; 52.             | W. 225°-310°, R.-004°.                            |
| 6468<br>A 5801             | --E. breakwater extension.                                   | 52° 08.9' N<br>6° 59.3' W | <b>Fl.R.</b><br>period 2s  | 20<br>6       | 4                     |  | Visible 000°-310°.                                |
| 6472<br>A 5802             | --West wharf.  | 52° 08.9' N<br>6° 59.4' W | <b>Fl.G.</b><br>period 2s  | 20<br>6       | 4                     |  | Visible 165°-246°.                                |

| (1)<br>No.                 | (2)<br>Name and Location                                  | (3)<br>Position           | (4)<br>Characteristic                               | (5)<br>Height | (6)<br>Range            | (7)<br>Structure                              | (8)<br>Remarks   |
|----------------------------|---|---------------------------|---|---------------|-------------------------|---|--|
| <b>IRELAND-SOUTH COAST</b> |   |                           |   |               |                         |   |  |
| 6476<br>A 5806             | --Duncannon, 002°.  | 52° 13.1' N<br>6° 56.3' W | <b>Dir.W.R.G.</b>                                   | 43<br>13      | 10                      | White tower, fort; 26.                        | F.G. 359°-30°-001°09',<br>Al.W.G.-001°39', F.W.-<br>002°21', Al.W.R.-002°51',<br>F.R.-004°30'. |
|                            |   |                           | <b>Oc.W.R.</b><br>period 4s<br>lt. 3s, ec. 1s       | 43<br>13      | W. 9<br>R. 7            |   | R. 119°-149°, W.-172°.   |
| 6484<br>A 5808             | -Passage Point, on spit.                                  | 52° 14.2' N<br>6° 57.7' W | <b>Fl.W.R.</b><br>period 5s<br>fl. 0.5s, ec. 4.5s   | 23<br>7       | W. 6<br>R. 5            | Red pile structure with white<br>lantern; 43. | W. 101°-127°, R.-180°, W.-<br>302°, R.-021°.   |
| 6488<br>A 5810             | -Cheek Point.   | 52° 16.1' N<br>6° 59.3' W | <b>Q.W.R.</b>                                       | 20<br>6       | 5                       | White mast; 16.                               | R. 289°-007°, W.-007°.   |
| 6492<br>A 5812             | -Kilmokea.  | 52° 16.4' N<br>6° 58.9' W | <b>Fl.W.</b><br>period 5s<br>fl. 0.5s, ec. 4.5s     |               |                         |   |  |
| 6496<br>A 5814             | -Snowhill Range front.                                    | 52° 16.4' N<br>7° 00.9' W | <b>Fl.W.R.</b><br>period 2.5s<br>fl. 0.3s, ec. 2.2s | 18<br>5       | 3                       | White mast; 19.                               | W.-222°-020°, R.-057°,<br>W.-107°  |
| 6500<br>A 5814.1           | --Rear, Glass House, mill, 750<br>meters 255° from front. | 52° 16.3' N<br>7° 01.5' W | <b>Q.W.</b>   | 39<br>12      | 5                       | White framework tower; 36.                    |  |
|                            | -Queens Channel:  |                           |   |               |                         |   |  |
| 6504<br>A 5818             | --S. side of E. entrance Range,<br>front.                 | 52° 15.3' N<br>7° 02.2' W | <b>Oc.R.</b><br>period 6s                           | 26<br>8       | 5                       | Black tower, white band; 23.                  |  |
| 6508<br>A 5820             | --Rear, Faithleg Demesne,<br>550 meters 098° from front.  | 52° 15.3' N<br>7° 01.8' W | <b>Q.W.</b>   | 50<br>15      | 5                       | White mast; 20.                               |  |
| 6512<br>A 5822             | --Giles Quay.   | 52° 15.4' N<br>7° 04.2' W | <b>Fl.W.</b><br>period 3s<br>fl. 0.3s, ec. 2.7s     | 29<br>9       |                         |   | Visible 255°-086°.   |
| 6516<br>A 5826             | -Cove, S. side of river.                                  | 52° 15.0' N<br>7° 05.1' W | <b>Fl.W.R.</b><br>period 5s                         | 20<br>6       | W. 6<br>R. 4            | White tower; 23.                              | R. 111°-161°, W.-234°, R.-<br>087°, W.-111°.   |
| 6520<br>A 5828             | -Smelting House Point.                                    | 52° 15.1' N<br>7° 05.2' W | <b>Q.W.</b>   | 25<br>8       | 3                       | White mast; 31.                               | Traffic signal lights are shown<br>on both sides of Redmond<br>Bridge.                         |
| 6524<br>A 5830             | -Ballycar, S. side of river.                              | 52° 15.0' N<br>7° 05.4' W | <b>Fl.W.</b><br>period 3s<br>fl. 0.3s, ec. 2.7s     | 17<br>5       | 3                       | Red and white beacon.                         |  |
| 6532<br>A 5836             | Kilmore, breakwater, head.                                | 52° 10.2' N<br>6° 35.1' W | <b>Q.R.G.</b>                                       | 23<br>7       | 5                       | Metal column; 10.                             | R. 269°-354°, G.-003°, R.-<br>077°.  |
| 6536<br>A 5837             | -Carne, pier, head.                                       | 52° 11.9' N<br>6° 20.8' W | <b>Fl.R.</b><br>period 3s                           | 20<br>6       | 4                       | Metal column; 10.                             |  |
| <b>IRELAND-EAST COAST</b>  |   |                           |   |               |                         |   |  |
| 6540<br>A 5838             | <b>Tuskar Rock.</b>                                       | 52° 12.1' N<br>6° 12.4' W | <b>Q.(2)W.</b><br>period 7.5s                       | 108<br>33     | 24                      | White tower; 112.                             | <b>AIS</b> (MMSI No 992501065).  |
|                            | RACON   |                           | <b>T(-)</b>   |               | 18                      |   | (3 & 10cm).  |
|                            | ROSSLARE:   |                           |   |               |                         |   |  |
| 6544<br>A 5842             | -Pier, head.  | 52° 15.4' N<br>6° 20.3' W | <b>Oc.W.R.G.</b><br>period 5s<br>lt. 4s, ec. 1s     | 50<br>15      | W. 13<br>R. 10<br>G. 10 | Red metal tower; 15.                          | G. 098°-188°, W.-208°, R.-<br>246°, G.-284°, W.-286°,<br>R.-320°, W.-098°.                     |
| 6556                       | <i>South Arklow Buoy.</i>                                 | 52° 40.2' N<br>5° 58.9' W | <b>Q.(6)W.+L.Fl.</b><br>period 15s                  |               |                         | S. CARDINAL<br>YB, pillar, topmark.           | <b>AIS</b> (MMSI No 992501040).  |
|                            | RACON   |                           | <b>O(- - -)</b>                                     |               | 10                      |   | (3 & 10cm).  |

| (1)<br>No.                  | (2)<br>Name and Location       | (3)<br>Position           | (4)<br>Characteristic   | (5)<br>Height | (6)<br>Range | (7)<br>Structure   | (8)<br>Remarks   |
|-----------------------------|--------------------------------|---------------------------|---|---------------|--------------|--|--|
| <b>IRELAND-EAST COAST</b>   |                                |                           |   |               |              |  |  |
| 6560<br><i>A 5847</i>       | Arklow Head, Roadstone jetty.  | 52° 46.7' N<br>6° 08.4' W | <b>Fl.R.</b><br>period 3s   | 30<br>9       | 4            | Hut.   |  |
| 6564<br><i>A 5848</i>       | Arklow Harbor, S. pier, head.  | 52° 47.6' N<br>6° 08.2' W | <b>Fl.W.R.</b><br>period 6s<br>fl. 1s, ec. 5s   | 36<br>11      | 13           | White column; 20.  | R. 160°-223°, W.-350°, R.-033°.  |
| 6568<br><i>A 5849</i>       | -N. pier, head.                | 52° 47.6' N<br>6° 08.3' W | <b>L.Fl.G.</b><br>period 7s<br>fl. 2s, ec. 5s   | 23<br>7       | 10           | White column.  | Visible 170°-287°.   |
| 6572<br><i>A 5850</i>       | <b>Wicklow Head.</b>           | 52° 58.0' N<br>6° 00.0' W | <b>Fl.(3)W.</b><br>period 15s<br>fl. 0.1s, ec. 2.4s<br>fl. 0.1s, ec. 2.4s<br>fl. 0.1s, ec. 9.9s | 121<br>37     | 23           | White tower; 46.   | <b>AIS</b> (MMSI No 992501031).  |
| WICKLOW HARBOR:             |                                |                           |   |               |              |  |  |
| 6576<br><i>A 5854</i>       | -E. pier, head.                | 52° 59.0' N<br>6° 02.1' W | <b>Fl.W.R.</b><br>period 5s   | 35<br>11      | 6            | White tower, red base, gallery, cupola; 23.                  | R. 136°-293°, W.-136°.   |
| 6580<br><i>A 5856</i>       | -W. pier, head.                | 52° 59.0' N<br>6° 02.2' W | <b>Iso.G.</b><br>period 4s  | 15<br>5       | 6            | Metal column.  |  |
| 6584<br><i>A 5858</i>       | -W. Packet quay, head.         | 52° 58.9' N<br>6° 02.1' W | <b>Fl.W.G.</b><br>period 10s  | 15<br>5       | 6            | Metal column.  | W. 256°-076°, G.-256°.   |
| 6588                        | <i>Codling Buoy.</i>           | 53° 03.0' N<br>5° 40.8' W | <b>Q.(3)W.</b><br>period 10s  | 24<br>7       | 9            | E. CARDINAL<br>BYB, pillar, topmark.                         | <b>AIS</b> (MMSI No 992501028).  |
|                             | RACON                          |                           | <b>G(— •)</b>   |               | 10           |  | (3 & 10cm).  |
| DUBLIN BAY:                 |                                |                           |   |               |              |  |  |
| 6592<br><i>A 5865</i>       | <b>-Kish Bank.</b>             | 53° 18.6' N<br>5° 55.5' W | <b>Fl.(2)W.</b><br>period 20s<br>fl. 0.2s, ec. 1.9s<br>fl. 0.2s, ec. 17.7s                      | 94<br>29      | 21           | White concrete tower, red band; 102.<br>Helicopter platform. | <b>AIS</b> (MMSI No 992501017).  |
|                             | -RACON                         |                           | <b>T(—)</b>   |               | 15           |  | (3 & 10cm).  |
| 6594                        | <i>-Dublin Bay Buoy.</i>       | 53° 19.9' N<br>6° 04.6' W | <b>Mo.(A)W.</b><br>period 10s   |               |              | SAFE WATER<br>RW, spherical, topmark.                        |  |
|                             | -RACON                         |                           | <b>M(— —)</b>   |               | 5            |  | (3 & 10cm).  |
| 6596<br><i>A 5868</i>       | -Muglins.                      | 53° 16.5' N<br>6° 04.6' W | <b>Fl.R.</b><br>period 5s<br>fl. 0.7s, ec. 4.3s   | 46<br>14      | 11           | White conical tower, red band; 30.                           |  |
| -Dun Laoghaire (Kingstown): |                                |                           |   |               |              |  |  |
| 6600<br><i>A 5872</i>       | --E. pier, head.               | 53° 18.1' N<br>6° 07.6' W | <b>Fl.(2)R.</b><br>period 8s<br>fl. 1s, ec. 1s<br>fl. 1s, ec. 5s                                | 53<br>16      | 17           | Granite tower, red lantern; 39.                              | Synchronized with W. pier, head.<br>Shown in reduced visibility.<br><b>Fog detector light:</b> V.Q.W.<br>7M. |
| 6604<br><i>A 5874</i>       | --W. pier, head.               | 53° 18.2' N<br>6° 07.9' W | <b>Fl.(2)G.</b><br>period 8s<br>fl. 1s, ec. 1s<br>fl. 1s, ec. 5s                                | 36<br>11      | 7            | Granite tower, green lantern; 29.                            | Synchronized with E. pier, head.   |
| 6608<br><i>A 5876</i>       | --Carlisle pier, head.         | 53° 17.7' N<br>6° 07.8' W | <b>Fl.R.</b><br>period 3s<br>fl. 0.3s, ec. 2.7s   | 10<br>3       | 2            | Gray pole.   |  |
| 6612<br><i>A 5877</i>       | -St. Michael's Pier, NE. pile. | 53° 17.9' N<br>6° 07.8' W | <b>2 F.G.</b> (vert.)   | 49<br>15      | 2            | Metal pole, black metal pile.                                | 1 meter apart.<br>Fl.W. traffic signals 170<br>meters SW. and 160<br>meters SSW.                             |
| 6616<br><i>A 5878</i>       | --Traders wharf, head.         | 53° 17.9' N<br>6° 08.5' W | <b>2 F.R.</b> (vert.)   | 36<br>11      | 2            | Metal pole; 30.  | 2 meters apart.  |

| (1)<br>No.                       | (2)<br>Name and Location     | (3)<br>Position           | (4)<br>Characteristic   | (5)<br>Height | (6)<br>Range            | (7)<br>Structure                           | (8)<br>Remarks  |
|----------------------------------|------------------------------|---------------------------|---|---------------|-------------------------|--|---|
| <b>IRELAND-EAST COAST</b>        |                              |                           |   |               |                         |  |   |
| 6620<br>A 5882                   | --Poolbeg.                   | 53° 20.5' N<br>6° 09.1' W | <b>Fl.R.</b><br>period 4s<br>fl. 1s, ec. 3s   | 66<br>20      | 10                      | Red round tower; 66.                       |   |
| 6622<br>A 5889                   | -Coal Quay, E. head.         | 53° 20.5' N<br>6° 11.8' W | <b>2 F.R.</b> (vert.)   | 16<br>5       | 2                       | Dolphin.                                   |   |
| 6625<br>A 5887.9                 | Cape Ferry Quay, SE. corner. | 53° 20.7' N<br>6° 11.6' W | <b>2 F.G.</b> (vert.)   | 23<br>7       | 2                       | Column.                                    |   |
| 6626<br>A 5886.4                 | -AVIATION LIGHT.             | 53° 20.4' N<br>6° 11.4' W | <b>2 Fl.W.</b> (vert.)  | 659<br>201    | 11                      | Chimney; 689.                              | Marked by additional lights.<br>F.R. marks chimney 80 meters<br>E.  |
|                                  |                              |                           | <b>F.W.</b> (neon)  | 538<br>164    |                         |  |   |
| 6628<br>A 5884                   | --Bull.                      | 53° 20.7' N<br>6° 09.0' W | <b>Fl.G.</b><br>period 4s<br>fl. 1s, ec. 3s   | 50<br>15      | 10                      | Green round tower; 49.                     |   |
| 6632<br>A 5886                   | --North Bank.                | 53° 20.7' N<br>6° 10.6' W | <b>Oc.G.</b><br>period 8s<br>lt. 7s, ec. 1s   | 32<br>10      | 16                      | Green square tower, concrete<br>piles; 36. |   |
| 6648<br>A 5894                   | --N. wall quay, head.        | 53° 20.7' N<br>6° 13.0' W | <b>Fl.W.</b><br>period 2s<br>fl. 0.2s, ec. 1.8s   | 39<br>12      | 10                      | Black round tower, white bands;<br>39.     | Traffic signals 750 meters W.   |
| 6652<br>A 5898                   | -Baily.                      | 53° 21.7' N<br>6° 03.2' W | <b>Fl.W.</b><br>period 15s<br>fl. 0.7s, ec. 14.3s                                       | 134<br>41     | 18                      | Granite tower; 43.                         | <b>AIS</b> (MMSI No 992501010).<br><b>Fog detector light:</b> V.Q.W.  |
| 6656<br>A 5900                   | -Howth.                      | 53° 23.6' N<br>6° 04.0' W | <b>Fl.(2)W.R.</b><br>period 7.5s<br>fl. 0.7s, ec. 1.3s<br>fl. 0.7s, ec. 4.8s            | 43<br>13      | W. 12<br>R. 9           | White concrete structure; 33.<br>Floodlit. | W. 256°-295°, R.-256°.  |
| 6657<br>A 5900.3                 | --W. pier, head.             | 53° 23.5' N<br>6° 04.1' W | <b>Fl.G.</b><br>period 3s   | 23<br>7       | 6                       | Green mast, square concrete<br>base; 16.   |   |
| 6658<br>A 5900.5                 | --Trawler pier, head.        | 53° 23.5' N<br>6° 04.0' W | <b>Q.R.</b>   | 23<br>7       | 6                       | Red mast, square concrete<br>base; 16.     |   |
| 6662<br>A 5903.6                 | Burren Rocks.                | 53° 29.4' N<br>6° 02.5' W | <b>Fl.G.</b><br>period 5s<br>fl. 0.3s, ec. 4.7s   | 25<br>8       | 5                       | STARBOARD (A)<br>G, beacon, topmark.       |   |
| 6664<br>A 5904                   | <b>Rockabill.</b>            | 53° 35.8' N<br>6° 00.0' W | <b>Fl.W.R.</b><br>period 12s<br>fl. 0.2s, ec. 11.8s                                     | 148<br>45     | W. 17<br>R. 13          | White tower, black band; 105.              | W. 178°-329°, R.-178°.<br><b>AIS</b> (MMSI No 992501246).   |
| 6668<br>A 5906                   | Skerries Bay, pier, head.    | 53° 35.1' N<br>6° 06.5' W | <b>Oc.R.</b><br>period 6s   | 23<br>7       | 7                       | White column; 25.                          | Visible 103°-154°.  |
| 6672<br>A 5908                   | Balbriggan Island.           | 53° 36.8' N<br>6° 10.9' W | <b>Fl.(3)W.R.G.</b><br>period 10s<br>fl. 1s, ec. 1s<br>fl. 1s, ec. 1s<br>fl. 1s, ec. 5s | 39<br>12      | W. 13<br>R. 10<br>G. 10 | White tower; 52.                           | G. 159°-193°, W.-288°, R.-<br>305°.   |
| 6673<br>A 5909                   | Platin AVIATION LIGHT.       | 53° 41.0' N<br>6° 23.4' W | <b>Aero.Q.R.</b>  | 489<br>149    | 11                      | Chimney; 351.                              |   |
|                                  |                              |                           | <b>Aero.F.R.</b>  | 381<br>116    |                         |  |   |
|                                  |                              |                           | <b>Aero.F.R.</b>  | 266<br>81     |                         |  |   |
| <b>DROGHEDA HARBOR ENTRANCE:</b> |                              |                           |   |               |                         |  |   |
| 6682<br>A 5910.5                 | -Port approach.              | 53° 43.3' N<br>6° 14.7' W | <b>Dir.W.R.G.</b>   | 33<br>10      | W. 19<br>R. 15<br>G. 15 | Metal beacon.                              | F.G. 268°-269°, Al.W.G.-<br>269°30', F.W.-270°30',<br>Al.W.R.-271°, F.R.-272°.<br>Shown 24 hours.<br>Range 3/2M by day. |



| (1)<br>No.                                     | (2)<br>Name and Location                      | (3)<br>Position           | (4)<br>Characteristic   | (5)<br>Height | (6)<br>Range   | (7)<br>Structure   | (8)<br>Remarks   |
|--|---|---------------------------|---|---------------|----------------|--|--|
| <b>IRELAND-EAST COAST</b>                      |   |                           |   |               |                |  |  |
| 6692<br>A 5912                                 | --Aleria, N. side of entrance to River Boyne. | 53° 43.3' N<br>6° 14.2' W | <b>Q.G.</b>   | 59<br>18      | 4              | Green stone beacon.  |  |
| <b>IRELAND AND NORTHERN IRELAND-EAST COAST</b> |   |                           |   |               |                |  |  |
| DUNDALK BAY:                                   |   |                           |   |               |                |  |  |
| 6696<br>A 5920                                 | -Dundalk pile.                                | 53° 58.5' N<br>6° 17.7' W | <b>Fl.W.</b><br>period 15s<br>fl. 0.4s, ec. 14.6s   | 33<br>10      | 10             | White house, green piles; 33.  | Shown in reduced visibility.   |
| 6700<br>A 5920.4                               | --No 4.                                       | 53° 58.8' N<br>6° 18.3' W | <b>Fl.R.</b><br>period 3s   | 13<br>4       | 2              | PORT (A)<br>R, post, topmark; 30.                                      |  |
| 6702   | --Hellyhunter Buoy.                           | 54° 00.3' N<br>6° 02.0' W | <b>Q.(6)+L.Fl.W.</b><br>period 15s  |               |                | S. CARDINAL<br>YB, pillar, topmark.                                    |  |
|  | --RACON                                       |                           | <b>K(— • —)</b>   |               | 5              |  | (3 & 10cm).  |
| CARLINGFORD LOUGH:                             |   |                           |   |               |                |  |  |
| 6704<br>A 5928                                 | -Haulbowline.                                 | 54° 01.2' N<br>6° 04.6' W | <b>Fl.(3)W.</b><br>period 10s<br>fl. 0.5s, ec. 1s<br>fl. 0.5s, ec. 1s<br>fl. 0.5s, ec. 6.5s | 105<br>32     | 10             | Gray granite tower; 112.   | <b>AIS</b> (MMSI No 992501235).  |
| 6708<br>A 5932                                 | -Range, front.                                | 54° 01.8' N<br>6° 05.4' W | <b>Oc.W.</b><br>period 3s<br>lt. 2.3s, ec. 0.7s   | 23<br>7       | 11             | Framework tower, red triangular daymark point up, white lantern; 26.   | Visible 296°-324°.<br><b>AIS</b> (MMSI No 992501237).  |
| 6712<br>A 5934                                 | --Rear, 457 meters 310°26' from front.        | 54° 02.0' N<br>6° 05.7' W | <b>Oc.W.</b><br>period 3s<br>lt. 2.3s, ec. 0.7s   | 40<br>12      | 11             | Framework tower, red triangular daymark point down, white lantern; 46. | Visible 296°-324°.<br>Synchronized with front.   |
| 6714<br>A 5938                                 | -Greenore pier, head.                         | 54° 02.1' N<br>6° 08.0' W | <b>Fl.R.</b><br>period 7.5s   | 33<br>10      | 5              | Metal pole; 23.  | LED.   |
| 6720<br>A 5944                                 | -Carlingford, W. pier, head.                  | 54° 02.6' N<br>6° 11.0' W | <b>Fl.G.</b><br>period 3s   | 15<br>5       | 3              | Red pillar; 7.   |  |
| 6724<br>A 5946                                 | -Newry River Range, front.                    | 54° 06.4' N<br>6° 16.5' W | <b>Iso.W.</b><br>period 4s  | 16<br>5       | 2              | Stone column; 8.   |  |
| 6728<br>A 5946.1                               | --Rear, 274 meters 310°25' from front.        | 54° 06.5' N<br>6° 16.6' W | <b>Iso.W.</b><br>period 4s  | 48<br>15      | 2              | Stone column; 8.   |  |
| 6732<br>A 5948                                 | -Warren Point, breakwater, head.              | 54° 05.8' N<br>6° 15.2' W | <b>Fl.G.</b><br>period 3s   | 19<br>6       | 3              |  |  |
| 6736<br>A 5949                                 | --Deep water quay.                            | 54° 05.9' N<br>6° 15.5' W | <b>Fl.G.</b><br>period 5s<br>fl. 0.5s, ec. 4.5s   | 16<br>5       | 3              | Green post; 7.   |  |
| 6740<br>A 5952                                 | -Kilkeel Harbor, pier, head.                  | 54° 03.5' N<br>5° 59.3' W | <b>Fl.W.R.</b><br>period 2s<br>fl. 0.5s, ec. 1.5s   | 26<br>8       | W. 11<br>R. 9  | Black metal post; 10.  | R. 296°-313°, W.-017°.<br><b>AIS</b> (MMSI No 992356010).<br>Storm signal.                     |
| 6752<br>A 5953                                 | Annalong, E. breakwater, head.                | 54° 06.6' N<br>5° 53.8' W | <b>Oc.W.R.G.</b><br>period 5s<br>lt. 4s, ec. 1s   | 27<br>8       | 9              | Red framework tower, white lantern; 20.                                | G. 204°-249°, W.-309°, R.-024°.<br>3 F.R. (vert.) shown during port closure. 1.5 meters apart. |
| 6756<br>A 5958                                 | <b>St. John's Point.</b>                      | 54° 13.6' N<br>5° 39.6' W | <b>Q.(2)W.</b><br>period 7.5s   | 120<br>37     | 25             | Black round tower, yellow bands; 131.                                  | <b>Fog detector light:</b> V.Q.W., visible on bearing 270°.<br><b>AIS</b> (MMSI No 992351005). |
|  | -Auxiliary.                                   |                           | <b>Fl.W.R.</b><br>period 3s<br>fl. 1s, ec. 2s   | 45<br>14      | W. 15<br>R. 11 |  | W. 064°-078°, R.-156°.   |

| (1)<br>No.                                     | (2)<br>Name and Location               | (3)<br>Position           | (4)<br>Characteristic  | (5)<br>Height | (6)<br>Range          | (7)<br>Structure              | (8)<br>Remarks   |
|--|--|---------------------------|--|---------------|-----------------------|-------------------------------|--|
| <b>IRELAND AND NORTHERN IRELAND-EAST COAST</b> |  |                           |  |               |                       |                               |  |
| 6760<br>A 5962                                 | Ardglass, inner pier, head.            | 54° 15.8' N<br>5° 36.4' W | <b>Iso.W.R.G.</b><br>period 4s   | 34<br>10      | W. 10<br>R. 8<br>G. 8 | Tower; 33.                    | G. 232°-308°, W.-314°, R.-<br>010°.                              |
| 6764<br>A 5962.4                               | -Outer pier, head.                     | 54° 15.8' N<br>5° 36.0' W | <b>Fl.R.</b><br>period 3s  | 33<br>10      | 5                     | Red metal post; 13.           |  |
| 6768<br>A 5963.3                               | Angus Rock.                            | 54° 19.9' N<br>5° 31.5' W | <b>Fl.R.</b><br>period 5s<br>fl. 1s, ec. 4s  | 48<br>15      | 5                     | White tower, red top; 43.     |  |
| 6776<br>A 5970                                 | Portavogie Harbor, S. pier.            | 54° 27.5' N<br>5° 26.1' W | <b>Iso.W.R.G.</b><br>period 5s   | 30<br>9       | W. 10<br>R. 8<br>G. 8 | Square masonry tower; 16.     | G. 148°-258°, W.-275°, R.-<br>348°.                              |
| 6780   | Skulmartin Buoy.                       | 54° 32.0' N<br>5° 25.0' W | <b>L.Fl.W.</b><br>period 10s   |               |                       | SAFE WATER<br>RW, spherical.  | <b>Whistle.</b><br><b>Radar reflector.</b>                       |
| 6784<br>A 5973                                 | Ballywalter, breakwater, head.         | 54° 32.7' N<br>5° 28.9' W | <b>Fl.W.R.G.</b><br>period 3s  | 13<br>4       | 9                     | Metal column; 10.             | G. 240°-267°, W.-277°, R.-<br>314°.<br>Difficult to distinguish. |
| 6788<br>A 5974                                 | Donaghadee Harbor.                     | 54° 38.7' N<br>5° 31.9' W | <b>Iso.W.R.</b><br>period 4s   | 56<br>17      | W. 17<br>R. 12        | White tower; 52.              | W. 118°-326°, R.-357°.   |
| 6792<br>A 5976                                 | Mew Island.                            | 54° 41.9' N<br>5° 30.8' W | <b>F.Fl.(4)W.</b><br>period 30s<br>fl. 0.7s, ec. 4.3s<br>fl. 0.7s, ec. 4.3s<br>fl. 0.7s, ec. 4.3s<br>fl. 0.7s, ec. 14.3s | 115<br>35     | 18                    | Black tower, white band; 121. | <b>AIS</b> (MMSI No 992351109).                                  |
|  | RACON                                  |                           | <b>O(---)</b>  |               | 14                    |                               | (3 & 10cm).  |
| 6794<br>A 5980                                 | Bangor Harbor, N. pier, head.          | 54° 40.0' N<br>5° 40.3' W | <b>Iso.R.</b><br>period 12s  | 30<br>9       | 9                     | Red concrete column; 36.      |  |
| 6796<br>A 5988                                 | Kilroot Point, jetty, head.            | 54° 43.5' N<br>5° 44.6' W | <b>Oc.G.</b><br>period 10s<br>lt. 8s, ec. 2s   | 20<br>6       | 9                     | Green mast; 7.                |  |
| 6800<br>A 5987                                 | Kilroot Power Station Intake<br>basin. | 54° 43.2' N<br>5° 45.9' W | <b>Oc.G.</b><br>period 4s  |               |                       |                               | Q.R. and 4 F.R. (vert) on<br>chimney 500 meters N.               |
| 6801<br>A 5987.5                               | -Unloading jetty.                      | 54° 43.3' N<br>5° 45.3' W | <b>2 F.G.</b> (vert.)  | 19<br>6       | 2                     | Mast; 16.                     | 2 meters apart.  |
| 6804<br>A 5986                                 | Cloghan, jetty, N. head.               | 54° 44.3' N<br>5° 42.3' W | <b>Fl.G.</b><br>period 3s<br>fl. 1s, ec. 2s  |               | 2                     | Green post.                   | <b>Horn:</b> 1 bl. ev. 15s.                                      |
| 6808<br>A 5986.4                               | -S. head.                              | 54° 44.1' N<br>5° 42.5' W | <b>Fl.G.</b><br>period 3s<br>fl. 1s, ec. 2s  |               | 2                     | Green post.                   |  |
| <b>CARRICKFERGUS HARBOR:</b>                   |  |                           |  |               |                       |                               |  |
| 6812<br>A 5992                                 | -E. pier, head.                        | 54° 42.6' N<br>5° 48.4' W | <b>Fl.G.</b><br>period 7.5s<br>fl. 0.7s, ec. 6.8s  | 18<br>5       | 4                     | Green metal column; 12.       |  |
| 6816<br>A 5993                                 | -W. pier, head.                        | 54° 42.6' N<br>5° 48.4' W | <b>Fl.R.</b><br>period 7.5s<br>fl. 0.7s, ec. 6.8s  | 18<br>5       | 4                     | Red metal column; 12.         |  |
| <b>BELFAST-VICTORIA CHANNEL:</b>               |  |                           |  |               |                       |                               |  |
| 6819<br>A 5999                                 | -No 8.                                 | 54° 39.8' N<br>5° 50.4' W | <b>Q.(2)R.</b><br>period 6s<br>fl. 0.4s, ec. 1s<br>fl. 0.4s, ec. 4.2s  |               | 7                     | Red beacon.                   |  |
| 6820<br>A 6000                                 | -No 9.                                 | 54° 39.6' N<br>5° 50.9' W | <b>Q.(3)G.</b><br>period 6s  |               |                       | Green beacon.                 |  |

| (1)<br>No.                                     | (2)<br>Name and Location                               | (3)<br>Position           | (4)<br>Characteristic   | (5)<br>Height | (6)<br>Range | (7)<br>Structure                         | (8)<br>Remarks |
|--|--|---------------------------|---|---------------|--------------|--|----------------|
| <b>IRELAND AND NORTHERN IRELAND-EAST COAST</b> |  |                           |   |               |              |  |                |
| 6822<br>A 6001                                 | -No 10.  | 54° 39.4' N<br>5° 50.9' W | <b>Q.(2)R.</b><br>period 6s<br>fl. 0.4s, ec. 1s<br>fl. 0.4s, ec. 4.2s |               |              | Red beacon.                              |                |
| 6824<br>A 6002                                 | -No 11.  | 54° 39.3' N<br>5° 51.3' W | <b>Fl.G.</b><br>period 3s   |               |              | Green beacon.                            |                |
| 6828<br>A 6003                                 | -No 12.  | 54° 39.0' N<br>5° 51.4' W | <b>Q.(4)R.</b><br>period 6s   |               |              | Red beacon.                              |                |
| 6832<br>A 6004                                 | -No 13.  | 54° 38.9' N<br>5° 51.8' W | <b>Q.(3)G.</b><br>period 6s   |               |              | Green beacon.                            |                |
| 6836<br>A 6005                                 | -No 14.  | 54° 38.6' N<br>5° 51.9' W | <b>Q.(2)R.</b><br>period 6s   |               |              | Red beacon.                              |                |
| 6840<br>A 6006                                 | -No 15.  | 54° 38.4' N<br>5° 52.5' W | <b>Fl.G.</b><br>period 3s   |               |              | Green beacon.                            |                |
| 6844<br>A 6007                                 | -No 16.  | 54° 38.2' N<br>5° 52.4' W | <b>Q.(2)R.</b><br>period 6s<br>fl. 0.4s, ec. 1s<br>fl. 0.4s, ec. 4.2s |               | 8            | Red beacon.                              |                |
| 6856<br>A 6011                                 | -No 19.  | 54° 37.6' N<br>5° 53.5' W | <b>Q.G.</b>   |               |              | Green beacon.                            |                |
| 6872<br>A 6014.7                               | -Dolphin.  | 54° 37.7' N<br>5° 53.4' W | <b>2 F.G.</b> (vert.)   |               |              |  |                |
| 6874<br>A 6015                                 | -Daisy Range, front                                    | 54° 37.4' N<br>5° 53.2' W | <b>Fl.R.</b><br>period 5s<br>fl. 0.5s, ec. 4.5s                       |               |              | PORT (A)<br>R, pile, topmark.            |                |
| 6876<br>A 6015.1                               | --Rear, 120 meters 122° from front.                    | 54° 37.4' N<br>5° 53.1' W | <b>Fl.(2)R.</b><br>period 5s  |               |              | Beacon, red triangular daymark point up. |                |
| 6888<br>A 6017                                 | --M2.  | 54° 37.4' N<br>5° 53.2' W | <b>Fl.(4)R.</b><br>period 6s  |               |              | PORT (A)<br>R, pile, topmark.            |                |
| 6892<br>A 6019                                 | --M1.  | 54° 37.3' N<br>5° 53.3' W | <b>Q.G.</b>   | 7<br>2        | 2            | STARBOARD (A)<br>G, pile, topmark.       |                |
| 6896<br>A 6019.3                               | --M3.  | 54° 37.1' N<br>5° 53.4' W | <b>Fl.G.</b><br>period 4s<br>fl. 1.5s, ec. 2.5s                       | 5<br>2        | 2            | STARBOARD (A)<br>G, pile, topmark.       |                |
| -Musgrave Channel:                             |  |                           |   |               |              |  |                |
| 6900<br>A 6019.6                               | --E. side.   | 54° 36.8' N<br>5° 53.5' W | <b>Fl.(2)R.</b><br>period 6s  | 5<br>2        | 2            | Pile.                                    |                |
| 6904<br>A 6019.8                               | -East Twin Island, W. side.                            | 54° 37.4' N<br>5° 53.6' W | <b>Q.(6)R.</b><br>period 9s   |               |              | PORT (A)<br>R, pile, topmark.            |                |
| 6908<br>A 6020                                 | -West Twin Island, off NE. point.                      | 54° 37.4' N<br>5° 53.7' W | <b>Fl.G.</b><br>period 4s<br>fl. 1.5s, ec. 2.5s                       | 33<br>10      | 2            | STARBOARD (A)<br>G, column, topmark.     |                |
| 6916<br>A 6020.6                               | -Thompson Dock, W. side of entrance.                   | 54° 37.0' N<br>5° 54.0' W | <b>Fl.R.</b><br>period 1.5s<br>fl. 0.4s, ec. 1.1s                     | 25<br>8       | 1            | Metal framework tower; 50.               |                |
| 6920<br>A 6021                                 | -River Lagan, Barnett Dock entrance, off Ballast Quay. | 54° 36.8' N<br>5° 54.6' W | <b>2 F.R.</b> (vert.)   |               |              | Dolphin.                                 |                |
| 6928<br>A 6021.6                               | --Queens wharf, N. head.                               | 54° 36.7' N<br>5° 54.6' W | <b>Fl.R.</b><br>period 5s<br>fl. 0.5s, ec. 4.5s                       | 22<br>7       | 2            | PORT (A)<br>R, pile, topmark; 16.        |                |
| 6932<br>A 6021.8                               | ---S. head.  | 54° 36.4' N<br>5° 54.9' W | <b>Q.R.</b>   | 22<br>7       | 2            | PORT (A)<br>R, pile, topmark.            |                |
| 6936<br>A 6022                                 | --H1.  | 54° 37.6' N<br>5° 53.6' W | <b>Fl.G.</b><br>period 2.5s<br>fl. 0.5s, ec. 2s                       |               |              | STARBOARD (A)<br>G, pile, topmark.       |                |

| (1)<br>No.                                     | (2)<br>Name and Location                  | (3)<br>Position           | (4)<br>Characteristic   | (5)<br>Height | (6)<br>Range   | (7)<br>Structure   | (8)<br>Remarks  |
|--|---|---------------------------|---|---------------|----------------|--|---|
| <b>IRELAND AND NORTHERN IRELAND-EAST COAST</b> |   |                           |   |               |                |  |   |
| 6948<br>A 6022.2                               | --H2.                                     | 54° 37.4' N<br>5° 53.9' W | <b>Oc.R.</b><br>period 4s<br>lt. 3.5s, ec. 0.5s   |               |                | Pile, square daymark.  |   |
| 6952<br>A 6022.4                               | --H3.                                     | 54° 37.4' N<br>5° 53.9' W | <b>Oc.G.</b><br>period 4s<br>lt. 3.5s, ec. 0.5s   |               |                | Pile, triangular daymark point up.                             |   |
| 6956<br>A 6023                                 | --H4.                                     | 54° 37.2' N<br>5° 54.2' W | <b>Fl.R.</b><br>period 4s<br>fl. 1.5s, ec. 2.5s   |               |                | Pile, square daymark.  |   |
| 6960<br>A 6022.6                               | Container terminal.                       | 54° 37.3' N<br>5° 54.2' W | <b>Fl.(3)G.</b><br>period 6s  | 33<br>10      |                |  |   |
| 6964<br>A 6024                                 | --H5.                                     | 54° 37.2' N<br>5° 54.4' W | <b>Fl.G.</b><br>period 2s<br>fl. 0.5s, ec. 1.5s   |               |                | Pile, triangular daymark point up.                             |   |
| 6968<br>A 6025                                 | --Power Station.                          | 54° 37.2' N<br>5° 54.4' W | <b>Q.R.</b>   |               |                | Pile.  |   |
| 6972<br>A 6028                                 | <b>Black Head.</b>                        | 54° 46.0' N<br>5° 41.3' W | <b>Fl.W.</b><br>period 3s<br>fl. 0.2s, ec. 2.8s   | 148<br>45     | 27             | White octagonal tower; 52.                                     | <b>AIS</b> (MMSI No 992351002).   |
| LOUGH LARNE:                                   |   |                           |   |               |                |  |   |
| 6984<br>A 6031                                 | <b>-Sandy Point.</b>                      | 54° 51.3' N<br>5° 47.9' W | <b>Iso.W.R.</b><br>period 5s  | 75<br>23      | W. 16<br>R. 12 | Gray tower; 92.  | W. 232°06'-239°42', R.-000°.  |
| 6988<br>A 6033.4                               | -N. beacon No 2.                          | 54° 51.1' N<br>5° 47.5' W | <b>Fl.R.</b><br>period 3s<br>fl. 0.6s, ec. 2.4s   | 12<br>4       | 4              | Red pile structure.  |   |
| 6992<br>A 6035                                 | -Beacon No 4.                             | 54° 50.8' N<br>5° 47.5' W | <b>Fl.(2)R.</b><br>period 6s  | 12<br>4       | 4              | Red pile structure.  |   |
| 6996<br>A 6034                                 | -NE. corner of Continental Pier,<br>head. | 54° 51.0' N<br>5° 47.6' W | <b>2 F.G.</b> (vert.)   | 23<br>7       | 1              | Dolphin.   | Visible 167°-240°.<br>2 meters apart.<br>Occasional.                    |
| 7000<br>A 6033                                 | -Range, front.                            | 54° 49.6' N<br>5° 47.8' W | <b>Fl.W.</b><br>period 2.5s<br>fl. 1s, ec. 1.5s   | 20<br>6       | 12             | Red pile structure, white<br>diamond daymark, red<br>stripe.   | Visible 179°-189°.  |
| 7004<br>A 6033.1                               | --Rear, 610 meters 184° from<br>front.    | 54° 49.3' N<br>5° 47.8' W | <b>Oc.W.</b><br>period 5s   | 45<br>14      | 12             | Round aluminum tower, white<br>diamond daymark, red<br>stripe. | Visible 179°-189°.  |
| 7008<br>A 6037                                 | -Ballylumford, jetty, NW. head.           | 54° 50.5' N<br>5° 47.2' W | <b>2 F.R.</b> (vert.)   | 26<br>8       | 2              | Post, dolphin; 13.   |   |
| 7012<br>A 6037.2                               | --SE. side.                               | 54° 50.5' N<br>5° 47.1' W | <b>2 F.R.</b> (vert.)   | 25<br>8       |                | Post, dolphin; 13.   |   |
| 7016<br>A 6042                                 | <b>East Maiden.</b>                       | 54° 55.7' N<br>5° 43.7' W | <b>Fl.(3)W.</b><br>period 15s<br>fl. 0.1s, ec. 2.5s<br>fl. 0.1s, ec. 2.5s<br>fl. 0.1s, ec. 9.7s | 105<br>32     | 18             | White tower, black band; 75.                                   | <b>AIS</b> (MMSI No 992351110).   |
|  | Auxiliary.                                |                           | <b>Fl.R.</b><br>period 5s<br>fl. 0.7s, ec. 4.3s   | 48<br>15      | 8              |  | Visible 142°-182° over Russel<br>and Highland Rocks.<br>Shown 24 hours. |
|  | RACON                                     |                           | <b>M(— —)</b>   |               | 11             |  | (3 & 10cm).   |
| 7017<br>A 6043                                 | S. Carnlough Harbor, N. pier.             | 54° 59.6' N<br>5° 59.3' W | <b>Fl.G.</b><br>period 3s<br>fl. 0.5s, ec. 2.5s   | 12<br>4       | 5              | White concrete column, black<br>bands; 20.                     |   |
| 7018<br>A 6043.2                               | -S. pier.                                 | 54° 59.6' N<br>5° 59.3' W | <b>Fl.R.</b><br>period 3s<br>fl. 0.5s, ec. 2.5s   | 20<br>6       | 5              | White concrete column, black<br>bands; 13.                     |   |

| (1)<br>No.                                     | (2)<br>Name and Location                  | (3)<br>Position           | (4)<br>Characteristic  | (5)<br>Height | (6)<br>Range | (7)<br>Structure                                    | (8)<br>Remarks  |
|--|---|---------------------------|--|---------------|--------------|---|---|
| <b>IRELAND AND NORTHERN IRELAND-EAST COAST</b> |   |                           |  |               |              |   |   |
| 7020<br>A 6044                                 | Red Bay, pier, head.                      | 55° 03.9' N<br>6° 03.1' W | <b>Fl.W.</b><br>period 3s<br>fl. 0.5s, ec. 2.5s  | 33<br>10      | 5            | Metal pole; 10.                                     |   |
| RATHLIN ISLAND:                                |   |                           |  |               |              |   |   |
| 7028<br>A 6060                                 | -Rue Point, S. extremity.                 | 55° 15.5' N<br>6° 11.5' W | <b>Fl.(2)W.</b><br>period 5s<br>fl. 0.5s, ec. 1s<br>fl. 0.5s, ec. 3s   | 52<br>16      | 14           | White octagonal concrete tower,<br>black bands; 36. |   |
| 7032<br>A 6062                                 | <b>-Rathlin East.</b>                     | 55° 18.1' N<br>6° 10.3' W | <b>Fl.(4)W.</b><br>period 20s<br>fl. 0.2s, ec. 2.3s<br>fl. 0.2s, ec. 2.3s<br>fl. 0.2s, ec. 2.3s<br>fl. 0.2s, ec. 12.3s | 243<br>74     | 26           | White tower, black band; 89.                        | Visible 110°-006° and 036°-058°.  |
|  | -RACON                                    |                           | <b>G(— — •)</b>  |               | 15           |   | (3 & 10cm).<br>Azimuth coverage 089°-003°.  |
| 7036<br>A 6064                                 | <b>-Rathlin West.</b>                     | 55° 18.0' N<br>6° 16.8' W | <b>Fl.R.</b><br>period 5s<br>fl. 0.4s, ec. 4.6s  | 204<br>62     | 22           | White tower, lantern at base; 59.                   | Visible 015°-225°.<br><b>Fog detector light:</b> V.Q.W.,<br>visible on bearing 119°.<br><b>AIS</b> (MMSI No 992351000). |
| 7038<br>A 6065                                 | -Manor House pier.                        | 55° 17.6' N<br>6° 11.7' W | <b>Oc.W.R.G.</b><br>period 4s<br>lt. 3s, ec. 1s  |               | 5            |   | G. 020°-023°, W.-026°, R.-029°.   |
| 7039   | <i>Skerries Buoy.</i>                     | 55° 13.9' N<br>6° 36.9' W | <b>Fl.R.</b><br>period 5s<br>fl. 0.3s, ec. 4.7s  |               |              | PORT (A)<br>R, can.                                 | <b>AIS</b> (MMSI No 992351096).   |
| 7040<br>A 6071                                 | Portrush, N. pier, head.                  | 55° 12.3' N<br>6° 39.6' W | <b>Fl.R.</b><br>period 3s  | 19<br>6       | 3            | Red metal mast, concrete base.                      | Visible 220°-156°.  |
| 7044<br>A 6072                                 | -S. pier, head.                           | 55° 12.3' N<br>6° 39.5' W | <b>Fl.G.</b><br>period 3s  | 19<br>6       | 3            | Green metal mast, concrete<br>base.                 | Visible 289°-120°.  |
| 7056<br>A 6073                                 | Portstewart Point.                        | 55° 11.3' N<br>6° 43.3' W | <b>Oc.R.</b><br>period 10s<br>lt. 7s, ec. 3s   | 70<br>21      | 5            | Red square concrete hut; 10.                        | Visible 040°-220°.  |
| 7060<br>A 6076                                 | River Bann, entrance<br>Ballaghran Point. | 55° 10.3' N<br>6° 46.3' W | <b>Fl.R.</b><br>period 5s  | 21<br>6       | 2            | White pyramidal concrete tower;<br>14.              |   |
| 7062<br>A 6076.5                               | Ballyaghan.                               | 55° 09.9' N<br>6° 45.9' W | <b>Fl.(2)R.</b><br>period 5s   |               |              | Red beacon, square daymark.                         |   |
| 7064<br>A 6074                                 | Coleraine, front.                         | 55° 10.0' N<br>6° 46.2' W | <b>Oc.W.</b><br>period 5s  | 20<br>6       | 2            | White pyramidal metal tower; 17.                    | The river is marked by Fl.G.<br>on starboard side, and<br>Fl.R. on port side.   |
| 7068<br>A 6074.1                               | -Rear, 245 meters 165° from<br>front.     | 55° 09.9' N<br>6° 46.2' W | <b>Oc.W.</b><br>period 5s  | 45<br>14      | 2            | White square concrete tower.                        |   |
| 7072<br>A 6075                                 | -W. mole.                                 | 55° 10.3' N<br>6° 46.4' W | <b>Fl.G.</b><br>period 5s  | 13<br>4       | 2            | STARBOARD (A)<br>G, mast, topmark; 10.              | Visible 170°-000°.  |

#### NORTHERN IRELAND-EAST AND NORTH COASTS

|                |                        |                           |   |          |                         |   |                                 |
|----------------|------------------------|---------------------------|---|----------|-------------------------|---|---------------------------------|
| 7076<br>A 6084 | <b>Inishowen Head.</b> | 55° 13.6' N<br>6° 55.7' W | <b>Fl.(2)W.R.G.</b><br>period 10s<br>fl. 1s, ec. 2s<br>fl. 1s, ec. 6s | 92<br>28 | W. 18<br>R. 14<br>G. 14 | White tower, black bands; 75.             | G. 197°-211°, W.-249°, R.-000°. |
| 7080<br>A 6088 | -Warren Point.         | 55° 12.6' N<br>6° 57.1' W | <b>Fl.W.</b><br>period 1.5s<br>fl. 0.2s, ec. 1.3s                     | 36<br>11 | 4                       | White round tower, green<br>abutment; 26. | Visible 232°-061°.              |
| 7084<br>A 6092 | -Magilligan Point.     | 55° 11.7' N<br>6° 58.1' W | <b>Q.R.</b>   | 24<br>7  | 4                       | Red pile structure.                       |                                 |

| (1)<br>No.                                      | (2)<br>Name and Location                            | (3)<br>Position           | (4)<br>Characteristic                             | (5)<br>Height | (6)<br>Range | (7)<br>Structure                   | (8)<br>Remarks                                    |
|---|---|---------------------------|---|---------------|--------------|------------------------------------|---|
| <b>NORTHERN IRELAND-EAST AND NORTH COASTS</b>   |   |                           |   |               |              |                                    |   |
| 7088<br>A 6095                                  | -McKinney's Bank.                                   | 55° 11.0' N<br>7° 00.5' W | <b>Fl.R.</b><br>period 5s                         | 13<br>4       | 3            | Red pile structure.                |   |
| 7092<br>A 6096                                  | -Moville, 549 meters from quay.                     | 55° 11.0' N<br>7° 02.1' W | <b>Fl.W.R.</b><br>period 2.5s                     | 37<br>11      | 4            | White house, green piles; 44.      | W. 240°-064°, R.-240°.                            |
| 7096<br>A 6098                                  | -Glenburnie.  | 55° 10.4' N<br>7° 01.6' W | <b>Oc.R.</b><br>period 6s                         | 10<br>3       | 3            | Red pile structure.                |   |
| 7100<br>A 6100                                  | -Salt pans, N. Middle Bank, NE. head.               | 55° 10.5' N<br>7° 03.1' W | <b>Fl.R.</b><br>period 2.5s                       | 13<br>4       | 3            | Red pile structure.                |   |
| 7104<br>A 6101                                  | -Clare, W. side of N. Middle Bank.                  | 55° 09.9' N<br>7° 05.0' W | <b>Q.R.</b>                                       | 13<br>4       | 3            | Red pile structure.                |   |
| 7108<br>A 6104                                  | -Redcastle, outer edge of Ridge Shoal.              | 55° 08.8' N<br>7° 07.6' W | <b>Oc.G.</b><br>period 5s                         | 13<br>4       | 5            | STARBOARD (A)<br>G, pile, topmark. |   |
| <b>NORTHERN IRELAND AND IRELAND-NORTH COAST</b> |   |                           |   |               |              |                                    |   |
| LOUGH FOYLE:                                    |   |                           |   |               |              |                                    |   |
| 7112<br>A 6105                                  | -Vance.   | 55° 08.6' N<br>7° 07.9' W | <b>Fl.R.</b><br>period 5s                         | 13<br>4       | 3            | PORT (A)<br>R, pile, topmark.      |   |
| 7116<br>A 6106                                  | -Whitecastle, SE. side of channel.                  | 55° 08.0' N<br>7° 09.4' W | <b>Q.R.</b>                                       | 13<br>4       | 3            | PORT (A)<br>R, pile, topmark.      |   |
| 7120<br>A 6107                                  | -Cabry, NW. side of channel.                        | 55° 07.1' N<br>7° 11.3' W | <b>Fl.G.</b><br>period 2.5s<br>fl. 0.2s, ec. 2.3s | 13<br>4       | 3            | STARBOARD (A)<br>G, pile, topmark. |   |
| 7124<br>A 6108                                  | -Quigleys Point, off point on SE. side of channel.  | 55° 07.0' N<br>7° 11.2' W | <b>Fl.R.</b><br>period 2s<br>fl. 0.2s, ec. 1.8s   | 13<br>4       | 3            | PORT (A)<br>R, pile, topmark.      | Q.W. 16M and R. obstruction lights 4.6 miles SSE. |
| 7128<br>A 6110                                  | -Greenbank, off Aught Point, W. side of channel.    | 55° 06.5' N<br>7° 12.1' W | <b>Q.G.</b>                                       | 13<br>4       | 3            | STARBOARD (A)<br>G, pile, topmark. |   |
| 7132<br>A 6112                                  | -Lepers Point, off Aught Point, E. side of channel. | 55° 06.4' N<br>7° 12.0' W | <b>Q.R.</b>                                       | 13<br>4       | 3            | PORT (A)<br>R, pile, topmark.      |   |
| 7140<br>A 6114                                  | -Ture, on spit, SE. side of channel.                | 55° 05.8' N<br>7° 12.8' W | <b>Fl.R.</b><br>period 4s                         | 13<br>4       | 3            | PORT (A)<br>R, pile, topmark.      |   |
| 7144<br>A 6116                                  | -Aught.   | 55° 05.8' N<br>7° 12.9' W | <b>Fl.G.</b><br>period 5s                         | 13<br>4       | 3            | Green pile, lantern.               |   |
| 7148<br>A 6117                                  | -Drumskellan, off Ture Point, W. side of channel.   | 55° 05.6' N<br>7° 13.1' W | <b>Fl.G.</b><br>period 2.5s                       | 13<br>4       | 3            | STARBOARD (A)<br>G, pile, topmark. |   |
| 7152<br>A 6124                                  | -Kilderry, W. side of channel.                      | 55° 04.1' N<br>7° 14.0' W | <b>Fl.G.</b><br>period 2s                         | 13<br>4       | 3            | STARBOARD (A)<br>G, pile, topmark. |   |
| 7156<br>A 6120                                  | -Crummin Point, off point, W. side of channel.      | 55° 04.7' N<br>7° 13.6' W | <b>Q.G.</b>                                       | 13<br>4       | 3            | STARBOARD (A)<br>G, pile, topmark. |   |
| 7160<br>A 6122                                  | -Willsboro, E. side of channel.                     | 55° 04.6' N<br>7° 13.5' W | <b>Fl.(2)R.</b><br>period 4s                      | 13<br>4       | 3            | PORT (A)<br>R, pile, topmark.      |   |
| 7164<br>A 6130                                  | -Faghlan, SE. side of channel.                      | 55° 03.1' N<br>7° 14.5' W | <b>Fl.R.</b><br>period 4s                         | 13<br>4       | 3            | PORT (A)<br>R, pile, topmark.      |   |
| 7168<br>A 6127                                  | -Muff, W. side of channel.                          | 55° 03.6' N<br>7° 14.3' W | <b>Fl.G.</b><br>period 2s                         | 13<br>4       | 3            | STARBOARD (A)<br>G, pile, topmark. |   |
| 7172<br>A 6128                                  | --Coneyburrow.                                      | 55° 03.3' N<br>7° 14.5' W | <b>Q.G.</b>                                       | 13<br>4       | 3            | STARBOARD (A)<br>G, pile, topmark. |   |
| 7176<br>A 6131                                  | -Culmore, on point.                                 | 55° 02.8' N<br>7° 15.2' W | <b>Q.G.</b>                                       | 13<br>4       | 3            | STARBOARD (A)<br>G, pile, topmark. |   |
| 7180<br>A 6134.5                                | -Lisahally Quay, NE. corner.                        | 55° 02.6' N<br>7° 15.7' W | <b>2 F.R.</b> (vert.)                             | 16<br>5       | 3            |                                    | 2 meters apart.                                   |

| (1)<br>No.                                      | (2)<br>Name and Location           | (3)<br>Position           | (4)<br>Characteristic   | (5)<br>Height | (6)<br>Range   | (7)<br>Structure                             | (8)<br>Remarks  |
|---|------------------------------------|---------------------------|---|---------------|----------------|--|---|
| <b>NORTHERN IRELAND AND IRELAND-NORTH COAST</b> |                                    |                           |   |               |                |  |   |
| 7188<br>A 6130.2                                | -Coolkeeragh wharf, NE. head.      | 55° 03.0' N<br>7° 14.6' W | <b>Q.(2)R.</b><br>period 2s   |               |                |  |   |
| 7192<br>A 6130.3                                | --SW. head.                        | 55° 02.9' N<br>7° 14.7' W | <b>Fl.R.</b><br>period 5s   |               |                |  |   |
| 7193<br>A 6130.5                                | --NE. head.                        | 55° 02.9' N<br>7° 14.7' W | <b>2 F.R.</b> (vert.)   |               |                |  |   |
| 7193.2<br>A 6130.6                              | --SW. head.                        | 55° 02.8' N<br>7° 15.0' W | <b>Fl.R.</b><br>period 2s   |               |                |  |   |
| 7193.4<br>A 6130.8                              | -Jetty.                            | 55° 02.7' N<br>7° 15.0' W | <b>Fl.R.</b><br>period 2s   |               |                |  |   |
| 7196<br>A 6136                                  | -Ballynagard, W. side of channel.  | 55° 02.3' N<br>7° 16.4' W | <b>Fl.W.</b><br>period 3s   | 19<br>6       | 3              | Green round tower, white lantern.            |   |
| 7200<br>A 6138                                  | -Otter Bank, E. side of channel.   | 55° 02.0' N<br>7° 16.7' W | <b>Fl.R.</b><br>period 4s   | 20<br>6       | 3              | Red round tower, white structure.            |   |
| 7204<br>A 6142                                  | -Mountjoy, E. side of channel.     | 55° 01.2' N<br>7° 17.5' W | <b>Q.R.</b>   | 16<br>5       | 3              | White beacon, red base.                      |   |
| 7208<br>A 6140                                  | -Brook Hall, W. side of channel.   | 55° 01.7' N<br>7° 17.1' W | <b>Q.G.</b>   | 20<br>6       | 3              | White tower, green base.                     |   |
| 7216<br>A 6152                                  | -Rosse's Bay Channel Range, front. | 55° 00.7' N<br>7° 17.5' W | <b>Oc.W.</b><br>period 10s  | 13<br>4       | 3              | Beacon, white triangular daymark point up.   | Visible 127°-190°.  |
|   |                                    |                           | <b>Oc.R.</b><br>period 5s   | 16<br>5       | 3              |  |   |
| 7220<br>A 6152.1                                | --Rear, 085° from front.           | 55° 00.7' N<br>7° 16.9' W | <b>Oc.W.</b><br>period 10s  | 23<br>7       | 3              | Beacon, white triangular daymark point down. | Synchronized with front.  |
| 7224<br>A 6158                                  | -Clooney.                          | 55° 00.7' N<br>7° 18.1' W | <b>Fl.R.</b><br>period 4s   | 13<br>4       | 3              | PORT (A)<br>R, pile, topmark.                |   |
| 7228<br>A 6162                                  | -St. Columb's, on Clooney Bank.    | 55° 00.6' N<br>7° 18.6' W | <b>Fl.R.</b><br>period 4s   | 13<br>4       | 3              | PORT (A)<br>R, pile, topmark.                |   |
| 7232<br>A 6163                                  | -Aberfoyle, off Columbs Point.     | 55° 00.3' N<br>7° 19.0' W | <b>Fl.R.</b><br>period 2s   | 16<br>5       | 3              | White structure, red piles.                  |   |
| 7236<br>A 6164                                  | <b>Inishtrahull.</b>               | 55° 25.8' N<br>7° 14.6' W | <b>Fl.(3)W.</b><br>period 15s<br>fl. 0.2s, ec. 2.3s<br>fl. 0.2s, ec. 2.3s<br>fl. 0.2s, ec. 9.8s                                   | 194<br>59     | 19             | White tower; 75.                             | Obscured 256°-261° within 3M.<br><b>AIS</b> (MMSI No 992501229).            |
|   | <b>RACON</b>                       |                           | <b>T(-)</b>   |               | <b>24</b>      |  | Azimuth coverage 060°-310°.<br>(3 & 10cm).                                  |
| <b>LOUGH SWILLY:</b>                            |                                    |                           |   |               |                |  |   |
| 7240<br>A 6168                                  | <b>-Fanad Head.</b>                | 55° 16.6' N<br>7° 37.9' W | <b>Fl.(5)W.R.</b><br>period 20s<br>fl. 1s, ec. 1.5s<br>fl. 1s, ec. 1.5s<br>fl. 1s, ec. 1.5s<br>fl. 1s, ec. 1.5s<br>fl. 1s, ec. 9s | 127<br>39     | W. 18<br>R. 14 | White tower; 72.                             | R. 100°-110°, W.-313°, R.-345°, W.-100°.<br><b>AIS</b> (MMSI No 992501215). |
| 7244<br>A 6172                                  | -Dunree Head.                      | 55° 11.9' N<br>7° 33.2' W | <b>Fl.(2)W.R.</b><br>period 5s<br>fl. 0.6s, ec. 0.9s<br>fl. 0.6s, ec. 2.9s  | 161<br>49     | W. 12<br>R. 9  | House; 20.                                   | R. 320°-328°, W.-183°, R.-196°.   |
| 7248<br>A 6174                                  | -Buncrana, pier, head.             | 55° 07.6' N<br>7° 27.8' W | <b>Iso.W.R.</b><br>period 4s  | 36<br>11      | W. 13<br>R. 10 | Red tower, white band; 20.                   | R. 300°-052°, W.-139°, R.-195°.   |
| 7252<br>A 6176                                  | -Rathmullan, pier, head.           | 55° 05.7' N<br>7° 31.6' W | <b>Fl.G.</b><br>period 3s   |               | 5              | Green structure.                             | Visible 206°-345°.  |

| (1)<br>No.                                      | (2)<br>Name and Location              | (3)<br>Position           | (4)<br>Characteristic  | (5)<br>Height | (6)<br>Range | (7)<br>Structure                       | (8)<br>Remarks  |
|---|---------------------------------------|---------------------------|--|---------------|--------------|--|---|
| <b>NORTHERN IRELAND AND IRELAND-NORTH COAST</b> |                                       |                           |  |               |              |  |   |
| MULROY BAY AND LOUGH:                           |                                       |                           |  |               |              |  |   |
| 7256<br>A 6180                                  | -Ravedy Island, N. head.              | 55° 15.1' N<br>7° 46.9' W | <b>Fl.W.</b><br>period 3s<br>fl. 0.3s, ec. 2.7s  | 30<br>9       | 3            | Concrete tower; 15.                    | Visible 177°-357°.                                    |
| 7260<br>A 6186                                  | -Dundooan Rocks.                      | 55° 13.0' N<br>7° 48.0' W | <b>Q.G.</b>  | 13<br>4       | 1            | Green concrete tower; 13.              |   |
| 7264<br>A 6190                                  | -Crannoge Point, W. side of lough.    | 55° 12.3' N<br>7° 48.4' W | <b>Fl.G.</b><br>period 5s<br>fl. 0.5s, ec. 4.5s  | 16<br>5       | 2            | Green concrete tower; 13.              |   |
| <b>IRELAND-WEST COAST</b>                       |                                       |                           |  |               |              |  |   |
| 7268<br>A 6196                                  | -Downings Bay, pier, head.            | 55° 11.4' N<br>7° 50.4' W | <b>Fl.R.</b><br>period 3s  | 16<br>5       | 2            | Red post.                              | Visible 283°-090.                                     |
| 7272<br>A 6198.5                                | -Portnablahy Range, front.            | 55° 10.8' N<br>7° 55.8' W | <b>Oc.W.</b><br>period 6s  | 23<br>7       | 2            | Red concrete column, white band.       |   |
| 7276<br>A 6198.51                               | --Rear, 81 meters 125°15' from front. | 55° 10.8' N<br>7° 55.6' W | <b>Oc.W.</b><br>period 6s  | 39<br>12      | 2            | White concrete column, red band.       |   |
| 7280<br>A 6200                                  | <b>Tory Island.</b>                   | 55° 16.4' N<br>8° 14.9' W | <b>Fl.(4)W.</b><br>period 30s<br>fl. 0.2s, ec. 4.8s<br>fl. 0.2s, ec. 4.8s<br>fl. 0.2s, ec. 4.8s<br>fl. 0.2s, ec. 14.8s | 130<br>40     | 18           | Black tower, white band; 89.           | Visible 302°-277°.                                    |
| RACON   |                                       |                           |  | <b>M(— —)</b> |              | 12                                     | (3 & 10cm).   |
| 7284<br>A 6203                                  | Bloody Foreland.                      | 55° 09.5' N<br>8° 17.0' W | <b>Fl.W.G.</b><br>period 7.5s  | 47<br>14      | W. G. 6<br>4 | White concrete hut; 12.                | W. 062°-232°, G.-062°.                                |
| 7285<br>A 6203.5                                | Glassagh, Range, front.               | 55° 06.8' N<br>8° 18.9' W | <b>Oc.W.</b><br>period 8s<br>lt. 6s, ec. 2s  | 39<br>12      | 3            | White concrete column, black band; 19. |   |
| 7285.1<br>A 6203.51                             | --Rear, 46 meters 137°25' from front. | 55° 06.8' N<br>8° 18.9' W | <b>Oc.W.</b><br>period 8s<br>lt. 6s, ec. 2s  | 56<br>17      | 3            | Black concrete column, white band; 16. | Synchronized with front.                              |
| 7288<br>A 6204                                  | Inishsirr Island, NW.                 | 55° 07.4' N<br>8° 20.8' W | <b>Fl.W.</b><br>period 3.7s<br>fl. 0.7s, ec. 3s  | 65<br>20      | 4            | White square concrete tower; 13.       | Visible 083°-263°.                                    |
| 7288.4<br>A 6204.2                              | -Gola Island Range, front.            | 55° 05.1' N<br>8° 21.0' W | <b>Oc.W.</b><br>period 3s<br>lt. 2s, ec. 1s  | 29<br>9       | 2            | White concrete beacon, black band; 20. |   |
| 7288.8<br>A 6204.21                             | --Rear, 86 meters 171°14' from front. | 55° 05.1' N<br>8° 21.0' W | <b>Oc.W.</b><br>period 3s  | 43<br>13      | 2            | Black concrete beacon, white band; 16. | Synchronized with front.                              |
| 7289<br>A 6204.4                                | -Bo Island.                           | 55° 04.8' N<br>8° 20.1' W | <b>Fl.G.</b><br>period 3s<br>fl. 0.3s, ec. 2.7s  | 10<br>3       |              | Green concrete beacon; 23.             |   |
| 7292<br>A 6206                                  | Rinnalea Point.                       | 55° 02.6' N<br>8° 23.6' W | <b>Fl.W.</b><br>period 7.5s<br>fl. 0.3s, ec. 7.2s  | 62<br>19      | 9            | Square tower; 7.                       | Visible 132°-167°.<br>F.W.light 0.6 miles SW.         |
| 7296<br>A 6208                                  | <b>Aranmore.</b>                      | 55° 00.8' N<br>8° 33.5' W | <b>Fl.(2)W.</b><br>period 20s<br>fl. 0.2s, ec. 4.3s<br>fl. 0.2s, ec. 15.3s   | 233<br>71     | 18           | White tower; 75.                       | Visible 007°-234°.<br><b>AIS</b> (MMSI No 992501205). |
|   |                                       |                           | <b>Fl.R.</b><br>period 3s<br>fl. 0.7s, ec. 2.3s  | 200<br>61     | 13           |  | Visible 203°-234°.                                    |
| 7297<br>A 6214.9                                | -Cloghcor Range, front.               | 54° 58.5' N<br>8° 29.7' W | <b>Iso.W.</b><br>period 8s   | 46<br>14      | 2            | White concrete beacon, black band; 30. |   |



| (1)<br>No.                    | (2)<br>Name and Location               | (3)<br>Position           | (4)<br>Characteristic                               | (5)<br>Height | (6)<br>Range                     | (7)<br>Structure                                 | (8)<br>Remarks                                    |
|-------------------------------|--|---------------------------|---|---------------|----------------------------------|--|---|
| <b>IRELAND-WEST COAST</b>     |  |                           |   |               |                                  |  |   |
| 7297.1<br>A 6214.91           | --Rear, 111 meters 048°30' from front. | 54° 58.5' N<br>8° 29.6' W | <b>Iso.W.</b><br>period 8s                          | 56<br>17      | 2                                | Black concrete beacon, white band; 10.           | Synchronized with front.                          |
| 7297.5<br>A 6214.95           | -Aphort Range, front.                  | 54° 58.3' N<br>8° 31.3' W | <b>Oc.W.</b><br>period 4s                           | 33<br>10      | 1                                | Concrete beacon; 23.                             |   |
| 7297.51<br>A 6214.96          | --Rear, 346 meters 308°25' from front. | 54° 58.5' N<br>8° 31.6' W | <b>Oc.W.</b><br>period 4s                           | 39<br>12      | 1                                | Black concrete beacon, white band; 23.           |   |
| NORTH SOUND OF ARAN ISLAND:   |  |                           |   |               |                                  |  |   |
| 7298<br>A 6211.2              | -Black Rocks.                          | 54° 59.4' N<br>8° 29.6' W | <b>Fl.R.</b><br>period 3s                           | 10<br>3       | 1                                | Red concrete column; 13.                         | Base of structure submerged at high water.        |
| SOUTH SOUND OF ARAN ISLAND:   |  |                           |   |               |                                  |  |   |
| 7300<br>A 6213.6              | -Illancrone Island.                    | 54° 56.3' N<br>8° 28.4' W | <b>Fl.W.</b><br>period 5s<br>fl. 0.5s, ec. 4.5s     | 23<br>7       | 6                                | White square concrete tower; 11.                 |   |
| 7304<br>A 6213.8              | -Wyon (Wine) Point.                    | 54° 56.5' N<br>8° 27.3' W | <b>Fl.(2)W.R.G.</b><br>period 10s                   | 25<br>8       | W. 6<br>R. 3                     | White square tower; 16.                          | G. 352°-021°, W.-042°, R.-121°, W.-150°, R.-208°. |
| 7308<br>A 6214                | -Turk Rocks.                           | 54° 57.3' N<br>8° 28.2' W | <b>Fl.G.</b><br>period 5s<br>fl. 0.5s, ec. 4.5s     | 20<br>6       | 2                                | Green square concrete tower; 30.                 |   |
| 7312<br>A 6214.2              | -Aileen Reef.                          | 54° 58.2' N<br>8° 28.8' W | <b>Q.R.</b> (neon)                                  | 20<br>6       | 1                                | Red square concrete beacon, base with steps; 30. |   |
| 7316<br>A 6214.4              | -Stream Rock.                          | 54° 58.7' N<br>8° 28.6' W | <b>Fl.W.</b><br>period 5s<br>fl. 1s, ec. 4s         | 11<br>3       | 2                                | White square brickwork tower; 16.                |   |
| RUTLAND ISLAND SOUTH CHANNEL: |  |                           |   |               |                                  |  |   |
| 7320<br>A 6214.6              | -Corren's Rock.                        | 54° 58.1' N<br>8° 26.7' W | <b>Fl.R.</b><br>period 3s<br>fl. 1s, ec. 2s         | 12<br>4       | 2                                | Red square concrete tower; 19.                   |   |
| 7324<br>A 6214.8              | -Teige's Rocks.                        | 54° 58.6' N<br>8° 26.8' W | <b>Fl.W.</b><br>period 3s<br>fl. 0.3s, ec. 2.7s     | 12<br>4       | 2                                | White round concrete tower, square base; 16.     |   |
| 7328<br>A 6215                | Dawros Head.                           | 54° 49.6' N<br>8° 33.6' W | <b>L.Fl.W.</b><br>period 10s<br>fl. 2s, ec. 8s      | 128<br>39     | 4                                | White square column; 10.                         |   |
| 7332<br>A 6216                | Rathlin O'Birne Island.                | 54° 39.9' N<br>8° 49.9' W | <b>Fl.W.R.</b><br>period 15s<br>fl. 0.3s, ec. 14.7s | 116<br>35     | W. 12<br>R. 10                   | White tower; 66.                                 | R. 195°-307°, W.-195°. AIS (MMSI No 992501203).   |
| RACON                         |  | <b>O(— — —)</b>           |   |               | 13                               | Azimuth coverage 284°-203°. (3 & 10cm).          |   |
| 7336<br>A 6222                | St. John's Point, Donegal Bay.         | 54° 34.1' N<br>8° 27.6' W | <b>Fl.W.</b><br>period 6s<br>fl. 1.5s, ec. 4.5s     | 98<br>30      | 14                               | White tower; 46.                                 | AIS (MMSI No 992501197).                          |
| KILLEYBEGS:                   |  |                           |   |               |                                  |  |   |
| 7340<br>A 6224                | -Rotten Island.                        | 54° 36.9' N<br>8° 26.4' W | <b>Fl.W.R.</b><br>period 4s<br>fl. 1s, ec. 3s       | 66<br>20      | W. 15<br>R. 11                   | White tower; 47.                                 | W. 255°-008°, R.-039°, W.-208°.                   |
| 7352<br>A 6228                | -Black Rock jetty.                     | 54° 38.3' N<br>8° 26.5' W | <b>2 F.R.</b> (vert.)                               | 23<br>7       | Gray metal post, white base; 10. |  |   |

| (1)<br>No.                | (2)<br>Name and Location                                  | (3)<br>Position            | (4)<br>Characteristic  | (5)<br>Height | (6)<br>Range   | (7)<br>Structure                 | (8)<br>Remarks                                  |
|---------------------------|---|----------------------------|--|---------------|----------------|----------------------------------|---|
| <b>IRELAND-WEST COAST</b> |   |                            |  |               |                |                                  |   |
| SLIGO HARBOR:             |   |                            |  |               |                |                                  |   |
| 7360<br>A 6232            | -Blackrock.   | 54° 18.4' N<br>8° 37.0' W  | <b>Fl.W.R.</b><br>period 5s<br>fl. 0.3s, ec. 4.7s  | 78<br>24      | W. 10<br>R. 8  | White tower, black band; 83.     | W. 130°-107°, R.-130°. AIS (MMSI No 992501195). |
| 7362<br>A 6257            | <b>Sligo Airport, AVIATION LIGHT.</b>                     | 54° 16.5' N<br>8° 36.0' W  | <b>Al.Fl.W.G.</b><br>period 2.5s   | 39<br>12      | 23             | Control tower; 20.               | Occasional.                                     |
| NEEDLES CHANNEL:          |   |                            |  |               |                |                                  |   |
| 7364<br>A 6236            | -Lower Rosses, N. of point.                               | 54° 19.7' N<br>8° 34.4' W  | <b>Fl.(2)W.R.G.</b><br>period 10s<br>fl. 1s, ec. 1s<br>fl. 1s, ec. 7s                            | 25<br>8       | 10             | White hut, piles.                | G. 061°-066°, W.-070°, R.-075°. Shown 24 hours. |
| 7368<br>A 6244            | -Metal Man Rock Range, front.                             | 54° 18.2' N<br>8° 34.5' W  | <b>Fl.(3)W.</b><br>period 6.1s<br>fl. 0.4s, ec. 1s<br>fl. 0.4s, ec. 1s<br>fl. 0.4s, ec. 2.9s     | 10<br>3       | 7              | Statue on tower; 16.             |   |
| 7372<br>A 6244.1          | --Rear, near NW. point, 365 meters 125° from front.       | 54° 18.1' N<br>8° 34.2' W  | <b>Fl.(3)W.</b><br>period 6.1s<br>fl. 0.4s, ec. 1s<br>fl. 0.4s, ec. 1s<br>fl. 0.4s, ec. 2.9s     | 43<br>13      | 7              | Tower; 39.                       | Synchronized with front.                        |
| 7376<br>A 6260            | Inishcrone, Killala Bay.                                  | 54° 13.2' N<br>9° 05.8' W  | <b>Fl.W.R.G.</b><br>period 1.5s  | 25<br>8       | 2              | Concrete column; 16.             | W. 098°-116°, G.-136°, R.-187°.                 |
| 7378<br>A 6265            | Killala Bay Bone Rock, NE. end.                           | 54° 15.8' N<br>9° 11.2' W  | <b>Q.W.</b>  | 23<br>7       |                | N. CARDINAL BY, pillar, topmark. |   |
| 7380<br>A 6266            | <b>Broadhaven,</b> Gubacashel Point, W. side of entrance. | 54° 16.0' N<br>9° 53.3' W  | <b>Iso.W.R.</b><br>period 4s   | 87<br>27      | W. 17<br>R. 12 | White tower; 50.                 | R. 110°-133°, W.-355°, R.-021°.                 |
| 7384<br>A 6268            | <b>Eagle Island.</b>                                      | 54° 17.0' N<br>10° 05.5' W | <b>Fl.(3)W.</b><br>period 20s<br>fl. 0.8s, ec. 1.2s<br>fl. 0.8s, ec. 1.2s<br>fl. 0.8s, ec. 15.2s | 220<br>67     | 18             | White tower; 36.                 | AIS (MMSI No 992501189).                        |
| 7388<br>A 6270            | <b>Blackrock.</b>   | 54° 04.1' N<br>10° 19.2' W | <b>Fl.W.R.</b><br>period 12s<br>fl. 0.3s, ec. 11.7s  | 282<br>86     | W. 19<br>R. 14 | White tower; 49.                 | W. 276°-212°, R.-276°. AIS (MMSI No 992501183). |
| 7392<br>A 6272            | Blacksod Point.   | 54° 06.0' N<br>10° 03.6' W | <b>Fl.(2)W.R.</b><br>period 7.5s<br>fl. 0.5s, ec. 1s<br>fl. 0.5s, ec. 5.5s                       | 42<br>13      | W. 12<br>R. 9  | White tower, dwelling; 39.       | R. 189°-210°, W.-018°.                          |
| 7396<br>A 6272.5          | Achill Island, Ridge Point.                               | 54° 01.8' N<br>9° 58.5' W  | <b>Fl.W.</b><br>period 5s<br>fl. 0.5s, ec. 4.5s  | 69<br>21      | 5              | Mast; 16.                        |   |
| 7400<br>A 6273.3          | -Saulia, pier.  | 53° 57.1' N<br>9° 55.5' W  | <b>Fl.G.</b><br>period 3s<br>fl. 0.5s, ec. 2.5s  | 39<br>12      |                | Green concrete column; 10.       |   |
| 7402<br>A 6273.8          | -Beacon   | 53° 52.1' N<br>9° 56.5' W  | <b>Fl.R.</b><br>period 2s<br>fl. 0.2s, ec. 1.8s  | 16<br>5       |                | Red square concrete tower.       |   |
| 7404<br>A 6274            | -Carrigin-a-tShrutha.                                     | 53° 52.3' N<br>9° 56.7' W  | <b>Q.(2)R.</b><br>period 5s  |               |                | Red concrete beacon on rock; 16. |   |
| 7408<br>A 6279            | Roonagh Quay Range, front.                                | 53° 45.8' N<br>9° 54.2' W  | <b>Iso.Bu.</b><br>period 10s   | 29<br>9       |                |                                  |   |
| 7412<br>A 6279.1          | --Rear, 54 meters 144° from front.                        | 53° 45.7' N<br>9° 54.2' W  | <b>Iso.Bu.</b><br>period 10s   | 49<br>15      |                |                                  | Synchronized with front.                        |

| (1)<br>No.                | (2)<br>Name and Location             | (3)<br>Position            | (4)<br>Characteristic   | (5)<br>Height | (6)<br>Range           | (7)<br>Structure                                       | (8)<br>Remarks   |
|---------------------------|--------------------------------------|----------------------------|---|---------------|------------------------|--|--|
| <b>IRELAND-WEST COAST</b> |                                      |                            |   |               |                        |  |  |
| 7416<br>A 6276            | <b>-Achillbeg Island.</b>            | 53° 51.5' N<br>9° 56.8' W  | <b>Fl.W.R.</b><br>period 5s<br>fl. 1s, ec. 4s   | 184<br>56     | W. 14<br>R. 16<br>R. 9 | White round tower, square building; 30.                | R. 262°-281°, W.-342°, R.-060°, W.-092°, R.(intensified)-099°, W.-118°. Obscured by Clare Island and the Bills. AIS (MMSI No 992501181). |
| 7420<br>A 6275.3          | -Purteen, pier, head.                | 53° 57.9' N<br>10° 06.0' W | <b>Q.R.</b>   |               |                        | Red concrete pillar; 10.                               |  |
| 7424<br>A 6277.5          | Clare Island, E. pier.               | 53° 48.0' N<br>9° 57.0' W  | <b>Fl.R.</b><br>period 3s   | 15<br>5       | 3                      |  |  |
| 7428<br>A 6278            | -Inishgort, island, S. point.        | 53° 49.6' N<br>9° 40.2' W  | <b>L.Fl.W.</b><br>period 10s<br>fl. 2s, ec. 8s  | 36<br>11      | 10                     | White tower; 26.                                       | <b>AIS</b> (MMSI No 992501179).  |
| 7432<br>A 6280            | Inishbofin, Lyon Head.               | 53° 36.7' N<br>10° 09.5' W | <b>Fl.W.R.</b><br>period 7.5s<br>fl. 0.7s, ec. 6.8s   | 44<br>13      | W. 7<br>R. 4           | White post, concrete structure; 16.                    | W. 036°-058°, R.-184°, W.-325°, R.-036°.   |
| 7436<br>A 6282            | Gun Rock, off S. side of Inishbofin. | 53° 36.6' N<br>10° 13.2' W | <b>Fl.(2)W.</b><br>period 6s<br>fl. 0.6s, ec. 1.4s<br>fl. 0.6s, ec. 3.4s                            | 27<br>8       | 4                      | White column, white hut; 15.                           | Visible 296°-253° except where obscured by islands.  |
| 7440<br>A 6284            | Cleggan Point.                       | 53° 34.5' N<br>10° 07.7' W | <b>Fl.(3)W.R.G.</b><br>period 15s<br>fl. 0.5s, ec. 3.5s<br>fl. 0.5s, ec. 3.5s<br>fl. 0.5s, ec. 6.5s | 66<br>20      | W. 6<br>R. 3<br>G. 3   | White column, white hut; 16.                           | G. 345°-091°, W.-124°, R.-221°.  |
| 7444<br>A 6288            | <b>Slyne Head.</b>                   | 53° 24.0' N<br>10° 14.0' W | <b>Fl.(2)W.</b><br>period 15s<br>fl. 0.1s, ec. 2.4s<br>fl. 0.1s, ec. 12.4s                          | 115<br>35     | 19                     | Black tower; 79.                                       |  |
|                           | <b>RACON</b>                         |                            | <b>T(-)</b>   |               | 16                     |  | (3 & 10cm).  |
| 7448<br>A 6290            | Inishnee.                            | 53° 22.8' N<br>9° 54.5' W  | <b>Fl.(2)W.R.G.</b><br>period 10s<br>fl. 0.5s, ec. 1s<br>fl. 0.5s, ec. 8s                           | 30<br>9       | W. 5<br>R. 5<br>G. 5   | White concrete blockhouse; 13.                         | G. 314°-017°, W.-030°, R.-080°, W.-194°.   |
| 7452<br>A 6292            | Croaghakeela Island.                 | 53° 19.4' N<br>9° 58.1' W  | <b>Fl.W.</b><br>period 3.7s<br>fl. 0.7s, ec. 3s   | 22<br>7       | 5                      | White concrete pillar; 14.                             | Visible 034°-045°, 218°-286°, 311°-325°.   |
| <b>GALWAY BAY:</b>        |                                      |                            |   |               |                        |  |  |
| 7456<br>A 6302            | -Kiggaul Bay, head.                  | 53° 14.0' N<br>9° 43.0' W  | <b>Fl.W.R.G.</b><br>period 3s<br>fl. 0.6s, ec. 2.4s   | 15<br>5       | 5                      | White concrete blockhouse, concrete base; 10.          | G. 310°-329°, W.-349°, R.-059°.  |
| 7460<br>A 6304            | -Cashla Bay, W. side of entrance.    | 53° 14.2' N<br>9° 35.2' W  | <b>Fl.(3)W.R.</b><br>period 10s<br>fl. 0.6s, ec. 1s<br>fl. 0.6s, ec. 1s<br>fl. 0.6s, ec. 6.2s       | 25<br>8       | W. 8<br>R. 6           | White metal column, concrete structure; 16.            | W. 216°-000°, R.-069°. Shown 24 hours.   |
| 7462<br>A 6304.5          | -Lion Point, 010°.                   | 53° 15.8' N<br>9° 33.9' W  | <b>Dir.W.R.G.</b><br>period 5s  | 20<br>6       | W. 8<br>R. 6<br>G. 6   | White square concrete tower, black stripe, column; 13. | Iso.G. 005°-008°30', Iso.W.-011°30', Iso.R.-015°. Range 3/2M by day.   |
| 7464<br>A 6305            | -Rossaveel pier range, front.        | 53° 16.0' N<br>9° 33.4' W  | <b>Oc.W.</b><br>period 3s<br>lt. 2s, ec. 1s   | 39<br>12      | 3                      | White post, red triangular daymark point up.           |  |
| 7468<br>A 6305.1          | --Rear, 47 meters 116° from front.   | 53° 16.0' N<br>9° 33.0' W  | <b>Oc.W.</b><br>period 3s<br>lt. 2s, ec. 1s   | 46<br>14      | 3                      | White post, red triangular daymark point down.         |  |
| 7472<br>A 6296            | <b>--Eeragh Island.</b>              | 53° 08.9' N<br>9° 51.3' W  | <b>Fl.W.</b><br>period 15s<br>fl. 0.2s, ec. 14.8s   | 115<br>35     | 18                     | White tower, two black bands; 101.                     | Visible 297°-262°. AIS (MMSI No 992501172).  |

| (1)<br>No.         | (2)<br>Name and Location                  | (3)<br>Position           | (4)<br>Characteristic   | (5)<br>Height | (6)<br>Range   | (7)<br>Structure                         | (8)<br>Remarks   |
|--------------------|---|---------------------------|---|---------------|----------------|--|--|
| IRELAND-WEST COAST |   |                           |   |               |                |  |  |
| -Aran Islands:     |   |                           |   |               |                |  |  |
| 7480<br>A 6298     | --Straw Island.                           | 53° 07.1' N<br>9° 37.8' W | Fl.(2)W.<br>period 5s<br>fl. 0.4s, ec. 1.3s<br>fl. 0.4s, ec. 2.9s   | 37<br>11      | 12             | White tower; 36.                         |  |
| 7484<br>A 6299     | --Killeany Bay Range, front.              | 53° 06.3' N<br>9° 39.7' W | Oc.W.<br>period 5s  | 21<br>6       | 3              | White column, white square base; 13.     | Visible 142°-197°.   |
| 7488<br>A 6299.1   | ---Rear, 43 meters 192° from front.       | 53° 06.3' N<br>9° 39.7' W | Oc.W.<br>period 5s  | 26<br>8       | 2              | White column, white square base; 13.     | Visible 142°-197°.   |
| 7492<br>A 6300     | -Kilronan, pier, head.                    | 53° 07.1' N<br>9° 40.0' W | 2 F.R.  | 16<br>5       | 3              | Beacon.                                  | Visible 167°-347°. 2 meters apart.   |
| 7494<br>A 6301     | -Kilkieran, Pier.                         | 53° 19.3' N<br>9° 43.8' W | Fl.R.<br>period 3s  | 13<br>4       | 4              | Red metal pole.                          |  |
| 7496<br>A 6334     | --Inisheer.                               | 53° 02.8' N<br>9° 31.5' W | Iso.W.R.<br>period 12s  | 112<br>34     | W. 16<br>R. 11 | White tower, black band; 112.            | W. (visible beyond 7M) 225°-231°, W.-245°, R.-269°, W.-115°. AIS (MMSI No 992501165).              |
| --RACON            |   | K(— • —)                  |   |               | 13             |  | Azimuth coverage 216°-144°. (3 & 10cm).  |
| 7500<br>A 6332     | -Black Head.                              | 53° 09.2' N<br>9° 15.8' W | Fl.W.R.<br>period 5s<br>fl. 1s, ec. 4s  | 67<br>20      | W. 11<br>R. 8  | White square concrete tower; 26.         | W. 045°-268°, R.-276°. AIS (MMSI No 992501168).  |
| 7504<br>A 6308     | -Spiddle, pier, E. head.                  | 53° 14.4' N<br>9° 18.5' W | Fl.W.R.G.<br>period 3.5s  | 35<br>11      | 8              | Yellow metal column; 10.                 | G. 265°-308°, W.-024°, R.-066°.  |
| 7508<br>A 6317     | -Galway Harbor, Leverets.                 | 53° 15.3' N<br>9° 01.9' W | Q.W.R.G.  | 31<br>9       | 10             | Black round concrete tower, white bands. | G. 015°-058°, W.-065°, R.-103°, G.-143°30', W.-146°30', R.-015°.                                   |
| 7512<br>A 6318     | --Rinmore.                                | 53° 16.1' N<br>9° 02.0' W | Iso.W.R.G.<br>period 4s   | 24<br>7       | 5              | White square tower.                      | G. 359°-008°, W.-018°, R.-027°.  |
| 7516<br>A 6320     | --Approach channel, port entry.           | 53° 16.1' N<br>9° 02.8' W | Dir.W.R.G.  | 23<br>7       | 3              |  | F.G. 322°15'-323°45', Al.G.W.-324°45', F.W.-325°15', Al.R.W.-326°15', F.R.-331°15', Fl.R.-332°15'. |
| 7524<br>A 6322     | -Nimmo, pier, head.                       | 53° 16.0' N<br>9° 02.8' W | Fl.Y.<br>period 2s  | 24<br>7       | 7              | Mast; 20.                                |  |
| 7528<br>A 6338     | Loop Head.                                | 52° 33.7' N<br>9° 55.9' W | Fl.(4)W.<br>period 20s<br>fl. 0.1s, ec. 2.4s<br>fl. 0.1s, ec. 2.4s<br>fl. 0.1s, ec. 2.4s<br>fl. 0.1s, ec. 12.4s | 277<br>84     | 23             | White tower; 75.                         | Visible 280°-218°.   |
| 7530               | Ballybunnion Buoy.                        | 52° 32.5' N<br>9° 46.9' W | V.Q.W.  |               |                | N. CARDINAL BY, pillar.                  |  |
| RACON              |   | M(— —)                    |   |               | 6              |  | (3 & 10cm).  |
| RIVER SHANNON:     |   |                           |   |               |                |  |  |
| 7533<br>A 6340.5   | -Corlis Pt. Range, front.                 | 52° 37.1' N<br>9° 36.4' W | Oc.W.<br>period 5s<br>lt. 4s, ec. 1s  | 30<br>9       | 10             | Concrete hut.                            | Shown 24 hours.  |
| 7534<br>A 6340.51  | --Querrin Quay, rear, 046°42' from front. | 52° 37.7' N<br>9° 35.3' W | Oc.W.<br>period 5s  | 92<br>28      | 10             | Framework mast.                          | F.R. on top of mast.   |
| 7536<br>A 6342     | -Scattery Island.                         | 52° 36.3' N<br>9° 31.1' W | Fl.(2)W.<br>period 8s<br>fl. 0.5s, ec. 1s<br>fl. 0.5s, ec. 6s   | 50<br>15      | 10             | White tower; 39.                         | Visible 208°-092°.   |
| 7540<br>A 6343     | -Tarbert Island.                          | 52° 35.5' N<br>9° 21.8' W | Q.W.R.  | 58<br>18      | W. 14<br>R. 10 | White round tower; 85.                   | W. 069°-277°, R.-287°, W.-339°.  |

| (1)<br>No.                | (2)<br>Name and Location                    | (3)<br>Position            | (4)<br>Characteristic   | (5)<br>Height | (6)<br>Range            | (7)<br>Structure   | (8)<br>Remarks   |
|---------------------------|---|----------------------------|---|---------------|-------------------------|--|--|
| <b>IRELAND-WEST COAST</b> |   |                            |   |               |                         |  |  |
| 7544<br>A 6344.6          | -Tarbert Range, front.                      | 52° 34.4' N<br>9° 18.8' W  | <b>Iso.W.</b><br>period 3s  | 42<br>13      | 3                       | White metal framework tower,<br>triangular daymark point up. | Visible 123°12'-133°12'.   |
| 7548<br>A 6344.61         | --Rear, 400 meters 128°15'<br>from front.   | 52° 34.2' N<br>9° 18.5' W  | <b>Iso.W.</b><br>period 5s  | 59<br>18      | 3                       | White beacon, green stripe.                                  |  |
| 7552<br>A 6345            | -Garraunbaun Point.                         | 52° 35.6' N<br>9° 13.9' W  | <b>Fl.(3)W.R.</b><br>period 10s<br>fl. 0.3s, ec. 1s<br>fl. 0.3s, ec. 1s<br>fl. 0.3s, ec. 7.1s | 52<br>16      | W. 8<br>R. 5            | White square column; 10.                                     | R. 052°-072°, W.-242°, R.-<br>262°.  |
| 7556<br>A 6346            | -Rinealon Point.                            | 52° 37.1' N<br>9° 09.8' W  | <b>Fl.W.</b><br>period 2.5s<br>fl. 0.2s, ec. 2.3s   | 13<br>4       | 7                       | White structure.   | Visible 234°-088°.   |
| 7560<br>A 6347.15         | -Foynes Harbor, W. channel<br>Range, front. | 52° 36.9' N<br>9° 06.5' W  | <b>Oc.W.</b><br>period 4s<br>lt. 3s, ec. 1s   | 112<br>34     | 12                      | Gray metal pole; 108   |  |
| 7564<br>A 6347.16         | --E. jetty, rear, 107°54' from<br>front.    | 52° 36.8' N<br>9° 06.1' W  | <b>Oc.W.</b><br>period 4s<br>lt. 3s, ec. 1s   | 112<br>34     | 12                      | Gray metal pole; 125.  |  |
| 7568<br>A 6347.41         | -Colleen Point.                             | 52° 36.9' N<br>9° 06.9' W  | <b>I.Q.G.</b>   | 8<br>2        | 2                       | Green metal pile; 23.  |  |
| 7576<br>A 6348            | -Beeves Rocks.                              | 52° 39.0' N<br>9° 01.3' W  | <b>Fl.W.R.</b><br>period 5s<br>fl. 1s, ec. 4s   | 40<br>12      | W. 12<br>R. 9           | Dark stone tower; 60.  | W. 064°30'-091°, R.-238°,<br>W.-265°, W.<br>(unintensified) 265°-<br>064°30'.                                  |
| 7580<br>A 6350            | -Shannon AVIATION LIGHT.                    | 52° 41.7' N<br>8° 55.7' W  | <b>Al.Fl.W.G.</b><br>period 5s  | 130<br>40     |                         | Control tower.   |  |
| <b>TRALEE BAY:</b>        |   |                            |   |               |                         |  |  |
| 7584<br>A 6392            | -Little Samphire Island.                    | 52° 16.3' N<br>9° 52.9' W  | <b>Fl.W.R.G.</b><br>period 5s<br>fl. 1s, ec. 4s   | 56<br>17      | W. 14<br>R. 11<br>G. 11 | Round stone tower.   | R. 262°-275°, R. 280°-090°,<br>G.-140°, W.-152°, R.-<br>172°.  |
| 7588<br>A 6394            | -Great Samphire Island.                     | 52° 16.1' N<br>9° 52.2' W  | <b>Q.R.</b>   | 49<br>15      | 3                       | Red pole.  | Visible 242°-097°.   |
| 7592<br>A 6396            | -Fenit, pier, head.                         | 52° 16.2' N<br>9° 51.8' W  | <b>2 F.R.</b> (vert.)   | 39<br>12      | 3                       | Mast; 23.  | Visible 148°-058°.   |
| 7596<br>A 6406            | Brandon pier, head.                         | 52° 16.0' N<br>10° 09.6' W | <b>2 F.G.</b> (vert.)   | 15<br>5       | 4                       | Column; 10.  |  |
| 7600<br>A 6408            | <b>Inishtearaght Island.</b>                | 52° 04.5' N<br>10° 39.7' W | <b>Fl.(2)W.</b><br>period 20s<br>fl. 0.1s, ec. 4.9s<br>fl. 0.1s, ec. 14.9s                    | 275<br>84     | 18                      | White tower; 56.   | Visible 318°-221°.<br><b>AIS</b> (MMSI No 992501143).  |
| <b>RACON</b>              |   | <b>O(— — —)</b>            |   |               | 18                      |  | Azimuth coverage 313°-221°.<br>(3 & 10cm).   |
| 7604<br>A 6410            | Dingle Harbor.                              | 52° 07.3' N<br>10° 15.5' W | <b>Fl.W.R.G.</b><br>period 3s   | 64<br>20      | 6                       | White metal tower; 23.                                       | G. 310°-328°, W.-000°, R.-<br>024°.  |
| <b>VALENTIA HARBOUR:</b>  |   |                            |   |               |                         |  |  |
| 7612<br>A 6416            | <b>-Cromwell (Fort) Point.</b>              | 51° 56.0' N<br>10° 19.3' W | <b>Fl.W.R.</b><br>period 2s<br>fl. 0.5s, ec. 1.5s   | 54<br>16      | W. 17<br>R. 10          | White tower; 48.   | W. 104°-304°, R.-351°.<br>F.R. lights mark 4 radio masts<br>1.25 miles WSW.<br><b>AIS</b> (MMSI No 992501141). |
| 7616<br>A 6417            | -Valentia Harbour.                          | 51° 55.5' N<br>10° 18.4' W | <b>Dir.Oc.W.R.G.</b><br>period 4s<br>lt. 3s, ec. 1s   | 82<br>25      | W. 11<br>R. 8<br>G. 8   | White conical tower, red stripe.                             | G. 136°-140°, W.-142°, R.-<br>146°.<br>Range 3/2M by day.  |
| 7622<br>A 6417.5          | -Harbor Rock.                               | 51° 55.8' N<br>10° 18.9' W | <b>Q.(3)W.</b><br>period 10s  | 15<br>5       | 5                       | E. CARDINAL<br>YBY, mast, topmark.                           | Visible 080°-040°.   |

| (1)<br>No.                | (2)<br>Name and Location                  | (3)<br>Position            | (4)<br>Characteristic   | (5)<br>Height | (6)<br>Range            | (7)<br>Structure                           | (8)<br>Remarks  |
|---------------------------|---|----------------------------|---|---------------|-------------------------|--|---|
| <b>IRELAND-WEST COAST</b> |   |                            |   |               |                         |  |   |
| 7624<br>A 6422            | Skelligs Rock.                            | 51° 46.1' N<br>10° 32.5' W | <b>Fl.(3)W.</b><br>period 15s<br>fl. 0.3s, ec. 2.3s<br>fl. 0.3s, ec. 2.3s<br>fl. 0.3s, ec. 9.5s | 175<br>53     | 12                      | White tower; 39.                           | Visible 262°-115°. Partially obscured within 6 miles 110°-115°. AIS (MMSI No 992501137).              |
| 7628<br>A 6426            | Darrynane Bay Range, front.               | 51° 45.9' N<br>10° 09.2' W | <b>Oc.W.</b><br>period 3s   | 34<br>10      | 4                       | Beacon; 14.                                |   |
| 7632<br>A 6426.1          | -Rear, 034° from front.                   | 51° 46.0' N<br>10° 08.9' W | <b>Oc.W.</b><br>period 3s   | 52<br>16      | 4                       | Beacon; 17.                                |   |
| 7636<br>A 6430            | <b>Bull Rock.</b>                         | 51° 35.5' N<br>10° 18.1' W | <b>Fl.W.</b><br>period 15s<br>fl. 0.8s, ec. 14.2s   | 300<br>91     | 18                      | Square structure; 75.                      | AIS (MMSI No 992501134).  |
|                           | RACON                                     |                            | <b>N(- •)</b>   |               | 16                      |  | (3 & 10cm).   |
| BANTRY HEAD:              |   |                            |   |               |                         |  |   |
| 7640<br>A 6434            | -Bearhaven.                               | 51° 37.1' N<br>9° 55.1' W  | <b>Fl.(2)W.R.</b><br>period 10s<br>fl. 1s, ec. 2s<br>fl. 1s, ec. 6s                             | 203<br>62     | W. 14<br>R. 9           | White round tower; 66.                     | R. 319°-348°, W.-066°, R.-205°. F.R. on radio tower 3.45 miles WNW. AIS (MMSI No 992501131).          |
| 7644<br>A 6436            | --Castletown.                             | 51° 38.8' N<br>9° 54.3' W  | <b>Dir.Oc.W.R.G.</b><br>period 5s<br>lt. 4s, ec. 1s   | 23<br>7       | W. 15<br>R. 12<br>G. 12 | White hut, black stripe; 20.               | G. 019°30'-023°, W.-023°30', R.-027°. AIS (MMSI No 992501125).  |
| 7648<br>A 6438            | --Castletownbere harbor, Perch rock.      | 51° 38.8' N<br>9° 54.5' W  | <b>Fl.G.</b><br>period 5s   |               | 4                       | STARBOARD (A)<br>G, beacon, topmark; 26.   |   |
| 7650<br>A 6438.5          | --Cametringane Spit.                      | 51° 38.9' N<br>9° 54.5' W  | <b>Q.R.</b>   |               |                         | Red square column.                         |   |
| 7652<br>A 6439            | ---Range, front.                          | 51° 39.2' N<br>9° 54.4' W  | <b>Oc.Bu.</b><br>period 6s<br>lt. 4s, ec. 2s  | 13<br>4       | 6                       | White concrete column, red stripe; 10.     | Visible 005°-013°.  |
| 7656<br>A 6439.1          | ---Range, rear 80 meters 008° from front. | 51° 39.2' N<br>9° 54.4' W  | <b>Oc.Bu.</b><br>period 6s<br>lt. 4s, ec. 2s  | 22<br>7       | 6                       | White rectangular daymark, red stripe; 13. | Visible 005°-013°.  |
| 7658<br>A 6440            | -Oilean na gCadrach.                      | 51° 38.4' N<br>9° 53.9' W  | <b>Q.W.</b>   | 10<br>3       | 3                       | Black beacon, yellow base; 16.             |   |
| 7659<br>A 6441            | -Bearhaven, Beal Lough.                   | 51° 39.3' N<br>9° 51.2' W  | <b>Fl.G.</b><br>period 3s   | 16<br>5       | 2                       | STARBOARD (A)<br>G, pillar, topmark; 23.   |   |
| 7660<br>A 6442            | -Roancarrigmore.                          | 51° 39.2' N<br>9° 44.8' W  | <b>Fl.W.R.</b><br>period 5s<br>fl. 1s, ec. 4s   | 43<br>13      | W. 11<br>R. 9           | Steel tower; 23.                           | W. 312°-050°, R.-122°, R.(unintensified)-207°, R. 246°-312°. AIS (MMSI No 992501130).                 |
| 7672<br>A 6445            | ---SW. Dolphin.                           | 51° 41.2' N<br>9° 32.1' W  | <b>Q.Y.</b>   | 33<br>10      | 2                       | Metal mast, dolphin.                       | Horn: 1 bl. ev. 20s.  |
| 7676<br>A 6445.2          | ---NE. Dolphin.                           | 51° 41.3' N<br>9° 31.7' W  | <b>Q.Y.</b>   | 33<br>10      | 2                       | Metal mast, dolphin.                       |   |
| 7678<br>A 6445.7          | ---W. Battery.                            | 51° 40.9' N<br>9° 31.7' W  | <b>Fl.(3)G.</b><br>period 15s   | 10<br>3       | 2                       | STARBOARD (A)<br>G, spar, topmark; 10.     |   |
| 7680<br>A 6432            | <b>-Sheep's (Sheep) Head.</b>             | 51° 32.6' N<br>9° 50.9' W  | <b>Fl.(3)W.R.</b><br>period 15s<br>fl. 1s, ec. 1.5s<br>fl. 1s, ec. 1.5s<br>fl. 1s, ec. 9s       | 272<br>83     | W. 18<br>R. 15          | White building; 23.                        | R. 011°18'-016°36', W.-233°. Partially obscured 212°30'-233°. AIS (MMSI No 992501129).                |
| 7684<br>A 6448            | Mizen Head.                               | 51° 27.0' N<br>9° 49.2' W  | <b>Iso.W.</b><br>period 4s  | 180<br>55     | 12                      | Concrete platform, lantern.                | Visible 313°-133°. AIS (MMSI No 992501127).   |
| 7688<br>A 6450            | Crookhaven, Rock Island Point.            | 51° 28.6' N<br>9° 42.3' W  | <b>L.Fl.W.R.</b><br>period 8s<br>fl. 2s, ec. 6s   | 67<br>20      | W. 13<br>R. 11          | White tower; 46.                           | Outside harbor, W. 131°-281°, R.-340°. Inside harbor, R. 281°-348°, W.-111°. AIS (MMSI No 992501124). |

# Section 7

## North Coast of France and Channel Islands

| (1)<br>No.                | (2)<br>Name and Location   | (3)<br>Position           | (4)<br>Characteristic  | (5)<br>Height | (6)<br>Range            | (7)<br>Structure   | (8)<br>Remarks  |
|---------------------------|--|---------------------------|--|---------------|-------------------------|--|---|
| <b>FRANCE-NORTH COAST</b> |  |                           |  |               |                         |  |   |
| 7692<br>A 1836            | Corn-Carhai, Roches de Portsall.                                   | 48° 35.2' N<br>4° 43.9' W | <b>Fl.(3)W.</b><br>period 12s<br>fl. 1s, ec. 1.5s<br>fl. 1s, ec. 1.5s<br>fl. 1s, ec. 6s                                | 62<br>19      | 9                       | White octagonal tower, black top; 66.                            |   |
| 7700<br>A 1838            | Portsall.  | 48° 33.8' N<br>4° 42.2' W | <b>Oc.(4)W.R.G.</b><br>period 12s<br>lt. 1s, ec. 1s<br>lt. 1s, ec. 1s<br>lt. 1s, ec. 1s<br>lt. 5s, ec. 1s              | 30<br>9       | W. 13<br>R. 10<br>G. 10 | White column, red top; 23.                                       | G. 058°-084°, W.-088°, R.-058°.   |
| <b>L'ABERWRACH:</b>       |  |                           |  |               |                         |  |   |
| 7704<br>A 1826            | -Grand Chenal First Range, front, Ile Vrac'h, N. side of entrance. | 48° 36.9' N<br>4° 34.5' W | <b>Q.R.</b>  | 66<br>20      | 7                       | White square tower, orange top, dwelling; 49.                    |   |
| 7708<br>A 1826.1          | --Rear, Lanvaon, 3 km. 100°06' from front.                         | 48° 36.6' N<br>4° 32.1' W | <b>Q.W.</b>  | 180<br>55     | 12                      | White rectangular tower, orange triangular daymark point up; 89. | Intensified 090°-110°. Synchronized with front.   |
| 7712<br>A 1831            | -Leading light.  | 48° 35.9' N<br>4° 33.9' W | <b>Dir.Oc.(2)W.R.G.</b><br>period 6s<br>lt. 1s, ec. 1s<br>lt. 3s, ec. 1s   | 17<br>5       | W. 13<br>R. 11<br>G. 11 | White structure; 13.   | G. 125°42'-127°12', W.-128°42', R.-130°12'.   |
| 7716<br>A 1822            | <b>Ile Vierge.</b>   | 48° 38.3' N<br>4° 34.1' W | <b>Fl.W.</b><br>period 5s<br>fl. 0.3s, ec. 4.7s  | 253<br>77     | 27                      | Gray truncated conical tower; 269.                               | Visible 337°-325°. <b>AIS</b> (MMSI No 992271317).  |
| 7720<br>A 1820            | Pontusval Pointe de Beg-Pol.                                       | 48° 40.6' N<br>4° 20.7' W | <b>Oc.(3)W.R.</b><br>period 12s<br>lt. 1.5s, ec. 1.5s<br>lt. 1.5s, ec. 1.5s<br>lt. 4.5s, ec. 1.5s                      | 52<br>16      | W. 10<br>R. 7           | White square tower, black top, white dwelling; 49.               | W. 096°-056°, R.-096°. 3 Q.Y. (occasional) at base. 9 Q.W. (vert.) on radio tower 2.4M S. |
| 7724<br>A 1818            | Mogueriec Range, front.  | 48° 41.4' N<br>4° 04.5' W | <b>Iso.W.G.</b><br>period 4s   | 30<br>9       | W. 11<br>G. 6           | White tower, green top; 33.                                      | W. 158°-166°, G.-158°.  |
| 7728<br>A 1818.1          | -Rear, 440 meters 162° from front.                                 | 48° 41.1' N<br>4° 04.5' W | <b>Iso.G.</b><br>period 4s   | 72<br>22      | 7                       | White tower, green top; 36.                                      | Visible 142°-182°. Synchronized with front.   |
| 7732<br>A 1816            | <b>Ile de Batz.</b>  | 48° 44.7' N<br>4° 01.6' W | <b>Fl.(4)W.</b><br>period 25s<br>fl. 0.5s, ec. 3.6s<br>fl. 0.5s, ec. 3.6s<br>fl. 0.5s, ec. 3.6s<br>fl. 0.5s, ec. 12.2s | 226<br>69     | 23                      | Gray tower, black lantern; 141.                                  | <b>AIS</b> (MMSI No 992271315).   |
|                           | Auxiliary light.   |                           | <b>F.R.</b>  | 214<br>65     | 7                       |  | Visible 024°-059°.  |
| <b>BAIE DE MORLAIX:</b>   |  |                           |  |               |                         |  |   |
| 7740<br>A 1808            | -Ar Chaden, on Pighet Islet.                                       | 48° 44.0' N<br>3° 58.3' W | <b>Q.(6)+L.Fl.W.R.</b><br>period 15s   | 46<br>14      | W. 8<br>R. 6            | S. CARDINAL<br>YB, tower, topmark; 72.                           | R. 262°-289°30', W.-293°, R.-326°, W.-110°.   |
| 7744<br>A 1810            | -Men-Guen-Bras.  | 48° 43.8' N<br>3° 58.1' W | <b>Q.W.R.G.</b>  | 46<br>14      | W. 9<br>R. 6<br>G. 6    | N. CARDINAL<br>BY, tower, topmark; 65.                           | W. 068°-073°, R.-197°, W.-257°, G.-068°.  |
| 7748<br>A 1812            | -Roscoff, Range, front.  | 48° 43.6' N<br>3° 58.7' W | <b>Oc.(3)G.</b><br>period 12s<br>lt. 1.5s, ec. 1.5s<br>lt. 1.5s, ec. 1.5s<br>lt. 4.5s, ec. 1.5s                        | 22<br>7       | 7                       | White column, green top; 23.                                     | Visible 078°-318°.  |

| (1)<br>No.                | (2)<br>Name and Location   | (3)<br>Position           | (4)<br>Characteristic   | (5)<br>Height | (6)<br>Range          | (7)<br>Structure                            | (8)<br>Remarks   |
|---------------------------|--|---------------------------|---|---------------|-----------------------|---|--|
| <b>FRANCE-NORTH COAST</b> |  |                           |   |               |                       |   |  |
| 7752<br>A 1812.1          | --Rear, 430 meters 209° from front.                                    | 48° 43.3' N<br>3° 58.9' W | <b>Oc.(3)W.</b><br>period 12s<br>lt. 1.5s, ec. 1.5s<br>lt. 1.5s, ec. 1.5s<br>lt. 4.5s, ec. 1.5s           | 79<br>24      | 15                    | Gray square tower, white front; 79.         | Visible 062°-242°. Synchronized with front.  |
| 7756<br>A 1805            | -Bloscon, jetty, head.   | 48° 43.2' N<br>3° 57.7' W | <b>Fl.W.G.</b><br>period 4s<br>fl. 1s, ec. 3s   | 30<br>9       | W. 10<br>G. 7         | White round tower, green top; 20.           | W. 200°-210°, G.-200°. Auxiliary light Fl.W. 2s shown in fog only when vessels are entering. |
| 7758<br>A 1804            | -Le Menk.  | 48° 43.3' N<br>3° 56.7' W | <b>Q.(9)W.R.</b><br>period 15s  | 20<br>6       | W. 6<br>R. 4          | W. CARDINAL YBY, tower, topmark; 36.        | W. 160°-188°, R.-160°.   |
| 7760<br>A 1800.1          | -Ile Louet Range, front in line 176° with La Lande.                    | 48° 40.5' N<br>3° 53.4' W | <b>Oc.(3)W.G.</b><br>period 12s<br>lt. 1.5s, ec. 1.5s<br>lt. 1.5s, ec. 1.5s<br>lt. 4.5s, ec. 1.5s         | 56<br>17      | W. 12<br>G. 8         | White square tower, black top; 39.          | G. 244°-305°, R.-244°.   |
| 7764<br>A 1800            | <b>-La Lande</b> , common rear.  | 48° 38.2' N<br>3° 53.1' W | <b>Fl.W.</b><br>period 5s<br>fl. 0.3s, ec. 4.7s   | 279<br>85     | 23                    | White square tower, black top; 62.          |  |
| 7768<br>A 1799.9          | -Ile Noire, E. side of entrance, front, in line 190°30' with La Lande. | 48° 40.3' N<br>3° 52.5' W | <b>Oc.(2)W.R.G.</b><br>period 6s<br>lt. 3s, ec. 1s<br>lt. 1s, ec. 1s                                      | 49<br>15      | W. 11<br>R. 8<br>G. 8 | White square tower, red lantern; 46.        | G. 051°-135°, R.-211° W.-051°.   |
| 7772<br>A 1796            | -Anse de Primel Range, front.  | 48° 42.4' N<br>3° 49.2' W | <b>Q.R.</b>   | 115<br>35     | 7                     | White pylon, white lantern, red stripe; 23. | Visible 134°-168°.   |
| 7776<br>A 1796.1          | --Rear, 202 meters 152° from front.                                    | 48° 42.4' N<br>3° 49.1' W | <b>Q.R.</b>   | 184<br>56     | 7                     | White rectangular wall, red stripe; 13.     | Synchronized with front.   |
| <b>BAIE DE LANNION:</b>   |  |                           |   |               |                       |   |  |
| 7780<br>A 1792            | -Bec-Lequer.   | 48° 44.3' N<br>3° 32.9' W | <b>Oc.(4)W.R.G.</b><br>period 12s<br>lt. 1s, ec. 1s<br>lt. 1s, ec. 1s<br>lt. 1s, ec. 1s<br>lt. 5s, ec. 1s | 197<br>60     | W. 12<br>R. 9<br>G. 9 | West face of white house, red lantern; 26.  | G. 007°-084°, W.-098°, R.-129°.  |
| 7784<br>A 1794            | -Locquemeau Range, front.  | 48° 43.4' N<br>3° 34.5' W | <b>Q.R.</b>   | 69<br>21      | 7                     | White pylon, red top; 62.                   | Visible 068°-228°.   |
| 7788<br>A 1794.1          | --Rear, 484 meters 121° from front.                                    | 48° 43.3' N<br>3° 34.1' W | <b>Q.R.</b>   | 128<br>39     | 7                     | White gabled building, red lantern; 20.     | Visible 016°-232°. Synchronized with front.  |
| 7790<br>A 1791            | Pointe de Lan Kerellec.  | 48° 46.7' N<br>3° 35.0' W | <b>Iso.W.R.G.</b><br>period 4s  | 49<br>15      | W. 8<br>R. 5<br>G. 5  | Gray round tower; 13.                       | G. 058°-064°, W.-069°, R.-130°.  |
| 7792<br>A 1790            | Les Triagoz.   | 48° 52.3' N<br>3° 38.8' W | <b>Fl.(2)W.R.</b><br>period 6s<br>fl. 1s, ec. 1s<br>fl. 1s, ec. 3s  | 102<br>31     | W. 14<br>R. 11        | Gray square tower, red lantern; 98.         | W. 010°-339°, R.-010°. Reserve light range 10/7M.  |
| 7796<br>A 1786            | <b>Les Sept Iles.</b>  | 48° 52.7' N<br>3° 29.4' W | <b>Fl.(3)W.</b><br>period 20s<br>fl. 0.2s, ec. 4s<br>fl. 0.2s, ec. 4s<br>fl. 0.2s, ec. 11.4s              | 194<br>59     | 23                    | Gray tower, dwelling; 66.                   | <b>AIS</b> (MMSI No 992271326).  |
| 7800<br>A 1784            | Mean Ruz.  | 48° 50.3' N<br>3° 29.0' W | <b>Oc.W.R.</b><br>period 4s<br>lt. 3s, ec. 1s   | 85<br>26      | W. 12<br>R. 9         | Pink square tower; 49.                      | W. 226°-242°, R.-226°.   |
| <b>PERROS-GUIREC:</b>     |  |                           |   |               |                       |   |  |
| 7804<br>A 1782            | -Mole Ouest.   | 48° 48.2' N<br>3° 26.6' W | <b>Fl.(2)R.</b><br>period 6s<br>fl. 1s, ec. 1s<br>fl. 1s, ec. 3s  | 12<br>4       | 6                     | White pile, red top; 13.                    |  |
| 7808<br>A 1774            | -Passe de l'Est Range, front.  | 48° 47.8' N<br>3° 26.7' W | <b>Q.W.</b>   | 92<br>28      | 14                    | White house; 23.                            | Intensified 214°30'-234°30'.   |



| (1)<br>No.                | (2)<br>Name and Location                                    | (3)<br>Position           | (4)<br>Characteristic   | (5)<br>Height | (6)<br>Range            | (7)<br>Structure   | (8)<br>Remarks  |
|---------------------------|---|---------------------------|---|---------------|-------------------------|--|---|
| <b>FRANCE-NORTH COAST</b> |   |                           |   |               |                         |  |   |
| 7812<br>A 1774.1          | -- <b>Kerprigent</b> , rear, 2.9 km.<br>224°48' from front. | 48° 46.8' N<br>3° 28.2' W | <b>Q.W.</b>   | 259<br>79     | 21                      | White tower; 46.   | Intensified 221°-228°. Synchronized with front.                   |
| 7816<br>A 1780            | -Jetee Est (Linkin), head.                                  | 48° 48.3' N<br>3° 26.3' W | <b>Fl.(2)G.</b><br>period 6s<br>fl. 1s, ec. 1s<br>fl. 1s, ec. 3s  | 13<br>4       | 6                       | White tower, green top; 13.  |   |
| 7820<br>A 1770            | -Passe del'Ouest Kerjean.                                   | 48° 47.8' N<br>3° 23.4' W | <b>Dir.Oc.(2+1)W.R.G.</b><br>period 12s<br>lt. 4s, ec. 1s<br>lt. 4s, ec. 1s<br>lt. 1s, ec. 1s             | 256<br>78     | W. 10<br>R. 8<br>G. 8   | White tower, black top; 52.  | G. 133°42'-143°12', W.-144°48', R.-154°18'.                       |
| 7824<br>A 1768            | Port Blanc, on Tourelle du Voleur.                          | 48° 50.2' N<br>3° 18.5' W | <b>Fl.W.R.G.</b><br>period 4s<br>fl. 1s, ec. 3s   | 56<br>17      | W. 14<br>R. 11<br>G. 11 | White tower; 39.   | G. 140°-148°, W.-152°, R.-160°.                                   |
| RIVIERE DE TREGUIER:      |   |                           |   |               |                         |  |   |
| 7832<br>A 1760            | -La Corne.  | 48° 51.3' N<br>3° 10.6' W | <b>Fl.(3)W.R.G.</b><br>period 12s<br>fl. 1s, ec. 1.5s<br>fl. 1s, ec. 1.5s<br>fl. 1s, ec. 6s               | 46<br>14      | W. 8<br>R. 6<br>G. 6    | White tower, red base; 75.   | W. 052°-059°, R.-173°, G.-213°, W.-220°, R.-052°.                 |
| 7836<br>A 1762            | -Grande Passe Range, front,<br>Port de la Chaîne.           | 48° 51.5' N<br>3° 07.9' W | <b>Oc.W.</b><br>period 4s<br>lt. 3s, ec. 1s   | 39<br>12      | 11                      | White house; 16.   | Visible 042°-232°.  |
| 7840<br>A 1762.1          | -- <b>Saint Antonie</b> , rear, 1.4 km.<br>137° from front. | 48° 51.0' N<br>3° 07.1' W | <b>Oc.R.</b><br>period 4s<br>lt. 3s, ec. 1s   | 112<br>34     | 15                      | White and red house; 20.   | Intensified 134°-140°.  |
| 7844<br>A 1738            | <b>Les Heaux-de-Brehat.</b>                                 | 48° 54.5' N<br>3° 05.2' W | <b>Fl.(4)W.R.G.</b><br>period 15s<br>fl. 1s, ec. 1s<br>fl. 1s, ec. 1s<br>fl. 1s, ec. 1s<br>fl. 1s, ec. 8s | 157<br>48     | W. 15<br>R. 11<br>G. 11 | Gray tower; 187.   | R. 227°-247°, W.-270°, G.-302°, W.-227°. AIS (MMSI No 992271320). |
| 7848<br>A 1734            | <b>Roches-Douvres.</b>                                      | 49° 06.3' N<br>2° 48.9' W | <b>Fl.W.</b><br>period 5s<br>fl. 0.1s, ec. 4.9s   | 197<br>60     | 24                      | Pink tower, green top, building; 213.                                  |   |
| PLATEAU DE BARNOUIC:      |   |                           |   |               |                         |  |   |
| 7852<br>A 1730            | -Roche Barnouic, NE. of plateau.                            | 49° 01.5' N<br>2° 48.5' W | <b>V.Q.(3)W.</b><br>period 5s   | 49<br>15      | 7                       | E. CARDINAL<br>BYB, tower, topmark; 62.                                |   |
| 7856<br>A 1726            | La Horaine.   | 48° 53.5' N<br>2° 55.2' W | <b>Fl.(3)W.</b><br>period 12s<br>fl. 1s, ec. 1.5s<br>fl. 1s, ec. 1.5s<br>fl. 1s, ec. 6s                   | 43<br>13      | 7                       | Gray octagonal tower, black hut; 75.                                   |   |
| 7860<br>A 1740            | Ile de Brehat, Le Paon, N. side of island.                  | 48° 52.0' N<br>2° 59.1' W | <b>Oc.W.R.G.</b><br>period 4s   | 72<br>22      | W. 11<br>R. 8<br>G. 8   | White tower; 39.   | W. 033°-078°, G.-181°, W.-196°, R.-307°, W.-316°, R.-348°.        |
| 7864<br>A 1742            | - <b>Rosedo.</b>  | 48° 51.4' N<br>3° 00.3' W | <b>Fl.W.</b><br>period 5s<br>fl. 0.1s, ec. 4.9s   | 95<br>29      | 20                      | White tower; 43.   | Reserve light range 15M.  |
| 7868<br>A 1744            | -Men Joliguet.  | 48° 50.1' N<br>3° 00.2' W | <b>Fl.(2)W.R.G.</b><br>period 6s<br>fl. 1s, ec. 1s<br>fl. 1s, ec. 3s                                      | 20<br>6       | W. 11<br>R. 8<br>G. 8   | Yellow tower, black band, two triangular topmarks points together; 26. | R. 255°-279°, W.-283°, G.-175°.                                   |
| TRIEUX:                   |   |                           |   |               |                         |  |   |
| 7872<br>A 1746            | -Rocher Men Grenn, in Baiede Lanneros.                      | 48° 51.3' N<br>3° 03.9' W | <b>Q.(9)W.</b><br>period 15s  | 22<br>7       | 7                       | W. CARDINAL<br>YBY, tower, topmark; 33.                                |   |
| 7876<br>A 1748            | - <b>La Croix</b> Range, front.                             | 48° 50.3' N<br>3° 03.3' W | <b>Q.W.</b>   | 49<br>15      | 18                      | Two gray towers, white on NE. side, red tops; 75.                      | Intensified 215°-235°.  |

| (1)<br>No.                | (2)<br>Name and Location   | (3)<br>Position           | (4)<br>Characteristic   | (5)<br>Height | (6)<br>Range            | (7)<br>Structure                                 | (8)<br>Remarks   |
|---------------------------|--|---------------------------|---|---------------|-------------------------|--|--|
| <b>FRANCE-NORTH COAST</b> |  |                           |   |               |                         |  |  |
| 7880<br>A 1748.1          | --Bodic, rear, W. bank of river,<br>3.8 km. 224°42' from front.    | 48° 48.8' N<br>3° 05.5' W | <b>Q.W.</b>   | 180<br>55     | <b>22</b>               | Green top, white trapezoidal<br>daymark; 75.     | Intensified 221°-229°.<br>Synchronized with front.   |
| 7884<br>A 1745            | -Chenal du Ferlas, Roche<br>Quinonec.                              | 48° 49.4' N<br>3° 03.7' W | <b>Dir.W.R.G.</b>   | 39<br>12      | W. 10<br>R. 8<br>G. 8   | Gray round tower; 20.                            | Q.G. 254°-257°, Q.W.-<br>257°42', Q.R.-260°42'.  |
| 7888<br>A 1745.4          | --Kermouster, mouth of the<br>Trieux.                              | 48° 49.6' N<br>3° 05.2' W | <b>Dir.W.R.G.</b><br>period 2s<br>fl. 0.4s, ec. 1.6s  | 54<br>16      | W. 10<br>R. 8<br>G. 8   | White structure; 7.                              | Fl.G. 267°-270°, Fl.W.-272°,<br>Fl.R.-274°.  |
| 7892<br>A 1752            | -Coatmer Range, front.   | 48° 48.3' N<br>3° 05.8' W | <b>Q.R.G.</b>   | 52<br>16      | 7                       | White gabled structure; 36.                      | R. 200°-250°, G.-053°.   |
| 7896<br>A 1752.1          | --Rear, 660 meters 218°42'<br>from front.                          | 48° 48.0' N<br>3° 06.0' W | <b>Q.R.</b>   | 164<br>50     | 7                       | White gabled structure; 26.                      | Visible 197°-242°.   |
| 7900<br>A 1758            | -Les Perdrix.  | 48° 47.8' N<br>3° 05.8' W | <b>Fl.(2)W.G.</b><br>period 6s<br>fl. 0.2s, ec. 1.4s<br>fl. 0.2s, ec. 4.2s  | 16<br>5       | W. 6<br>G. 3            | Green tower; 36.                                 | G. 165°-197°, W.-202°30' G.-<br>040°.  |
| PAIMPOL:                  |  |                           |   |               |                         |  |  |
| 7904<br>A 1722            | -Pointe de Porz-Don.   | 48° 47.5' N<br>3° 01.6' W | <b>Oc.(2)W.R.</b><br>period 6s<br>lt. 3s, ec. 1s<br>lt. 1s, ec. 1s  | 43<br>13      | W. 15<br>R. 11          | White house; 26.                                 | W. 269°-272°, R.-279°.<br><b>AIS</b> (MMSI No 992271327).  |
| 7908<br>A 1724            | -Jetee de Kerno Range, front.                                      | 48° 47.1' N<br>3° 02.5' W | <b>Q.R.</b>   | 16<br>5       | 7                       | Red and white hut; 13.                           |  |
| 7912<br>A 1724.1          | --Rear, 360 meters 262°12'<br>from front.                          | 48° 47.0' N<br>3° 02.8' W | <b>Q.R.</b>   | 46<br>14      | 10                      | White cylindrical structure, red<br>top; 39.     | Intensified 260°12'-264°12'.   |
| 7916<br>A 1720            | -L'Ost-Pic (Lost Pic), on<br>detached rock E. of Mets<br>de Goelo. | 48° 46.8' N<br>2° 56.4' W | <b>Fl.(4)W.R.</b><br>period 15s<br>fl. 1s, ec. 1.5s<br>fl. 1s, ec. 1.5s<br>fl. 1s, ec. 1.5s<br>fl. 1s, ec. 6.5s                               | 66<br>20      | W. 9<br>R. 6            | Two white towers, red tops; 49.                  | W. 105°-116°, R.-221°, W.-<br>253°, R.-291°, W.-329°.  |
| 7920<br>A 1716            | <b>Le Grand Lejon.</b>   | 48° 45.0' N<br>2° 39.9' W | <b>Fl.(5)W.R.</b><br>period 20s<br>fl. 0.1s, ec. 2.7s<br>fl. 0.1s, ec. 2.7s<br>fl. 0.1s, ec. 2.7s<br>fl. 0.1s, ec. 2.7s<br>fl. 0.1s, ec. 8.7s | 56<br>17      | W. 18<br>R. 14          | Red truncated conical tower,<br>white bands; 82. | R. 015°-058°, W.-283°, R.-<br>350°, W.-015°  |
| 7924<br>A 1714            | Ile Harbor Roches de St. Quay.                                     | 48° 40.0' N<br>2° 48.5' W | <b>Fl.W.R.G.</b><br>period 4s   | 52<br>16      | W. 9<br>R. 6<br>G. 6    | White tower, red top, white<br>dwelling; 43.     | R. 011°-133°, G.-270°, R.-<br>306°, G.-358°, W.-011°.  |
| 7926<br>A 1713.55         | <b>Saint-Quay-Portrieux.</b>                                       | 48° 38.8' N<br>2° 49.4' W | <b>Iso.W.R.G.</b><br>period 4s  | 52<br>16      | W. 15<br>R. 11<br>G. 11 | Concrete tower; 39.                              | W. 159°-179°, G.-316°, W.-<br>320°30', R.-159°.<br>Reserve light range 11/8M.<br><b>AIS</b> (MMSI No 992271322). |
| 7928<br>A 1712            | -N. mole, head.  | 48° 38.7' N<br>2° 49.4' W | <b>Fl.G.</b><br>period 2.5s<br>fl. 0.5s, ec. 2s   | 35<br>11      | 2                       | White and green octagonal metal<br>tower; 39.    | Visible 265°-155°.   |
| 7932<br>A 1713            | -S. mole, head.  | 48° 38.7' N<br>2° 49.4' W | <b>Fl.R.</b><br>period 2.5s<br>fl. 0.5s, ec. 2s   | 26<br>8       | 2                       | White mast, red top; 20.                         |  |
| 7936<br>A 1710            | Binic, Penthièvre Mole, head.                                      | 48° 36.1' N<br>2° 49.0' W | <b>Oc.(3)W.</b><br>period 12s<br>lt. 1.5s, ec. 1.5s<br>lt. 1.5s, ec. 1.5s<br>lt. 4.5s, ec. 1.5s   | 39<br>12      | 11                      | White tower, green lantern; 39.                  | Unintensified 020°-110°.   |
| 7940<br>A 1708            | Le Legue, Point a l'Aigle, jetty.                                  | 48° 32.1' N<br>2° 43.0' W | <b>V.Q.G.</b>   | 43<br>13      | 8                       | White tower, green top; 46.                      | Visible 160°-070°.   |
| 7948<br>A 1704            | Dahouet, Petite Muette Tower.                                      | 48° 34.8' N<br>2° 34.3' W | <b>Fl.W.R.G.</b><br>period 4s<br>fl. 1s, ec. 3s   | 33<br>10      | W. 9<br>R. 6<br>G. 6    | Green and white tower; 56.                       | G. 055°-114°, W.-146°, R.-<br>196°, G.-331°.   |

| (1)<br>No.                 | (2)<br>Name and Location                                   | (3)<br>Position           | (4)<br>Characteristic   | (5)<br>Height | (6)<br>Range            | (7)<br>Structure                                    | (8)<br>Remarks   |
|----------------------------|--|---------------------------|---|---------------|-------------------------|---|--|
| <b>FRANCE-NORTH COAST</b>  |  |                           |   |               |                         |   |  |
| 7952<br>A 1703             | Le Rohein.   | 48° 38.8' N<br>2° 37.8' W | <b>Q.(9)W.R.G.</b><br>period 15s  | 43<br>13      | W. 8<br>R. 5<br>G. 5    | W. CARDINAL<br>YBY, tower, topmark; 49.             | R. 072°-105°, W.-180°, G.-<br>193°, W.-237°, G.-282°,<br>W.-301°, G.-330°, W.-<br>072°.  |
| 7954<br>A 1701             | -Erquy, jetty, head.                                       | 48° 38.0' N<br>2° 28.7' W | <b>Fl.(2)W.R.G.</b><br>period 6s  | 36<br>11      | W. 10<br>R. 7<br>G. 7   | White tower, red top; 33.                           | W. 081°-094°, G.-111°, W.-<br>120°, R.-081°.   |
| 7956<br>A 1702             | Inside jetty extremity.                                    | 48° 38.1' N<br>2° 28.4' W | <b>Fl.(3)R.</b><br>period 12s   | 33<br>10      | 3                       | Red and white tower; 33.                            |  |
| 7960<br>A 1698             | <b>Cap Frehel.</b>   | 48° 41.0' N<br>2° 19.1' W | <b>Fl.(2)W.</b><br>period 10s<br>fl. 0.3s, ec. 2.2s<br>fl. 0.3s, ec. 7.2s                                     | 279<br>85     | 29                      | Gray square tower, green<br>lantern; 108.           | Reserve light range 15M.   |
| 7964<br>A 1697             | St. Cast, mole, head.                                      | 48° 38.4' N<br>2° 14.6' W | <b>Iso.W.G.</b><br>period 4s  | 36<br>11      | W. 9<br>G. 6            | Green and white structure; 30.                      | G. 180°-206°, W.-217°, G.-<br>235°, W.-245°, G.-340°,<br>obsc.-180°.   |
| ST. MALO:                  |  |                           |   |               |                         |   |  |
| 7972<br>A 1680             | -Le Buron.   | 48° 39.3' N<br>2° 03.7' W | <b>Fl.(4)G.</b><br>period 15s<br>fl. 1s, ec. 1.5s<br>fl. 1s, ec. 1.5s<br>fl. 1s, ec. 1.5s<br>fl. 1s, ec. 6.5s | 49<br>15      | 7                       | Green tower; 75.                                    |  |
| 7976<br>A 1674             | -Les Courtis.  | 48° 40.5' N<br>2° 05.8' W | <b>Fl.G.</b><br>period 4s<br>fl. 1s, ec. 3s   | 46<br>14      | 7                       | Green tower; 69.                                    |  |
| 7980<br>A 1676             | <b>-Grand Jardin</b> Range, front.                         | 48° 40.2' N<br>2° 05.0' W | <b>Fl.(2)R.</b><br>period 10s<br>fl. 0.3s, ec. 2.2s<br>fl. 0.3s, ec. 7.2s                                     | 79<br>24      | 15                      | Gray truncated conical tower, red<br>top; 125.      | Forms range 129°42' with La<br>Ballue for Chenal de la<br>Petite Porte.<br>Forms range 089°06' with<br>Rochebonne for Chenal<br>de la Grande Porte.<br><b>AIS</b> (MMSI No 992271314). |
| 7984<br>A 1676.1           | <b>--Rochebonne</b> , rear 7.7 km.<br>089° from front.     | 48° 40.3' N<br>1° 58.7' W | <b>F.R.</b>   | 131<br>40     | 24                      | Gray square tower, west face<br>white, red top; 65. | Intensified 088°12'-089°42'.<br>Rear range 089°06' with<br>7980.<br><b>AIS</b> (MMSI No 992271311).  |
| 7988<br>A 1675             | -La Plate.   | 48° 40.8' N<br>2° 01.9' W | <b>Q.W.R.G.</b>   | 36<br>11      | W. 10<br>R. 7<br>G. 7   | N. CARDINAL<br>BY, tower, topmark; 72.              | W. 140°-203°, R.-210°, W.-<br>225°, G.-140°.   |
| 7996<br>A 1695             | -Saint Briac, mouth of Le<br>Fremur.                       | 48° 37.0' N<br>2° 08.2' W | <b>Dir.W.R.G.</b><br>period 4s  | 33<br>10      | W. 13<br>R. 11<br>G. 11 | White post, hut; 20.                                | Iso.G. 121°30'-124°30',<br>Iso.W.-125°30', Iso.R.-<br>129°30'.   |
| 8000<br>A 1686             | <b>-Les Bas Sablons</b> Range,<br>front.                   | 48° 38.1' N<br>2° 01.3' W | <b>F.G.</b>   | 66<br>20      | 22                      | White square tower, black top;<br>62.               | Intensified 127°12'-130°12'.<br>Shown 24 hours.<br><b>AIS</b> (MMSI No 992271312).   |
| 8004<br>A 1686.1           | <b>--La Ballue</b> , rear, 1.65 km.<br>128°36' from front. | 48° 37.6' N<br>2° 00.2' W | <b>F.G.</b>   | 226<br>69     | 25                      | Gray square tower; 121.                             | Intensified 128°-129°30'.<br>Rear range 129°42' with<br>7980.<br>Shown 24 hours.<br><b>AIS</b> (MMSI No 992271313).  |
| 8006<br>A 1673             | -Saint Enogat Range, front.                                | 48° 38.3' N<br>2° 04.1' W | <b>Iso.W.</b><br>period 4s  | 10<br>3       | 6                       | White metal mast; 13.                               | Visible 126°-236°.   |
| 8006.1<br>A 1673.1         | <b>--Dinard</b> , rear 158°12' from<br>front.              | 48° 37.0' N<br>2° 03.3' W | <b>Iso.W.</b><br>period 4s  | 279<br>85     | 8                       | White water tower; 115.                             | Visible 143°-210°.<br>Synchronized with front.   |
| 8008<br>A 1682             | -Mole des Noires, head.                                    | 48° 38.5' N<br>2° 01.9' W | <b>V.Q.R.</b>   | 36<br>11      | 6                       | White pyramidal tower, red top;<br>33.              | <b>Horn:</b> 2 bl. ev. 20s (bl. 3s, si.<br>3s, bl. 3s, si. 11s).   |
| BAIE DU MONT SAINT MICHEL: |  |                           |   |               |                         |   |  |
| 8012<br>A 1670             | -Le Herpin.  | 48° 43.8' N<br>1° 48.9' W | <b>Iso.W.</b><br>period 4s  | 66<br>20      | 13                      | White tower, black top and base;<br>92.             |  |

| (1)<br>No.                | (2)<br>Name and Location             | (3)<br>Position           | (4)<br>Characteristic   | (5)<br>Height | (6)<br>Range          | (7)<br>Structure                            | (8)<br>Remarks  |
|---------------------------|--------------------------------------|---------------------------|---|---------------|-----------------------|---|---|
| <b>FRANCE-NORTH COAST</b> |                                      |                           |   |               |                       |   |   |
| 8016<br>A 1672            | -La Houle-sous-Cancalle, pier, head. | 48° 40.1' N<br>1° 51.1' W | <b>Oc.(3)G.</b><br>period 12s<br>lt. 4.5s, ec. 1.5s<br>lt. 1.5s, ec. 1.5s<br>lt. 1.5s, ec. 1.5s                       | 39<br>12      | 7                     | White pylon, black top, hut; 36.            |   |
| 8020<br>A 1654            | <b>Iles Chausey.</b>                 | 48° 52.2' N<br>1° 49.4' W | <b>Fl.W.</b><br>period 5s<br>fl. 0.3s, ec. 4.7s   | 128<br>39     | 23                    | Gray square tower; 62.                      | <b>Horn:</b> (about 80 meters SE.)<br>1 bl. ev. 30s (bl. 3s, si. 27s).  |
| 8024<br>A 1655            | -La Crabiere E., 332°06'.            | 48° 52.5' N<br>1° 49.4' W | <b>Dir.Oc.(3)W.R.G.</b><br>period 12s<br>lt. 4.5s, ec. 1.5s<br>lt. 1.5s, ec. 1.5s<br>lt. 1.5s, ec. 1.5s               | 16<br>5       | W. 9<br>R. 6<br>G. 6  | S. CARDINAL<br>YB, beacon, topmark; 36.     | W. 079°-291°, G.-329°, W.-335°, R.-079°.  |
| 8028<br>A 1656            | Le Pignon.                           | 48° 53.5' N<br>1° 43.4' W | <b>Fl.(2)W.R.</b><br>period 6s<br>fl. 0.5s, ec. 1.5s<br>fl. 0.5s, ec. 3.5s  | 33<br>10      | W. 9<br>R. 6          | Black tower, white band; 65.                | R. 005°-150°, W.-005°.  |
| GRANVILLE:                |                                      |                           |   |               |                       |   |   |
| 8036<br>A 1660            | <b>-Pointe du Roc.</b>               | 48° 50.1' N<br>1° 36.8' W | <b>Fl.(4)W.</b><br>period 15s<br>fl. 0.2s, ec. 2.3s<br>fl. 0.2s, ec. 2.3s<br>fl. 0.2s, ec. 2.3s<br>fl. 0.2s, ec. 7.3s | 161<br>49     | 23                    | Gray tower, red top; 52.                    | <b>Horn:</b> (about 310 meters NE.)<br>4 bl. ev. 60s (bl. 2s, si. 3s, bl. 2s, si. 3s, bl. 2s, si. 3s, bl. 2s, si. 43s). |
| 8040<br>A 1666            | -Le Loup.                            | 48° 49.6' N<br>1° 36.2' W | <b>Fl.(2)W.</b><br>period 6s<br>fl. 1s, ec. 1s<br>fl. 1s, ec. 3s  | 27<br>8       | 11                    | ISOLATED DANGER<br>BRB, tower, topmark; 79. | <b>Radar reflector.</b>   |
| 8044<br>A 1662            | -W. jetty.                           | 48° 49.9' N<br>1° 36.3' W | <b>Fl.R.</b><br>period 2.5s<br>fl. 0.5s, ec. 2s   | 39<br>12      | 4                     | Red pylon; 30.                              | Synchronized with E. jetty.   |
| 8048<br>A 1664            | -E. jetty.                           | 48° 50.0' N<br>1° 36.2' W | <b>Fl.G.</b><br>period 2.5s<br>fl. 0.5s, ec. 2s   | 36<br>11      | 4                     | White pylon, green top, hut; 26.            | Synchronized with W. jetty.   |
| 8052<br>A 1668            | -Herel marina, jetty, head.          | 48° 49.9' N<br>1° 35.9' W | <b>Fl.(2)R.</b><br>period 6s<br>fl. 0.5s, ec. 1.5s<br>fl. 0.5s, ec. 3.5s  | 39<br>12      | 5                     | White metal post, red top; 30.              | Fl.(2)G. 6s shown on inner jetty.<br><b>Horn:</b> 2 bl. ev. 40s (bl. 2s, si. 3s, bl. 2s, si. 33s).                      |
| 8054<br>A 1649            | Le Ronquet.                          | 49° 00.1' N<br>1° 38.1' W | <b>Fl.(2)W.R.</b><br>period 6s<br>fl. 1s, ec. 1s<br>fl. 1s, ec. 3s  | 36<br>11      | W. 6<br>R. 4          | ISOLATED DANGER<br>BRB, tower, topmark.     | W. 293°-100°, R.-293°.  |
| 8056<br>A 1650            | Regneville, Pointe d'Agon.           | 49° 00.2' N<br>1° 34.6' W | <b>Oc.(2)W.R.</b><br>period 6s<br>lt. 1s, ec. 1s<br>lt. 3s, ec. 1s  | 39<br>12      | W. 10<br>R. 7         | White tower, red top, dwellings; 39.        | R. 063°-110°, W.-063°.  |
| 8060<br>A 1651            | -Havre de Regneville, 028°.          | 49° 00.6' N<br>1° 33.4' W | <b>Dir.Oc.W.R.G.</b><br>period 4s<br>lt. 3s, ec. 1s   | 30<br>9       | W. 12<br>R. 9<br>G. 9 | Dwelling; 20.                               | G. 024°-027°, W.-029°, R.-033°.   |
| 8064<br>A 1648            | Le Senequet.                         | 49° 05.5' N<br>1° 39.8' W | <b>Fl.(3)W.R.</b><br>period 12s<br>fl. 1s, ec. 1.5s<br>fl. 1s, ec. 1.5s<br>fl. 1s, ec. 6s                             | 59<br>18      | W. 9<br>R. 6          | White tower; 85.                            | R. 083°30'-116°30', W.-083°30'.   |
| 8068<br>A 1644            | Portbail, Entrance Range, front.     | 49° 19.7' N<br>1° 42.5' W | <b>Q.W.</b>   | 46<br>14      | 10                    | White pylon, red top; 26.                   |   |
| 8072<br>A 1644.1          | -Rear, 870 meters 042° from front.   | 49° 20.1' N<br>1° 42.0' W | <b>Oc.W.</b><br>period 4s<br>lt. 3s, ec. 1s   | 65<br>20      | 10                    | Belfry; 115.                                |   |
| 8076<br>A 1646            | -Digue, submersible.                 | 49° 19.5' N<br>1° 43.0' W | <b>Q.(2)R.</b><br>period 5s<br>fl. 0.2s, ec. 0.8s<br>fl. 0.2s, ec. 3.8s   | 16<br>5       | 4                     | White mast, red top; 23.                    |   |

| (1)<br>No.                    | (2)<br>Name and Location                                | (3)<br>Position           | (4)<br>Characteristic  | (5)<br>Height | (6)<br>Range          | (7)<br>Structure   | (8)<br>Remarks  |
|-------------------------------|---|---------------------------|--|---------------|-----------------------|--|---|
| <b>FRANCE-NORTH COAST</b>     |   |                           |  |               |                       |  |   |
| 8080<br><i>A 1638</i>         | Cap de Carteret.  | 49° 22.4' N<br>1° 48.4' W | Fl.(2+1)W.<br>period 15s<br>fl. 0.3s, ec. 2.3s<br>fl. 0.3s, ec. 5.9s<br>fl. 0.3s, ec. 5.9s                     | 265<br>81     | 26                    | Gray tower, green top; 59.                               |   |
| 8084<br><i>A 1640</i>         | -Carteret, W. jetty, head.                              | 49° 22.0' N<br>1° 47.3' W | Oc.R.<br>period 4s<br>lt. 3s, ec. 1s   | 23<br>7       | 7                     | White metal post, red top; 10.                           |   |
| 8088<br><i>A 1641</i>         | -Submerged breakwater, head.                            | 49° 22.2' N<br>1° 47.2' W | Fl.G.<br>period 2.5s<br>fl. 0.5s, ec. 2s   | 13<br>4       | 2                     | White metal post, green top; 10.                         |   |
| 8092<br><i>A 1632</i>         | Dielette.   | 49° 33.2' N<br>1° 51.8' W | Iso.W.R.G.<br>period 4s  | 39<br>12      | W. 10<br>R. 7<br>G. 7 | White tower, green top; 36.                              | G. 070°-135°, W.-145°, R.-180°.   |
| 8095<br><i>A 1513</i>         | La Foraine.   | 49° 42.9' N<br>1° 58.3' W | V.Q.(9)W.<br>period 10s  | 39<br>12      | 6                     | W. CARDINAL<br>YBY, beacon tower; 43.                    |   |
| <b>CHANNEL ISLANDS (U.K.)</b> |   |                           |  |               |                       |  |   |
| JERSEY:                       |   |                           |  |               |                       |  |   |
| 8100<br><i>A 1620</i>         | -La Corbiere.   | 49° 10.7' N<br>2° 15.0' W | Iso.W.R.<br>period 10s   | 119<br>36     | W. 18<br>R. 16        | White round stone tower; 62.                             | W. 250-294°, R.-328°, W.-148°, R.-250.<br>Horn: Mo.(C) ev. 60s (bl. 3s, si. 1s, bl. 1s, si. 1s, bl. 3s, si. 1s, bl. 1s, si. 49s). |
| 8104<br><i>A 1621</i>         | -Beacon, about 815 meters<br>071° from Point Corbiere.  | 49° 10.9' N<br>2° 14.3' W | F.R.   |               | 5                     | Red rectangular daymark, white stripe.                   | Visible 331°-151°.  |
| 8108<br><i>A 1616</i>         | --Noirmont Point.                                       | 49° 09.9' N<br>2° 10.1' W | Fl.(4)W.<br>period 12s<br>fl. 0.7s, ec. 1.5s<br>fl. 0.7s, ec. 1.5s<br>fl. 0.7s, ec. 1.5s<br>fl. 0.7s, ec. 4.7s | 59<br>18      | 10                    | Black tower, white band; 33.                             |   |
| -St. Aubins Bay:              |   |                           |  |               |                       |  |   |
| 8112<br><i>A 1614</i>         | --St. Aubin, N. pier, head.                             | 49° 11.2' N<br>2° 09.9' W | Iso.R.<br>period 4s  | 41<br>12      | 10                    | Metal column.  |   |
|                               |   |                           | Dir.W.R.G.   | 16<br>5       |                       |  | F.G. 248°-253°, F.W.-255°, F.R.-260°.   |
| 8116<br><i>A 1614.2</i>       | --Fort, pier, head.                                     | 49° 11.2' N<br>2° 09.5' W | Fl.R.<br>period 4s<br>fl. 0.5s, ec. 3.5s   | 26<br>8       | 1                     |  |   |
| 8120<br><i>A 1604</i>         | --Elizabeth Post Range, front.                          | 49° 10.6' N<br>2° 06.9' W | Oc.G.<br>period 5s<br>lt. 4s, ec. 1s   | 33<br>10      | 11                    | Metal framework tower, dolphin, red rectangular daymark. |   |
| 8124<br><i>A 1604.1</i>       | ---Albert pier, rear, 230 meters<br>022°40' from front. | 49° 10.7' N<br>2° 06.9' W | Oc.R.<br>period 5s<br>lt. 4s, ec. 1s   | 59<br>18      | 12                    | Metal framework tower, red rectangular daymark; 49.      | Synchronized with front.  |
| 8128<br><i>A 1606</i>         | --Platte Rock.  | 49° 10.2' N<br>2° 07.3' W | Fl.R.<br>period 1.5s<br>fl. 0.3s, ec. 1.2s   | 20<br>6       | 5                     | Red metal column.  |   |
| 8132<br><i>A 1609</i>         | --S. end of old harbor Range, front.                    | 49° 10.7' N<br>2° 06.7' W | F.G.   |               |                       | White column.  |   |
| 8136<br><i>A 1609.1</i>       | ---Rear, 80 meters 078° from front.                     | 49° 10.7' N<br>2° 06.5' W | F.G.   |               |                       | White column.  |   |

| (1)<br>No.                    | (2)<br>Name and Location                       | (3)<br>Position           | (4)<br>Characteristic   | (5)<br>Height | (6)<br>Range   | (7)<br>Structure   | (8)<br>Remarks   |
|-------------------------------|--|---------------------------|---|---------------|----------------|--|--|
| <b>CHANNEL ISLANDS (U.K.)</b> |  |                           |   |               |                |  |  |
| 8140<br><i>A 1598</i>         | -Demie de Pas.                                 | 49° 09.0' N<br>2° 06.2' W | <b>Mo.(D)W.R.</b><br>period 12s<br>fl. 3s, ec. 1s<br>fl. 1s, ec. 1s<br>fl. 1s, ec. 5s | 36<br>11      | W. 12<br>R. 9  | Black tower, yellow top.   | R. 130°-303°, W.-130°.<br><b>Horn:</b> 3 bl. ev. 60s (bl. 2s, si. 2s, bl. 2s, si. 2s, bl. 2s, si. 50s).        |
|                               | -RACON   |                           | <b>T(-)</b><br>period 120s  |               | 10             |  | (3cm).   |
| 8144<br><i>A 1594</i>         | -La Greve d'Azette Range, front.               | 49° 10.1' N<br>2° 05.1' W | <b>Oc.W.</b><br>period 5s<br>lt. 4s, ec. 1s   | 75<br>23      | 14             | White metal framework structure, red rectangular daymark; 66.      | Visible 034°-129°.   |
| 8148<br><i>A 1594.1</i>       | -Mont Ube, rear, 1.9 km. 082° from front.      | 49° 10.3' N<br>2° 03.6' W | <b>Oc.R.</b><br>period 5s<br>lt. 4s, ec. 1s   | 150<br>46     | 12             | White metal framework tower; 46.                                   | Visible 250°-095°. Reserve light of low power.   |
| 8152<br><i>A 1588</i>         | -Gorey Range, Dir. Lt.                         | 49° 11.8' N<br>2° 01.3' W | <b>Oc.W.R.G.</b><br>period 5s<br>lt. 4s, ec. 1s                                       | 26<br>8       | 8              | White metal framework tower; 16.                                   | G. 228°-296°30', W.-299°30', R.-008°.  |
| 8160<br><i>A 1586</i>         | -St. Catherine Bay, Verclut, breakwater, head. | 49° 13.3' N<br>2° 00.6' W | <b>Fl.W.</b><br>period 1.5s<br>fl. 0.2s, ec. 1.3s                                     | 60<br>18      | 13             | White framework tower; 30.   | Unlit rear beacon.   |
| 8164<br><i>A 1584</i>         | <b>-Sorel Point.</b>                           | 49° 15.6' N<br>2° 09.5' W | <b>L.Fl.W.R.</b><br>period 7.5s<br>fl. 2s, ec. 5.5s                                   | 163<br>50     | 15             | White round concrete tower; 10.                                    | W. 095°-112°, R.-173°, W.-230°, R.-269°, W.-273°.  |
| 8168<br><i>A 1585</i>         | -Bonne Nuit Bay, Range, front.                 | 49° 15.1' N<br>2° 07.0' W | <b>F.G.</b>   | 23<br>7       | 6              | White column.  |  |
| 8172<br><i>A 1585.1</i>       | --Rear, 170 meters 223° from front.            | 49° 15.1' N<br>2° 07.2' W | <b>F.G.</b>   | 112<br>34     | 6              | Red daymark.   |  |
| 8176<br><i>A 1622</i>         | <b>-Grosnez Point.</b>                         | 49° 15.5' N<br>2° 14.8' W | <b>Fl.(2)W.R.</b><br>period 15s<br>fl. 0.7s, ec. 1.5s<br>fl. 0.8s, ec. 12s            | 164<br>50     | W. 19<br>R. 17 | White concrete hut.  | W. 081°-188°, R.-241°.   |
| GUERNSEY:                     |  |                           |   |               |                |  |  |
| 8180<br><i>A 1580</i>         | <b>-Les Hanois.</b>                            | 49° 26.1' N<br>2° 42.2' W | <b>Fl.(2)W.</b><br>period 13s<br>fl. 0.1s, ec. 3.1s<br>fl. 0.1s, ec. 9.7s             | 108<br>33     | 20             | Gray round granite tower, black lantern; 108. Helicopter platform. | Visible 294°-237°. 4 F.R. on masts 1.27 miles E. <b>Horn:</b> 2 bl. ev. 60s (bl. 3s, si. 2s, bl. 3s, si. 52s). |
| 8184<br><i>A 1548</i>         | <b>-Platte Fougere.</b>                        | 49° 30.8' N<br>2° 29.1' W | <b>Fl.W.R.</b><br>period 10s<br>fl. 1.3s, ec. 8.7s                                    | 50<br>15      | 16             | White octagonal tower, black band; 82.                             | W. 155°-085°, R.-155°. <b>Horn:</b> 1 bl. ev. 45s (bl. 3s, si. 42s).   |
|                               | -RACON   |                           | <b>P(• - - •)</b>   |               |                |  |  |
| 8188<br><i>A 1548.5</i>       | -Tautenay.                                     | 49° 30.1' N<br>2° 26.8' W | <b>Q.(3)W.R.</b><br>period 6s   | 23<br>7       | W. 7<br>R. 6   | Black and white beacon.  | W. 050°-215°, R.-050°.   |
| 8192<br><i>A 1552</i>         | -Roustel, S. head.                             | 49° 29.2' N<br>2° 28.8' W | <b>Q.W.</b>   | 26<br>8       | 7              | White metal framework column; 26.                                  |  |
| 8196<br><i>A 1550</i>         | -Platte.                                       | 49° 29.1' N<br>2° 29.5' W | <b>Fl.W.R.</b><br>period 3s<br>fl. 0.3s, ec. 2.7s                                     | 21<br>6       | W. 7<br>R. 5   | Green conical stone tower; 30.                                     | R. 024°-219°, W.-024°.   |
| HERM:                         |  |                           |   |               |                |  |  |
| 8200<br><i>A 1546.4</i>       | -Epec E.                                       | 49° 28.0' N<br>2° 27.9' W | <b>Fl.G.</b><br>period 3s   |               |                | Green mast.  |  |
| 8204<br><i>A 1546.6</i>       | -Vermerette V.                                 | 49° 28.3' N<br>2° 27.8' W | <b>Fl.(2)Y.</b><br>period 5s  |               |                | Beacon.  |  |
| 8205<br><i>A 1546.7</i>       | -Gate Rock.                                    | 49° 27.9' N<br>2° 27.4' W | <b>Q.(9)W.</b><br>period 15s  |               |                | W. CARDINAL YBY, beacon, topmark.                                  |  |
| 8208<br><i>A 1546</i>         | -Alligande A.                                  | 49° 27.9' N<br>2° 28.8' W | <b>Fl.(3)G.</b><br>period 5s  |               |                | Black mast.  | <b>Radar reflector.</b>  |

| (1)<br>No.                    | (2)<br>Name and Location   | (3)<br>Position           | (4)<br>Characteristic  | (5)<br>Height | (6)<br>Range | (7)<br>Structure                                    | (8)<br>Remarks  |
|-------------------------------|--|---------------------------|--|---------------|--------------|---|---|
| <b>CHANNEL ISLANDS (U.K.)</b> |  |                           |  |               |              |   |   |
| 8212<br><i>A 1559</i>         | -Brehon.   | 49° 28.3' N<br>2° 29.3' W | <b>Iso.W.</b><br>period 4s   | 62<br>19      | 9            | Beacon, round tower.                                |   |
| 8216<br><i>A 1557</i>         | -St. Sampson Harbor, N. pier,<br>head.   | 49° 29.0' N<br>2° 30.7' W | <b>F.G.</b>  | 10<br>3       | 5            | Post; 7.  | Visible 230°-340°.  |
| 8220<br><i>A 1558</i>         | --S. pier Range, front.  | 49° 28.9' N<br>2° 30.8' W | <b>F.R.</b>  | 10<br>3       | 5            | Post; 7.  | Visible 230°-340°.  |
| 8224<br><i>A 1558.1</i>       | ---Rear, 390 meters 286° from<br>front.  | 49° 29.0' N<br>2° 31.0' W | <b>F.G.</b>  | 42<br>13      |              | Clock tower; 39.                                    |   |
| 8228<br><i>A 1554</i>         | -St. Sampson Harbor, Crocq<br>Pier, head.                                      | 49° 29.0' N<br>2° 31.1' W | <b>F.R.</b>  | 36<br>11      | 5            | Red column; 20.                                     | Visible 250°-340°.<br>Traffic signals.  |
| -St. Peter Port:              |  |                           |  |               |              |   |   |
| 8232<br><i>A 1560</i>         | -- <b>New Harbor</b> Range, front.   | 49° 27.3' N<br>2° 31.4' W | <b>Al.W.R.</b><br>period 10s<br>W. lt. 7.5s<br>R. lt. 2.5s   | 46<br>14      | 16           | Dark round granite tower, white<br>on NE. face; 40. | Visible 187°-007°,<br>unintensified landward.<br><b>Horn:</b> 1 bl. ev. 15s (bl. 2.5s,<br>si. 12.5s).                             |
| 8236<br><i>A 1560.1</i>       | ---Belvedere, rear, 990 meters<br>220° from front.                             | 49° 26.9' N<br>2° 32.0' W | <b>Oc.W.</b><br>period 10s<br>lt. 7.5s, ec. 2.5s   | 200<br>61     | 14           | White tower, white square<br>daymark; 13.           | Visible 179°-269°.<br>Intensified 217°-223°.  |
| 8246<br><i>A 1567</i>         | ---Fish quay, NW. head.  | 49° 27.3' N<br>2° 31.8' W | <b>F.R.</b>  | 6<br>2        |              |   |   |
| 8246.5<br><i>A 1567.2</i>     | ---SW. head.   | 49° 27.3' N<br>2° 31.9' W | <b>F.R.</b>  | 6<br>2        |              |   |   |
| 8248<br><i>A 1569</i>         | ---Range, front.   | 49° 27.4' N<br>2° 31.9' W | <b>Oc.R.</b><br>period 5s<br>lt. 4s, ec. 1s  | 34<br>10      | 14           | White framework tower, red<br>lantern; 23.          |   |
| 8248.5<br><i>A 1569.1</i>     | ----Rear, 160 meters 265° from<br>front.                                       | 49° 27.4' N<br>2° 32.1' W | <b>Iso.R.</b><br>period 2s   | 72<br>22      | 3            | White square building.                              | Visible 260°-270°.  |
| 8249<br><i>A 1570</i>         | --Queen Elizabeth II Marina.   | 49° 27.8' N<br>2° 31.8' W | <b>Oc.W.R.G.</b><br>period 3s  | 16<br>5       | 6            |   | G. 258°-268°, W.-272°, R.-<br>282°.   |
| 8252<br><i>A 1562</i>         | --White Rock Pier, head.   | 49° 27.4' N<br>2° 31.6' W | <b>Oc.G.</b><br>period 5s<br>lt. 4s, ec. 1s  | 36<br>11      | 14           | Round stone tower; 32.                              | Intensified 174°-354°.<br>Traffic signals.  |
| 8256<br><i>A 1574</i>         | -St. Martins Point.  | 49° 25.3' N<br>2° 31.7' W | <b>Fl.(3)W.R.</b><br>period 10s<br>fl. 1s, ec. 1.5s<br>fl. 1s, ec. 1.5s<br>fl. 1s, ec. 4s  | 50<br>15      | 14           | White concrete building; 16.                        | R. 185°-191°, W.-011°, R.-<br>061°30'.<br><b>Horn:</b> 3 bl. ev. 30s (bl. 1s, si.<br>2.5s, bl. 1s, si. 2.5s, bl. 1s,<br>si. 22s). |
| SARK:                         |  |                           |  |               |              |   |   |
| 8260<br><i>A 1544</i>         | - <b>Point Robert.</b>   | 49° 26.2' N<br>2° 20.7' W | <b>Fl.W.</b><br>period 15s<br>fl. 0.2s, ec. 14.8s  | 213<br>65     | 20           | White octagonal tower.                              | Visible 138°-353°.<br><b>Horn:</b> 2 bl. ev. 30s (bl. 2s, si.<br>2s, bl. 2s, si. 24s).  |
| 8261<br><i>A 1545</i>         | -Corbet du Nez.  | 49° 27.1' N<br>2° 22.2' W | <b>Fl.(4)W.R.</b><br>period 15s  | 46<br>14      | 8            | White wooden structure, rock; 3.                    | W. 057°-230° R.-057°.<br>Wind generator close by.   |
| 8262<br><i>A 1545.5</i>       | Big Russel, Noire Pute.  | 49° 28.2' N<br>2° 25.0' W | <b>Fl.(2)W.R.</b><br>period 15s  | 26<br>8       | 6            | Rock.   | W. 220°-040°, R.-220°.  |
| 8264<br><i>A 1532</i>         | <b>Casquets.</b>   | 49° 43.3' N<br>2° 22.6' W | <b>Fl.(5)W.</b><br>period 30s<br>fl. 0.1s, ec. 3.6s<br>fl. 0.1s, ec. 3.6s<br>fl. 0.1s, ec. 3.6s<br>fl. 0.1s, ec. 3.6s<br>fl. 0.1s, ec. 15.1s | 120<br>37     | 18           | White tower, two red bands; 75.                     | Shown 24 hours.<br><b>AIS</b> (MMSI No 992351120).  |
| RACON                         |  |                           |  | <b>T(-)</b>   |              | 25  | (3 & 10cm).   |
| 8268<br><i>A 1520</i>         | <b>CHANNEL LIGHTSHIP</b> , W. end<br>of Casquets traffic<br>separation scheme. | 49° 54.4' N<br>2° 53.7' W | <b>Fl.W.</b><br>period 15s<br>fl. 0.3s, ec. 14.7s  |               | 15           | Red hull, light tower amidships;<br>39.             | <b>AIS</b> (MMSI No 992351028).<br><b>Horn:</b> 1 bl. ev. 20s (bl. 2s, si.<br>18s).   |

| (1)<br>No.                    | (2)<br>Name and Location  | (3)<br>Position           | (4)<br>Characteristic   | (5)<br>Height | (6)<br>Range          | (7)<br>Structure  | (8)<br>Remarks   |
|-------------------------------|---|---------------------------|---|---------------|-----------------------|---|--|
| <b>CHANNEL ISLANDS (U.K.)</b> |   |                           |   |               |                       |   |  |
| ALDERNEY:                     |   |                           |   |               |                       |   |  |
| 8288<br>A 1538                | -Braye Harbor Range, front.   | 49° 43.4' N<br>2° 11.9' W | <b>Q.W.</b>   | 25<br>8       | 9                     | Orange triangular daymark point up; 7.                  | Visible 210°-220°.   |
| 8292<br>A 1538.1              | --Rear, 335 meters 215° from front.   | 49° 43.2' N<br>2° 12.0' W | <b>Q.W.</b>   | 55<br>17      | 12                    | Orange triangular daymark point up; 16.                 | Visible 210°-220°. Synchronized with front.                  |
| 8292.5<br>A 1538.5            | --Breakwater, head.   | 49° 43.8' N<br>2° 11.5' W | <b>L.F.I.W.</b><br>period 10s<br>fl. 2s, ec. 8s   | 23<br>7       | 5                     |   |  |
| 8293<br>A 1539                | --Quay, head.   | 49° 43.6' N<br>2° 11.9' W | <b>2 F.R.</b> (vert.)   | 26<br>8       | 5                     |   |  |
| 8296<br>A 1537                | -Chateau a l'Etoc Point.  | 49° 43.9' N<br>2° 10.6' W | <b>Iso.W.R.</b><br>period 4s  | 65<br>20      | W. 10<br>R. 7         | Building; 66.   | R. 071°06'-111°06', W.-151°06'.                              |
| 8300<br>A 1536                | -Alderney.  | 49° 43.7' N<br>2° 09.8' W | <b>Fl.(4)W.</b><br>period 15s<br>fl. 0.1s, ec. 2.2s<br>fl. 0.1s, ec. 2.2s<br>fl. 0.1s, ec. 2.2s<br>fl. 0.1s, ec. 8s | 121<br>37     | 12                    | White round tower, black band; 105.                     | Visible 085°-027°. Shown 24 hours.                           |
| <b>FRANCE-NORTH COAST</b>     |   |                           |   |               |                       |   |  |
| 8304<br>A 1512                | <b>Cap de la Hague.</b>   | 49° 43.3' N<br>1° 57.3' W | <b>Fl.W.</b><br>period 5s<br>fl. 0.1s, ec. 4.9s   | 157<br>48     | 23                    | Gray tower, white top; 167.                             | <b>Horn:</b> 1 bl. ev. 30s (bl. 3s, si. 27s).                |
| 8308<br>A 1508                | Omonville-La Rogue.   | 49° 42.2' N<br>1° 50.1' W | <b>Iso.W.R.G.</b><br>period 4s  | 42<br>13      | W. 10<br>R. 7<br>G. 7 | White pylon, red top.                                   | G. 180°-252°, W.-262°, R.-287°.                              |
| 8312<br>A 1514                | La Plate (Ronde), about 3 km. 057° from Cap de la Hague Light.                          | 49° 44.0' N<br>1° 55.7' W | <b>Fl.(2+1)W.R.</b><br>period 10s<br>fl. 0.6s, ec. 0.6s<br>fl. 0.6s, ec. 1.8s<br>fl. 0.6s, ec. 5.8s                 | 36<br>11      | W. 9<br>R. 6          | Octagonal tower, two triangular topmarks points up; 62. | W. 115°-272°, R.-115°.                                       |
| CHERBOURG:                    |   |                           |   |               |                       |   |  |
| -Passe Ouest:                 |   |                           |   |               |                       |   |  |
| 8320<br>A 1482                | --Digue Ouest (Querqueville).   | 49° 40.3' N<br>1° 39.8' W | <b>Fl.(2)G.</b><br>period 6s<br>fl. 1s, ec. 1s<br>fl. 1s, ec. 3s  | 26<br>8       | 4                     | White structure, green top; 23.                         |  |
| 8324<br>A 1484                | -- <b>Fort Du Homet</b> Range, front, SW. limit, 320°18', 1835 meters from common rear. | 49° 39.5' N<br>1° 38.0' W | <b>Q.W.</b>   | 17<br>5       | 17                    | White triangular daymark point up; 13.                  | Intensified 137°18'-143°18'. Storm signals on Fort du Homet. |
| 8328<br>A 1484.1              | ---Gare Maritime.   | 49° 38.8' N<br>1° 37.0' W | <b>Q.W.</b>   | 114<br>35     | 17                    | Gray pylon, white triangular daymark point up; 115.     | Intensified 138°48'-141°48'. Synchronized with front.        |
| 8332<br>A 1480                | -- <b>Fort de l'Ouest.</b>  | 49° 40.5' N<br>1° 38.9' W | <b>Fl.(3)W.R.</b><br>period 15s<br>fl. 0.2s, ec. 2.8s<br>fl. 0.2s, ec. 2.8s<br>fl. 0.2s, ec. 8.8s                   | 62<br>19      | W. 24<br>R. 20        | Gray tower, red top; 30.                                | W. 122°-355°, R.-122°.                                       |
| 8336<br>A 1478                | --Fort Central.   | 49° 40.4' N<br>1° 37.0' W | <b>V.Q.(6)+L.F.I.W.</b><br>period 10s   | 16<br>5       | 4                     | S. CARDINAL<br>YB, column, topmark; 10.                 | Visible 322°-032°.   |
| -Cherbourg (Digue Centrale):  |   |                           |   |               |                       |   |  |
| 8340<br>A 1476                | --Fort de l'Est.  | 49° 40.3' N<br>1° 35.9' W | <b>Iso.G.</b><br>period 4s  | 43<br>13      | 9                     | White pylon, green top; 30.                             |  |



| (1)<br>No.                | (2)<br>Name and Location   | (3)<br>Position           | (4)<br>Characteristic   | (5)<br>Height | (6)<br>Range  | (7)<br>Structure   | (8)<br>Remarks   |
|---------------------------|--|---------------------------|---|---------------|---------------|--|--|
| <b>FRANCE-NORTH COAST</b> |  |                           |   |               |               |  |  |
| 8344<br>A 1470            | --Ile Pelee.   | 49° 40.2' N<br>1° 35.1' W | <b>Oc.(2)W.R.</b><br>period 6s<br>lt. 1s, ec. 1s<br>lt. 3s, ec. 1s  | 62<br>19      | W. 10<br>R. 7 | Red and white structure; 26.                                       | W. 055°-120°, R.-055°.   |
| 8348<br>A 1472            | -S. side of Passe Collignon.   | 49° 39.6' N<br>1° 34.2' W | <b>Fl.(2)R.</b><br>period 6s  | 15<br>5       | 4             | White metal post, red top; 13.                                     |  |
| 8352<br>A 1486            | -Jetee du Homet Range, front,<br>1397 meters 304°18' from<br>common rear.                    | 49° 39.5' N<br>1° 37.0' W | <b>Q.G.</b>   | 32<br>10      | 6             | White structure, green top; 30.                                    | Forms range 124°18' with<br>common rear.   |
| 8356<br>A 1471.51         | --Common rear, Terre-plein du<br>Mielles.  | 49° 39.1' N<br>1° 36.0' W | <b>Iso.G.</b><br>period 4s  | 53<br>16      | 10            | Black column, white bands, white<br>top.                           | Intensified 114°30'-134°30'.<br>Emergency light.   |
|                           |  |                           | <b>Q.W.</b>   | 52<br>16      | 13            |  | Visible 179°18'-199°18'.<br>Obscured when ships<br>present.                              |
| 8356.1<br>A 1471.5        | -Jetee des Flamands E., front,<br>520 meters 189° 18' from<br>common rear.                   | 49° 39.3' N<br>1° 35.9' W | <b>Q.W.</b>   | 30<br>9       | 13            | White metal pylon, white hut; 26.                                  | Visible 179°18'-199°18'.   |
| 8364<br>A 1488            | -Anchorage Range, front.   | 49° 39.5' N<br>1° 38.5' W | <b>Q.G.</b>   | 36<br>11      | 10            | White pylon.   | Intensified 190°-194°.   |
| 8368<br>A 1488.1          | --Rear, 652 meters 192°42'<br>from front.  | 49° 39.2' N<br>1° 38.6' W | <b>Q.G.</b>   | 84<br>26      | 12            | Green structure; 56.   | Intensified 189°-195°.<br>Synchronized with front.                                       |
| 8372<br>A 1495            | --E. mole, head.   | 49° 39.1' N<br>1° 36.8' W | <b>Oc.R.</b><br>period 4s<br>lt. 3s, ec. 1s   | 30<br>9       | 4             | White structure, red top; 10.                                      |  |
| 8376<br>A 1498            | --Gare Maritime, NE. corner.   | 49° 38.9' N<br>1° 37.0' W | <b>Fl.G.</b><br>period 4s<br>fl. 1s, ec. 3s   | 7<br>2        | 6             | Green structure; 3.  |  |
| 8380<br>A 1496            | ---NW. corner.   | 49° 38.9' N<br>1° 37.1' W | <b>Fl.(3)R.</b><br>period 12s<br>fl. 1s, ec. 1.5s<br>fl. 1s, ec. 1.5s<br>fl. 1s, ec. 6s                       | 20<br>6       | 5             | White column, red lantern; 20.                                     |  |
| 8384<br>A 1498.5          | ---W. side.  | 49° 38.8' N<br>1° 37.1' W | <b>Fl.(4)R.</b><br>period 15s<br>fl. 0.5s, ec. 2s<br>fl. 0.5s, ec. 2s<br>fl. 0.5s, ec. 2s<br>fl. 0.5s, ec. 7s | 10<br>3       | 3             | Red structure; 3.  | Visible 006°-186°.   |
| 8386<br>A 1499.5          | -Inner jetty.  | 49° 38.7' N<br>1° 37.2' W | <b>Fl.(4)G.</b><br>period 15s<br>fl. 0.5s, ec. 2s<br>fl. 0.5s, ec. 2s<br>fl. 0.5s, ec. 2s<br>fl. 0.5s, ec. 7s | 13<br>4       | 2             | White pile, green top; 10.   |  |
| 8388<br>A 1499            | -Marina, pier, head.   | 49° 38.9' N<br>1° 37.2' W | <b>Fl.(3)G.</b><br>period 12s<br>fl. 1s, ec. 1.5s<br>fl. 1s, ec. 1.5s<br>fl. 1s, ec. 6s                       | 23<br>7       | 6             | Green pylon; 20.   |  |
| 8392<br>A 1491            | -Avant Port Range, front, S.<br>side of entrance, 644<br>meters 087°48' from<br>common rear. | 49° 39.2' N<br>1° 37.9' W | <b>Q.R.</b>   | 36<br>11      | 6             | White pylon, red top; 26.  | S. limit of the cruise ship<br>turning area.   |
| 8396<br>A 1492            | --Common rear, Bassin<br>Napoleon.   | 49° 39.1' N<br>1° 38.4' W | <b>Q.W.</b>   | 52<br>16      | 11            | Gray pylon, white top; 46.   | Visible 250°-280°.<br>In line with N.(8400) and<br>S.(8392).<br>Synchronized with front. |
| 8398<br>A 1493            | -Inner Range, front.   | 49° 39.1' N<br>1° 38.4' W | <b>V.Q.W.</b>   |               |               | Lantern, orange triangular<br>daymark point up, black<br>band; 13. | Visible 253°-262°.   |
| 8398.1<br>A 1493.1        | --Rear, 257 meters 257°12'<br>from front.  | 49° 39.1' N<br>1° 38.6' W | <b>V.Q.W.</b>   |               |               | Orange triangular daymark point<br>up, black band; 30.             | Visible 253°-262°.   |

| (1)<br>No.                | (2)<br>Name and Location  | (3)<br>Position           | (4)<br>Characteristic   | (5)<br>Height | (6)<br>Range | (7)<br>Structure   | (8)<br>Remarks                                  |
|---------------------------|---|---------------------------|---|---------------|--------------|--|---|
| <b>FRANCE-NORTH COAST</b> |   |                           |   |               |              |  |   |
| 8400<br>A 1490            | -N. side of entrance, front, 644 meters 081°18' from common rear. | 49° 39.2' N<br>1° 37.9' W | <b>Q.G.</b>   |               | 36<br>11     | 6 White pylon, green top; 26.  | N. limit of the cruise ship turning area.       |
| 8404<br>A 1466            | Le Becquet Range, front.  | 49° 39.2' N<br>1° 32.8' W | <b>Oc.(3)W.</b><br>period 12s<br>lt. 4.5s, ec. 1.5s<br>lt. 1.5s, ec. 1.5s<br>lt. 1.5s, ec. 1.5s       |               | 26<br>8      | 10 White octagonal beacon tower; 20.                                   | Intensified 183°-190°.                          |
| 8408<br>A 1466.1          | -Rear, 49 meters 186°18' from front.                              | 49° 39.2' N<br>1° 32.8' W | <b>Oc.(3)R.</b><br>period 12s<br>lt. 4.5s, ec. 1.5s<br>lt. 1.5s, ec. 1.5s<br>lt. 1.5s, ec. 1.5s       |               | 43<br>13     | 7 Square tower, red octagonal top; 33.                                 | Intensified 183°-190°. Synchronized with front. |
| 8412<br>A 1463            | Port de Levi.   | 49° 41.2' N<br>1° 28.3' W | <b>Oc.(2)W.R.G.</b><br>period 6s<br>lt. 3s, ec. 1s<br>lt. 1s, ec. 1s                                  |               | 23<br>7      | 7 White and gray structure, white lantern; 20.                         | G. 055°-083°, W.-105°, R.-163°.                 |
| 8416<br>A 1462            | <b>Cap Levi.</b>  | 49° 41.8' N<br>1° 28.4' W | <b>Fl.R.</b><br>period 5s<br>fl. 1s, ec. 4s   |               | 118<br>36    | 17 Gray square tower, white top; 92.                                   |   |
| 8420<br>A 1458            | Anse de Vicq, entrance range, front.                              | 49° 42.2' N<br>1° 23.9' W | <b>Iso.R.</b><br>period 4s  |               | 26<br>8      | 6 White pylon, red top, red and white triangular daymark point up; 16. |   |
| 8424<br>A 1458.1          | -Rear, 403 meters 158° from front.                                | 49° 42.0' N<br>1° 23.8' W | <b>Iso.R.</b><br>period 4s  |               | 46<br>14     | 6 White pylon, red top, red and white triangular daymark point up; 26. | Synchronized with front.                        |
| 8428<br>A 1454            | <b>Pointe de Barfleur.</b>  | 49° 41.8' N<br>1° 15.9' W | <b>Fl.(2)W.</b><br>period 10s<br>fl. 0.2s, ec. 2.3s<br>fl. 0.2s, ec. 7.3s                             |               | 236<br>72    | 25 Gray tower, black top; 246.   |   |
| BARFLEUR:                 |   |                           |   |               |              |  |   |
| 8432<br>A 1444            | -Entrance Range, front.   | 49° 40.2' N<br>1° 15.6' W | <b>Oc.(3)W.</b><br>period 12s<br>lt. 1.5s, ec. 1.5s<br>lt. 1.5s, ec. 1.5s<br>lt. 4.5s, ec. 1.5s       |               | 23<br>7      | 10 White square tower; 23.   |   |
| 8436<br>A 1444.1          | -Rear, 288 meters 219°30' from front.                             | 49° 40.1' N<br>1° 15.7' W | <b>Oc.(3)W.</b><br>period 12s<br>lt. 1.5s, ec. 1.5s<br>lt. 1.5s, ec. 1.5s<br>lt. 4.5s, ec. 1.5s       |               | 43<br>13     | 10 Gray and white tower, green top; 43.                                | Visible 085°-355°. Synchronized with front.     |
| 8440<br>A 1448            | -Jetee Est, head.   | 49° 40.4' N<br>1° 15.4' W | <b>Oc.R.</b><br>period 4s<br>lt. 3s, ec. 1s   |               | 16<br>5      | 6 White hut, red top; 13.  |   |
| 8444<br>A 1450            | -Jetee Ouest, head.   | 49° 40.4' N<br>1° 15.5' W | <b>Fl.G.</b><br>period 4s<br>fl. 1s, ec. 3s   |               | 26<br>8      | 6 White pylon, green top; 23.  |   |
| 8448<br>A 1442            | Pointe de Saire, on redoubt.                                      | 49° 36.4' N<br>1° 13.8' W | <b>Oc.(2+1)W.</b><br>period 10s<br>lt. 0.6s, ec. 0.6s<br>lt. 3.8s, ec. 0.6s<br>lt. 3.8s, ec. 0.6s     |               | 36<br>11     | 10 White square tower, green top; 33.                                  |   |
| ST. VAAST LA HOUGUE:      |   |                           |   |               |              |  |   |
| 8452<br>A 1436            | -N. breakwater, head.   | 49° 35.2' N<br>1° 15.6' W | <b>Iso.G.</b><br>period 4s  |               | 20<br>6      | 5 White metal tank, green top; 20.                                     |   |
| 8456<br>A 1438            | -N. Groin, SW. side of entrance.                                  | 49° 35.2' N<br>1° 15.6' W | <b>Oc.(4)R.</b><br>period 12s<br>lt. 1s, ec. 1s<br>lt. 1s, ec. 1s<br>lt. 1s, ec. 1s<br>lt. 5s, ec. 1s |               | 20<br>6      | 6 White hut, red top; 20.  | Visible 018°-278°.                              |

| (1)<br>No.                | (2)<br>Name and Location              | (3)<br>Position           | (4)<br>Characteristic   | (5)<br>Height | (6)<br>Range          | (7)<br>Structure                          | (8)<br>Remarks                                    |
|---------------------------|---------------------------------------|---------------------------|---|---------------|-----------------------|---|---|
| <b>FRANCE-NORTH COAST</b> |                                       |                           |   |               |                       |   |   |
| 8460<br>A 1434            | -Jetty, head.                         | 49° 35.2' N<br>1° 15.4' W | <b>Oc.(2)W.R.G.</b><br>period 6s<br>lt. 1s, ec. 1s<br>lt. 3s, ec. 1s                                      | 39<br>12      | W. 10<br>R. 7<br>G. 7 | White octagonal metal tower, red top; 36. | R. 219°-237°, G.-310°, W.-350°, R.-040°, W.-219°. |
| 8464<br>A 1428            | La Hougue Range, front.               | 49° 34.2' N<br>1° 16.3' W | <b>Oc.W.</b><br>period 4s<br>lt. 3s, ec. 1s   | 30<br>9       |                       | White pylon, green top; 23.               |   |
| 8468<br>A 1428.1          | -Rear, 3.3 km 267°12' from front.     | 49° 34.2' N<br>1° 19.0' W | <b>Oc.(4)W.R.G.</b><br>period 12s<br>lt. 1s, ec. 1s<br>lt. 1s, ec. 1s<br>lt. 1s, ec. 1s<br>lt. 5s, ec. 1s | 295<br>90     | W. 11<br>R. 8<br>G. 8 | White octagonal tower, green top; 43.     | W. 171°-316°, G.-321°, R.-342°, W.-355°.          |
| <b>ILES ST. MARCOUF:</b>  |                                       |                           |   |               |                       |   |   |
| 8472<br>A 1424            | -Ile du Large, on fort.               | 49° 29.9' N<br>1° 08.8' W | <b>V.Q.(3)W.</b><br>period 5s   | 59<br>18      |                       | Gray square tower, green top; 56.         |   |
| 8476<br>A 1418            | <b>Carentan</b> Range, front.         | 49° 20.5' N<br>1° 11.1' W | <b>Oc.(3)R.</b><br>period 12s<br>lt. 1.5s, ec. 1.5s<br>lt. 1.5s, ec. 1.5s<br>lt. 4.5s, ec. 1.5s           | 20<br>6       | 18                    | White post, red top; 20.                  | Intensified 208°12'-210°42'.                      |
| 8480<br>A 1418.1          | -Rear, 723 meters 209°30' from front. | 49° 20.1' N<br>1° 11.4' W | <b>Oc.(3)W.</b><br>period 12s<br>lt. 4.5s, ec. 1.5s<br>lt. 1.5s, ec. 1.5s<br>lt. 1.5s, ec. 1.5s           | 46<br>14      | 10                    | White post, green top; 49.                | Visible 120°-005°. Synchronized with front.       |
| 8484<br>A 1412            | Isigny.                               | 49° 19.5' N<br>1° 06.8' W | <b>Dir.Q.W.R.G.</b>   | 23<br>7       | 9                     | White post; 23.                           | G. 170°30'-171°30', W.-173°, R.-174°.             |
| 8492<br>A 1410            | La Maresquerie.                       | 49° 23.1' N<br>1° 02.8' W | <b>Oc.W.</b><br>period 4s<br>lt. 3s, ec. 1s   | 92<br>28      | 12                    | White post; 39.                           | Visible 090°-270°.                                |
| 8496<br>A 1411            | <b>-Entrance</b> Range, front.        | 49° 23.4' N<br>1° 02.8' W | <b>Q.W.</b>   | 30<br>9       | 15                    | White metal post, red top, platform; 23.  | Visible 144°30'-147°30'.                          |
| 8500<br>A 1411.1          | --Rear, 102 meters 146° from front.   | 49° 23.4' N<br>1° 02.8' W | <b>Q.W.</b>   | 39<br>12      | 15                    | White mast, red top, red daymark; 36.     | Visible 144°30'-147°30'.                          |
| 8504<br>A 1408            | Grandcamp-les-Bains, E. jetty, head.  | 49° 23.5' N<br>1° 03.0' W | <b>Oc.(2)R.</b><br>period 6s<br>lt. 1s, ec. 1s<br>lt. 3s, ec. 1s  | 30<br>9       | 9                     | White column, red top; 26.                |   |
| 8508<br>A 1409            | -W. jetty, head.                      | 49° 23.5' N<br>1° 03.0' W | <b>Fl.G.</b><br>period 4s<br>fl. 1s, ec. 3s   | 30<br>9       | 6                     | White column, green top; 46.              |   |
| 8512<br>A 1406            | -Perre.                               | 49° 23.3' N<br>1° 02.5' W | <b>Oc.W.</b><br>period 4s<br>lt. 3s, ec. 1s   | 26<br>8       | 12                    | Green pylon, white hut; 23.               | Visible 083°-263°. In line with Aid No. 8492.     |
| 8516<br>A 1400            | Port en Bessin Range, front.          | 49° 21.0' N<br>0° 45.5' W | <b>Oc.(3)W.</b><br>period 12s<br>lt. 1.5s, ec. 1.5s<br>lt. 1.5s, ec. 1.5s<br>lt. 4.5s, ec. 1.5s           | 82<br>25      | 10                    | White pylon, green top; 26.               | Visible 069°-339°.                                |
| 8520<br>A 1400.1          | -Rear, 93 meters 204° from front.     | 49° 20.9' N<br>0° 45.6' W | <b>Oc.(3)W.</b><br>period 12s<br>lt. 1.5s, ec. 1.5s<br>lt. 1.5s, ec. 1.5s<br>lt. 4.5s, ec. 1.5s           | 139<br>42     | 11                    | Gray and white house; 39.                 | Visible 114°-294°. Synchronized with front.       |
| <b>PORT-EN-BESSIN:</b>    |                                       |                           |   |               |                       |   |   |
| 8524<br>A 1403            | -Jetee Est.                           | 49° 21.1' N<br>0° 45.4' W | <b>Oc.R.</b><br>period 4s<br>lt. 3s, ec. 1s   | 46<br>14      | 7                     | Red pylon; 33.                            |   |

| (1)<br>No.                | (2)<br>Name and Location                         | (3)<br>Position           | (4)<br>Characteristic   | (5)<br>Height | (6)<br>Range   | (7)<br>Structure                     | (8)<br>Remarks   |
|---------------------------|--|---------------------------|---|---------------|----------------|--------------------------------------|--|
| <b>FRANCE-NORTH COAST</b> |  |                           |   |               |                |                                      |  |
| 8528<br>A 1404            | -Jetee Ouest.                                    | 49° 21.2' N<br>0° 45.4' W | <b>Fl.W.G.</b><br>period 4s<br>fl. 1s, ec. 3s   | 46<br>14      | W. 10<br>G. 7  | Green pylon; 30.                     | G. 065°-114°30', W.-065°.  |
| 8532<br>A 1396            | <b>Pointe de Ver.</b>                            | 49° 20.4' N<br>0° 31.1' W | <b>Fl.(3)W.</b><br>period 15s<br>fl. 0.2s, ec. 2.8s<br>fl. 0.2s, ec. 2.8s<br>fl. 0.2s, ec. 8.8s         | 138<br>42     | <b>26</b>      | White tower, gray top; 52.           |  |
| 8540<br>A 1390            | -Jetee Est, head.                                | 49° 20.3' N<br>0° 27.4' W | <b>Oc.(2)R.</b><br>period 6s<br>lt. 1s, ec. 1s<br>lt. 3s, ec. 1s  | 29<br>9       | 7              | Brown pylon, red top; 39.            |  |
| 8544<br>A 1391            | -Jetee Ouest, submerged.                         | 49° 20.4' N<br>0° 27.4' W | <b>Iso.W.G.</b><br>period 4s  | 23<br>7       | W. 9<br>G. 6   | Brown pylon, dolphin, green top; 46. | W. 135°-235°, G.-135°.   |
| 8552<br>A 1377            | <b>Ouistreham</b> , main.                        | 49° 16.8' N<br>0° 14.9' W | <b>Oc.W.R.</b><br>period 4s<br>lt. 3s, ec. 1s   | 121<br>37     | W. 17<br>R. 13 | White round tower, red top; 125.     | R. 115°-151°, W.-115°. Storm signal lights are shown from tower.                       |
| 8556<br>A 1378            | -Saint Medard.                                   | 49° 18.0' N<br>0° 14.6' W | <b>Q.R.</b>   | 23<br>7       | 5              | White pylon, red top; 56.            | Q.R. shown 175 meters W. Fl.R. 4s 9m 3M and Fl.G. 4s 9m 3M mark channel 550 meters S.  |
| 8560<br>A 1379            | -Jetee Ouest, head.                              | 49° 17.6' N<br>0° 14.8' W | <b>Fl.(2)G.</b><br>period 6s<br>fl. 1s, ec. 1s<br>fl. 1s, ec. 3s  | 36<br>11      | 3              | White pipe, green top, platform; 52. | <b>Radar reflector.</b>  |
| 8568<br>A 1381            | -E. jetty, head, range, front.                   | 49° 17.1' N<br>0° 14.8' W | <b>Oc.(3+1)R.</b><br>period 12s<br>lt. 3s, ec. 1s<br>lt. 3s, ec. 1s<br>lt. 1s, ec. 1s<br>lt. 1s, ec. 1s | 36<br>11      | <b>17</b>      | White metal post, red top; 36.       | Intensified 183°30'-186°30'. Q.R. 30 meters W. Shown 24 hours. <b>Radar reflector.</b> |
| 8572<br>A 1381.1          | --Rear, 610 meters 184°30' from front.           | 49° 16.8' N<br>0° 14.8' W | <b>Oc.(3+1)R.</b><br>period 12s<br>lt. 3s, ec. 1s<br>lt. 3s, ec. 1s<br>lt. 1s, ec. 1s<br>lt. 1s, ec. 1s | 98<br>30      | <b>17</b>      | Tripod; 82.                          | Intensified 183°30'-186°30'. Synchronized with front. Shown 24 hours.                  |
| <b>TROUVILLE:</b>         |  |                           |   |               |                |                                      |  |
| 8584<br>A 1284            | -Jetee Ouest, head.                              | 49° 22.0' N<br>0° 04.4' E | <b>Q.G.</b>   | 36<br>11      | 9              | White metal tower, green top; 33.    |  |
| 8588<br>A 1282.2          | -Jetee Est, submerged, head.                     | 49° 22.2' N<br>0° 04.3' E | <b>Fl.(4)W.R.</b><br>period 12s<br>fl. 1s, ec. 1s<br>fl. 1s, ec. 1s<br>fl. 1s, ec. 1s<br>fl. 1s, ec. 5s | 26<br>8       | W. 7<br>R. 4   | White pylon, red top; 49.            | W. 131°-175°, R.-131°.   |
| 8592<br>A 1282            | -Jetee Ouest.                                    | 49° 22.4' N<br>0° 04.1' E | <b>Fl.W.G.</b><br>period 4s<br>fl. 1s, ec. 3s   | 33<br>10      | W. 9<br>G. 6   | Black pylon, green top; 52.          | W. 005°-176°, G.-005°.   |
| 8596<br>A 1285            | -Nouveau mole, 0.3 meters SE. of jetty, W. head. | 49° 22.1' N<br>0° 04.3' E | <b>Iso.G.</b><br>period 4s  | 29<br>9       | 5              | Green mast; 23.                      |  |
| 8600<br>A 1283            | -Entrance Range, front.                          | 49° 22.0' N<br>0° 04.5' E | <b>Oc.R.</b><br>period 4s<br>lt. 3s, ec. 1s   | 36<br>11      | 12             | White metal tower; red top; 36.      | Visible 330°-150°.   |
| 8604<br>A 1283.1          | --Rear, 217 meters 148° from front, La Cahotte.  | 49° 21.9' N<br>0° 04.6' E | <b>Oc.R.</b><br>period 4s   | 56<br>17      | 10             | White pylon, red top; 49.            | Visible 120°-170°. Synchronized with front.  |

| (1)<br>No.                | (2)<br>Name and Location                          | (3)<br>Position           | (4)<br>Characteristic   | (5)<br>Height     | (6)<br>Range            | (7)<br>Structure  | (8)<br>Remarks  |
|---------------------------|---|---------------------------|---|-------------------|-------------------------|---|---|
| <b>FRANCE-NORTH COAST</b> |   |                           |   |                   |                         |   |   |
| SEINE ESTUARY:            |   |                           |   |                   |                         |   |   |
| 8608                      | -LHA.   | 49° 31.4' N<br>0° 09.9' W | <b>Mo.(A)W.</b><br>period 12s   | 20<br><b>6</b>    | 6                       | SAFE WATER<br>RW, superbuoy, topmark; 23.   | <b>AIS</b> (MMSI No 992271201).   |
|                           | -RACON  |                           | (••••••••)  |                   | 8                       |   | (3 & 10cm).<br>RACON signal appears as a<br>series of 8 dots or 8<br>groups of dots.        |
| 8612<br>A 1286            | --Digue de Ratier A, W.<br>extremity of new dike. | 49° 25.9' N<br>0° 06.6' E | <b>V.Q.W.</b>   | 33<br><b>10</b>   | 4                       | Metal column, shelter, black<br>platform, two triangular<br>topmarks points up; 33. | <b>Radar reflector.</b>   |
| -Honfleur:                |   |                           |   |                   |                         |   |   |
| 8616<br>A 1290            | -- <b>Falaise des Fonds.</b>                      | 49° 25.5' N<br>0° 12.9' E | <b>Fl.(3)W.R.G.</b><br>period 12s<br>fl. 1s, ec. 1.5s<br>fl. 1s, ec. 1.5s<br>fl. 1s, ec. 6s | 49<br><b>15</b>   | W. 17<br>R. 13<br>G. 13 | White tower, green top; 59.   | G. 040°-080°, R.-084°, G.-<br>100°, W.-109°, R.-162°,<br>G.-260°.                           |
| 8618<br>A 1289            | -Digue de Ratier.                                 | 49° 25.7' N<br>0° 12.7' E | <b>V.Q.(9)W.</b><br>period 10s  | 26<br><b>8</b>    | 5                       | Pylon, two triangular topmarks<br>points together.                                  |   |
| 8620<br>A 1296            | --Digue Ouest, head.                              | 49° 25.7' N<br>0° 13.8' E | <b>Q.G.</b>   | 32<br><b>10</b>   | 6                       | Green pylon; 26.  |   |
| 8628<br>A 1256            | - <b>Cap de la Heve.</b>                          | 49° 30.7' N<br>0° 04.2' E | <b>Fl.W.</b><br>period 5s<br>fl. 0.1s, ec. 4.9s   | 404<br><b>123</b> | 24                      | White octagonal tower, red top;<br>105.   | Visible 225°-196°.  |
| LE HAVRE:                 |   |                           |   |                   |                         |   |   |
| 8632<br>A 1260            | - <b>Munier Quai d'Escale</b> Range,<br>front.    | 49° 28.9' N<br>0° 06.5' E | <b>F.W.</b>   | 118<br><b>36</b>  | 25                      | Gray tower, green top; 115.   | Intensified 106°-108°.  |
| 8636<br>A 1260.1          | --Rear, 1370 meters 106°48'<br>from front.        | 49° 28.7' N<br>0° 07.6' E | <b>F.W.</b>   | 256<br><b>78</b>  | 25                      | Gray tower, green top; 253.   | Intensified 106°-108°.<br><b>Radar reflector.</b>   |
| 8648<br>A 1262            | - <b>Digue Nord</b> , outer head.                 | 49° 29.2' N<br>0° 05.4' E | <b>Fl.R.</b><br>period 5s<br>fl. 0.1s, ec. 4.9s   | 49<br><b>15</b>   | 21                      | White tower, red top; 49.   | <b>Horn:</b> 1 bl. ev. 15s (bl. 3s, si.<br>12s).  |
| 8652<br>A 1266            | -Yacht basin.                                     | 49° 29.3' N<br>0° 05.6' E | <b>Fl.(2)G.</b><br>period 6s  | 16<br><b>5</b>    | 2                       | White post, green top; 10.  |   |
| 8656<br>A 1264            | -Digue Sud, outer head.                           | 49° 29.1' N<br>0° 05.4' E | <b>V.Q.(3)G.</b><br>period 2s   | 49<br><b>15</b>   | 11                      | White tower, green top; 46.   |   |
| 8660<br>A 1274            | --N. mole, SW. spur, Bassin<br>Ducrocq.           | 49° 28.8' N<br>0° 06.3' E | <b>Oc.(2)R.</b><br>period 6s<br>lt. 1s, ec. 1s<br>lt. 3s, ec. 1s                            | 23<br><b>7</b>    | 6                       | White structure, red top; 16.   | <b>Horn:</b> 2 bl. ev. 20s (bl. 3s, si.<br>3s, bl. 3s, si. 11s).<br><b>Radar reflector.</b> |
| 8664<br>A 1274.4          | --S. mole.  | 49° 28.8' N<br>0° 06.2' E | <b>Oc.(2)G.</b><br>period 6s<br>lt. 1s, ec. 1s<br>lt. 3s, ec. 1s                            | 23<br><b>7</b>    | 6                       | White structure, green top; 16.   | <b>Radar reflector.</b>   |
| 8668<br>A 1276            | --Oil Basin No 1 Range, front.                    | 49° 28.4' N<br>0° 06.8' E | <b>F.G.</b>   |                   |                         |   | Visible 145°6'-161°6'.  |
| 8672<br>A 1276.1          | ---Rear, 140 meters 153°06'<br>from front.        | 49° 28.3' N<br>0° 06.9' E | <b>F.G.</b>   |                   |                         |   | Visible 145°6'-161°6'.  |
| 8676<br>A 1277            | --Oil Basin No 2 Range, front.                    | 49° 28.3' N<br>0° 07.1' E | <b>F.G.</b>   |                   |                         |   | Visible 146°-162°.  |
| 8680<br>A 1277.1          | ---Rear, 60 meters 153°42'<br>from front.         | 49° 28.2' N<br>0° 07.2' E | <b>F.G.</b>   |                   |                         |   | Visible 146°-162°.  |
| 8684<br>A 1278            | --S. side of basin, Range, front.                 | 49° 28.2' N<br>0° 07.2' E | <b>F.R.</b>   | 23<br><b>7</b>    |                         |   | Visible 160°48'-176°48'.  |
| 8688<br>A 1278.1          | ---Rear, about 60 meters<br>168°48' from front.   | 49° 28.2' N<br>0° 07.2' E | <b>F.R.</b>   | 26<br><b>8</b>    |                         |   | Visible 160°48'-176°48'.  |

| (1)<br>No.                | (2)<br>Name and Location                           | (3)<br>Position           | (4)<br>Characteristic  | (5)<br>Height | (6)<br>Range            | (7)<br>Structure                      | (8)<br>Remarks  |
|---------------------------|--|---------------------------|--|---------------|-------------------------|---------------------------------------|---|
| <b>FRANCE-NORTH COAST</b> |  |                           |  |               |                         |                                       |   |
| 8692<br>A 1279            | --Oil Basin No 3 Range, front.                     | 49° 28.2' N<br>0° 07.5' E | <b>F.G.</b>  |               | 26<br>8                 | 23.                                   | Visible 132°48'-148°48'.  |
| 8696<br>A 1279.1          | --Rear, 46 meters 140°48' from front.              | 49° 28.2' N<br>0° 07.6' E | <b>F.G.</b>  |               | 35<br>11                | 30.                                   | Visible 132°48'-148°48'.  |
| 8700<br>A 1274.6          | --Dir. Lt.   | 49° 28.4' N<br>0° 06.9' E | <b>Dir.W.R.G.</b><br>period 4s<br>fl. 3s, ec. 1s                     | 49<br>15      | W. 11<br>R. 10<br>G. 10 | White support, green top; 43.         | Oc.G. 183°-190°, Oc.W.-194°, Oc.R.-201°. Shown 24 hours.                  |
| 8702<br>A 1280.7          | --Digue Charles Laroch.                            | 49° 28.1' N<br>0° 08.3' E | <b>Dir.W.R.G.</b><br>period 4s<br>fl. 3s, ec. 1s                     | 26<br>8       | W. 12<br>R. 11<br>G. 11 | White pyramidal tower, green top; 20. | Oc.G. 118°-119°, Oc.W.-120°, Oc.R.-121°. Shown 24 hours.                  |
| <b>ANTIFER TERMINAL:</b>  |  |                           |  |               |                         |                                       |   |
| 8704<br>A 1250.8          | -Harbor Approach.                                  | 49° 39.5' N<br>0° 09.2' E | <b>Dir.Oc.W.R.G.</b><br>period 4s<br>lt. 3s, ec. 1s                  | 79<br>24      | W. 15<br>R. 13<br>G. 13 | White pylon, black top; 66.           | G. 068°18'-078°18', W.-088°18', R.-098°18'.                               |
| 8708<br>A 1251.84         | -Maurice Thieullent Digue (main breakwater), head. | 49° 39.7' N<br>0° 07.1' E | <b>Q.R.</b>  | 65<br>20      | 7                       | White structure, red bands; 56.       |   |
| 8712<br>A 1251.62         | --NW. angle.                                       | 49° 40.2' N<br>0° 07.4' E | <b>F.Vi.</b>   | 49<br>15      | 5                       | White pylon, purple top; 26.          |   |
| 8716<br>A 1251.6          | --NE. angle.                                       | 49° 40.2' N<br>0° 08.2' E | <b>F.Vi.</b>   | 49<br>15      | 5                       | White pylon, purple top; 26.          |   |
| 8720<br>A 1251.7          | --Berth 2.   | 49° 40.2' N<br>0° 08.1' E | <b>Oc.(2)W.R.G.</b><br>period 6s<br>lt. 1s, ec. 1s<br>lt. 3s, ec. 1s | 79<br>24      | W. 15<br>R. 13<br>G. 13 | White pylon, red top; 56.             | G. 334°30'-346°30', W.-358°30', R.-004°30'.                               |
| 8724<br>A 1251.8          | --Berth 3.   | 49° 40.2' N<br>0° 07.7' E | <b>Oc.W.R.G.</b><br>period 4s<br>lt. 3s, ec. 1s                      | 69<br>21      | W. 15<br>R. 13<br>G. 13 | White pylon, red top; 56.             | R. 352°30'-358°30', W.-010°30', G.-022°30'.                               |
| 8727<br>A 1250.2          | <b>Antifer</b> approach range, front.              | 49° 38.3' N<br>0° 09.1' E | <b>Oc.W.</b><br>period 4s<br>lt. 3s, ec. 1s                          | 371<br>113    | 22                      | White pylon, green top; 23.           | Visible 127°-128°. Dir.F.W. (occas.) 33M, visible 126°30'-128°30' by day. |
| 8727.1<br>A 1250.21       | -Rear, 430 meters 127°30' from front.              | 49° 38.2' N<br>0° 09.4' E | <b>Oc.W.</b><br>period 4s  | 443<br>135    | 22                      | White pylon, green top; 43.           | Visible 127°-128°. Dir.F.W. (occas.) 33M, visible 126°30'-128°30' by day. |
| <b>CHENAL D'ANTIFER:</b>  |  |                           |  |               |                         |                                       |   |
| 8728<br>A 1251            | -Bassin de Caux, Mole Ouest, head.                 | 49° 39.0' N<br>0° 08.8' E | <b>Fl.R.</b><br>period 4s<br>fl. 1s, ec. 3s                          | 42<br>13      | 5                       | White mast, red top; 26.              |   |
| 8732<br>A 1251.4          | --Jeteo Est, head.                                 | 49° 39.0' N<br>0° 08.9' E | <b>Fl.G.</b><br>period 4s<br>fl. 1s, ec. 3s                          | 42<br>13      | 5                       | White mast, green top; 26.            |   |
| 8736<br>A 1251.2          | --Leading, 018°30'.                                | 49° 39.2' N<br>0° 09.0' E | <b>Oc.W.R.G.</b><br>period 4s<br>lt. 3s, ec. 1s                      | 36<br>11      | W. 15<br>R. 11<br>G. 11 | Pylon; 16.                            | G. 006°30'-017°30', W.-019°30', R.-036°30'.                               |
| 8740<br>A 1250            | <b>Cap d'Antifer.</b>                              | 49° 41.0' N<br>0° 09.9' E | <b>Fl.W.</b><br>period 20s<br>fl. 0.5s, ec. 19.5s                    | 420<br>128    | 29                      | Gray octagonal tower, green top; 125. | Visible 021°-222°.  |
| 8744<br>A 1248            | Yport Range, front.                                | 49° 44.4' N<br>0° 18.5' E | <b>Oc.W.</b><br>period 4s<br>lt. 3s, ec. 1s                          | 36<br>11      |                         | White post, green top; 23.            |   |
| 8748<br>A 1248.1          | -Rear, 30 meters 166° from front.                  | 49° 44.4' N<br>0° 18.6' E | <b>Oc.W.</b><br>period 4s<br>lt. 3s, ec. 1s                          | 46<br>14      |                         | White pylon, green top; 20.           |   |

| (1)<br>No.                | (2)<br>Name and Location                    | (3)<br>Position           | (4)<br>Characteristic   | (5)<br>Height | (6)<br>Range   | (7)<br>Structure                                 | (8)<br>Remarks                  |
|---------------------------|---|---------------------------|---|---------------|----------------|--|---------------------------------|
| <b>FRANCE-NORTH COAST</b> |   |                           |   |               |                |  |                                 |
| 8750<br>A 1247            | Measuring mast.                             | 49° 50.8' N<br>0° 13.1' E | <b>Mo.(U)W.</b><br>period 15s   | 43<br>13      | 10             | Gray pylon on yellow platform;<br>197.           | <b>AIS</b> (MMSI No 992271122). |
|                           | AVIATION LIGHT.                             |                           | <b>F.R.</b>   | 118<br>36     |                |  |                                 |
|                           | AVIATION LIGHT.                             |                           | <b>U.Q.R.</b>   | 197<br>60     |                |  | U.Q.W. shown by day.            |
| 8752<br>A 1244            | <b>Fecamp.</b>                              | 49° 45.9' N<br>0° 21.8' E | <b>Fl.(2)W.</b><br>period 10s<br>fl. 0.3s, ec. 2.2s<br>fl. 0.3s, ec. 7.2s                               | 49<br>15      | 16             | Gray tower, red top; 46.                         |                                 |
| 8755<br>A 1245            | Pilot Range, front.                         | 49° 46.0' N<br>0° 21.7' E | <b>Q.R.</b>   | 33<br>10      | 4              | White metal post, red top, round<br>daymark; 23. |                                 |
| 8756<br>A 1246            | -Rear, about 235 meters 082°<br>from front. | 49° 45.9' N<br>0° 21.9' E | <b>Q.G.</b>   | 46<br>14      | 9              | Gray tower, green top, 33.                       | Visible 242°-217°.              |
| 8760<br>A 1238            | St. Valery en Caux.                         | 49° 52.4' N<br>0° 42.5' E | <b>Fl.(2)G.</b><br>period 6s<br>fl. 1s, ec. 1s<br>fl. 1s, ec. 3s  | 43<br>13      | 11             | Green truncated conical tower;<br>39.            |                                 |
| 8764<br>A 1239            | -Jetee Est, head.                           | 49° 52.4' N<br>0° 42.7' E | <b>Fl.(2)R.</b><br>period 6s<br>fl. 1s, ec. 1s<br>fl. 1s, ec. 3s  | 26<br>8       | 4              | White mast, red top; 20.                         |                                 |
| 8768<br>A 1234            | <b>Pointe d'Ailly.</b>                      | 49° 55.0' N<br>0° 57.5' E | <b>Fl.(3)W.</b><br>period 20s<br>fl. 0.1s, ec. 3.9s<br>fl. 0.1s, ec. 3.9s<br>fl. 0.1s, ec. 11.9s        | 312<br>95     | 31             | White square tower, green top;<br>79.            |                                 |
| DIEPPE:                   |   |                           |   |               |                |  |                                 |
| 8776<br>A 1230            | -Jetee Ouest.                               | 49° 56.3' N<br>1° 05.0' E | <b>Iso.G.</b><br>period 4s  | 36<br>11      | 8              | White tower, green top; 23.                      |                                 |
| 8782<br>A 1233            | -La Morgue.                                 | 49° 55.9' N<br>1° 05.2' E | <b>Q.R.</b>   | 39<br>12      | 3              | Red column; 26.                                  |                                 |
| 8784<br>A 1232.1          | -Falaise du Pollet.                         | 49° 55.9' N<br>1° 05.3' E | <b>Q.W.</b>   | 115<br>35     | 11             | Red and white structure; 13.                     | Visible 105°30'-170°30'.        |
| 8788<br>A 1228            | -Jetee Est, head.                           | 49° 56.2' N<br>1° 05.1' E | <b>Iso.R.</b><br>period 4s  | 39<br>12      | 8              | White metal tower, red top; 33.                  |                                 |
| LE TREPORT:               |   |                           |   |               |                |  |                                 |
| 8792<br>A 1222            | <b>-Jetee Ouest.</b>                        | 50° 03.9' N<br>1° 22.1' E | <b>Fl.(2)G.</b><br>period 10s<br>fl. 0.4s, ec. 2.1s<br>fl. 0.4s, ec. 7.1s                               | 49<br>15      | 20             | White tower, green top; 46.                      |                                 |
| 8796<br>A 1224            | -Jetee Est, head.                           | 50° 03.9' N<br>1° 22.2' E | <b>Oc.R.</b><br>period 4s<br>lt. 3s, ec. 1s   | 26<br>8       | 6              | White column, red top; 23.                       |                                 |
| 8797<br>A 1226            | -Jetty, W. head.                            | 49° 58.8' N<br>1° 12.2' E | <b>Fl.(4)Y.</b><br>period 15s   |               |                |  |                                 |
| 8800<br>A 1220            | <b>Ault.</b>                                | 50° 06.3' N<br>1° 27.2' E | <b>Oc.(4)W.R.</b><br>period 12s<br>lt. 1s, ec. 1s<br>lt. 1s, ec. 1s<br>lt. 1s, ec. 1s<br>lt. 5s, ec. 1s | 312<br>95     | W. 15<br>R. 11 | White truncated conical tower,<br>red top; 92.   | W. 040°-175°, R.-220°.          |
| BAIE DE SOMME:            |   |                           |   |               |                |  |                                 |
| 8804<br>A 1208            | <b>-Cayeux-sur-Mer.</b>                     | 50° 11.6' N<br>1° 30.7' E | <b>Fl.R.</b><br>period 5s<br>fl. 0.3s, ec. 4.7s   | 105<br>32     | 22             | White tower, red top; 105.                       |                                 |

| (1)<br>No.                | (2)<br>Name and Location                     | (3)<br>Position           | (4)<br>Characteristic   | (5)<br>Height | (6)<br>Range          | (7)<br>Structure  | (8)<br>Remarks  |
|---------------------------|--|---------------------------|---|---------------|-----------------------|---|---|
| <b>FRANCE-NORTH COAST</b> |  |                           |   |               |                       |   |   |
| 8808<br>A 1210            | -Le Hourdel, S. side of entrance.            | 50° 12.9' N<br>1° 34.0' E | <b>Oc.(3)W.G.</b><br>period 12s<br>lt. 1.5s, ec. 1.5s<br>lt. 1.5s, ec. 1.5s<br>lt. 4.5s, ec. 1.5s | 62<br>19      | W. 12<br>G. 9         | White tower, green top; 59.                                   | W. 053°-248°, G.-323°.<br><b>Horn:</b> 3 bl. ev. 30s (bl. 2s, si. 3s, bl. 2s, si. 3s, bl. 2s, si. 18s). |
| 8812<br>A 1211            | -Le Crotoy, N. side of entrance.             | 50° 12.9' N<br>1° 37.4' E | <b>Oc.(2)R.</b><br>period 6s<br>lt. 1s, ec. 1s<br>lt. 3s, ec. 1s                                  | 62<br>19      | 8                     | White pyramidal pylon; 36.                                    | Visible 285°-135°.  |
| 8816<br>A 1215            | -St. Valery sur Somme, extremity of seawall. | 50° 12.3' N<br>1° 35.9' E | <b>Fl.G.</b><br>period 2.5s   | 7<br>2        | 1                     | STARBOARD (A)<br>G, pylon, topmark; 20.                       | <b>Radar reflector.</b>   |
| 8820<br>A 1214            | --S. side of entrance.                       | 50° 11.5' N<br>1° 37.6' E | <b>Iso.G.</b><br>period 4s  | 29<br>9       | 9                     | White pylon, green top; 23.                                   | Visible 347°-222°.  |
| 8824<br>A 1216            | --Seaward dike, head.                        | 50° 11.2' N<br>1° 38.6' E | <b>Fl.R.</b><br>period 4s<br>fl. 1s, ec. 3s   | 30<br>9       | 9                     | White pylon, red top; 21.                                     | Visible 000°-250°.  |
| 8828<br>A 1202            | <b>Berck Plage.</b>                          | 50° 23.9' N<br>1° 33.6' E | <b>Fl.W.</b><br>period 5s<br>fl. 0.4s, ec. 4.6s   | 144<br>44     | 23                    | White tower, red bands, green top; 148.                       |   |
| 8832<br>A 1196            | <b>Le Touquet.</b>                           | 50° 31.4' N<br>1° 35.5' E | <b>Fl.(2)W.</b><br>period 10s<br>fl. 0.5s, ec. 2s<br>fl. 0.5s, ec. 7s                             | 177<br>54     | 25                    | Orange octagonal tower, brown band, white and green top; 184. |   |
| 8840<br>A 1194            | Camiers.                                     | 50° 32.9' N<br>1° 36.4' E | <b>Oc.(2)W.R.G.</b><br>period 6s<br>lt. 1s, ec. 1s<br>lt. 3s, ec. 1s                              | 56<br>17      | W. 10<br>R. 7<br>G. 7 | Red pylon; 36.  | G. 015°-090°, W.-105°, R.-141°.   |
| 8844<br>A 1190            | <b>Cap d'Alprech.</b>                        | 50° 41.9' N<br>1° 33.8' E | <b>Fl.(3)W.</b><br>period 15s<br>fl. 0.1s, ec. 2.9s<br>fl. 0.1s, ec. 2.9s<br>fl. 0.1s, ec. 8.9s   | 203<br>62     | 23                    | White tower, black top; 56.                                   |   |
| BOULOGNE:                 |  |                           |   |               |                       |   |   |
| 8856<br>A 1168            | -Digue Nord, head.                           | 50° 44.7' N<br>1° 34.2' E | <b>Fl.(2)R.</b><br>period 6s<br>fl. 1s, ec. 1s<br>fl. 1s, ec. 3s                                  | 33<br>10      | 7                     | Red metal tower; 13.  |   |
| 8860<br>A 1170            | <b>-Digue Sud Carnot.</b>                    | 50° 44.4' N<br>1° 34.1' E | <b>Fl.(2+1)W.</b><br>period 15s<br>fl. 0.1s, ec. 2.5s<br>fl. 0.1s, ec. 6.1s<br>fl. 0.1s, ec. 6.1s | 82<br>25      | 19                    | White tower, green top; 72.                                   | Reserve light.  |
| 8864<br>A 1172            | -Ro Ro Berths Range, front.                  | 50° 43.6' N<br>1° 34.0' E | <b>F.G.</b>   | 53<br>16      | 8                     | Dolphin; 20.  | Visible 107°-287°.  |
| 8868<br>A 1172.1          | --Rear, 488 meters 197° from front.          | 50° 43.3' N<br>1° 33.9' E | <b>F.R.</b>   | 75<br>23      | 13                    | Red post, white band; 49.                                     | Intensified 188°-206°.  |



# Section 8

## North Sea-France, Belgium and The Netherlands Including Westerschelde

| (1)<br>No.       | (2)<br>Name and Location  | (3)<br>Position           | (4)<br>Characteristic   | (5)<br>Height | (6)<br>Range | (7)<br>Structure  | (8)<br>Remarks   |
|------------------|---|---------------------------|---|---------------|--------------|---|--|
| FRANCE-NORTH SEA |   |                           |   |               |              |   |  |
| BOULOGNE:        |   |                           |   |               |              |   |  |
| 8872<br>A 1174   | -Darse Sarraz-Bournet.  | 50° 43.6' N<br>1° 34.7' E | <b>Oc.(2)R.</b><br>period 6s<br>lt. 1s, ec. 1s<br>lt. 3s, ec. 1s  | 26<br>8       | 6            | White pylon, red top; 23.   |  |
| 8876<br>A 1175   | --W. side of entrance.  | 50° 43.7' N<br>1° 34.5' E | <b>Iso.G.</b><br>period 4s  | 26<br>8       | 5            | White pylon, green top; 23.   |  |
| 8880<br>A 1182   | -Gare Maritime Range, front.  | 50° 43.7' N<br>1° 35.7' E | <b>F.G.</b>   | 13<br>4       | 5            | Gray octagonal pylon, green top,<br>lighted triangular daymark<br>point down; 30. | Visible 033°-213°.   |
| 8884<br>A 1182.1 | --Rear, center of Quai<br>Gambetta, 560 meters<br>122°24' from front. | 50° 43.5' N<br>1° 36.1' E | <b>F.R.</b>   | 144<br>44     | 11           | Gray building, red top; 141.  | Intensified 113°-133°.   |
| 8888<br>A 1180   | -Jetee SW. head.  | 50° 43.9' N<br>1° 35.1' E | <b>Q.G.</b>   | 56<br>17      | 5            | White column, green top; 43.  |  |
| 8892<br>A 1178   | -Jetee NE. head.  | 50° 43.9' N<br>1° 35.2' E | <b>Q.R.</b>   | 36<br>11      | 7            | Red metal tower; 33.  |  |
| 8896<br>A 1166   | <b>Cap Gris Nez.</b>  | 50° 52.1' N<br>1° 35.0' E | <b>Fl.W.</b><br>period 5s<br>fl. 0.4s, ec. 4.6s   | 236<br>72     | 29           | White tower, black top; 102.  | Visible 005°-232°.   |
| 8900<br>A 1160   | Sangatte.   | 50° 57.2' N<br>1° 46.5' E | <b>Oc.W.G.</b><br>period 4s<br>lt. 3s, ec. 1s   | 43<br>13      | W. 8<br>G. 5 | White pylon, green top; 26.   | G. 065°-089°, W.-152°, G.-<br>245°.  |
| CALAIS:          |   |                           |   |               |              |   |  |
| 8904<br>A 1144   | <b>-Calais.</b>   | 50° 57.7' N<br>1° 51.2' E | <b>Fl.(4)W.</b><br>period 15s<br>fl. 0.4s, ec. 2.1s<br>fl. 0.4s, ec. 2.1s<br>fl. 0.4s, ec. 2.1s<br>fl. 0.4s, ec. 7.1s | 194<br>59     | 22           | White octagonal tower, black top;<br>167.   | Visible 073°-260°.   |
| 8908<br>A 1146   | <b>-Jetee Est.</b>  | 50° 58.4' N<br>1° 50.5' E | <b>Fl.(2)R.</b><br>period 6s<br>fl. 0.1s, ec. 1.4s<br>fl. 0.1s, ec. 4.4s  | 39<br>12      | 17           | Gray tower, red top; 33.  | 2 Fl.(2)W. 6s (vert.) shown in<br>fog by request.<br><b>Horn:</b> 2 bl. ev. 40s (bl. 2s, si.<br>3s, bl. 2s, si. 33s).<br><b>Radar reflector.</b> |
| 8912<br>A 1148   | -Jetee Ouest, head.   | 50° 58.2' N<br>1° 50.4' E | <b>Iso.G.</b><br>period 3s  | 39<br>12      | 9            | Metal tower, green top; 39.   | Fl.W. 5s shown in fog by<br>request.<br><b>Bell:</b> 1 str. ev. 5s.  |
| 8913<br>A 1157   | -Quai de Maree.   | 50° 58.1' N<br>1° 50.9' E | <b>L.Fl.(4)W.</b><br>period 30s   |               |              | Gray post; 26.  | <b>Horn:</b> 4 bl. ev. 30s (bl. 3s, si.<br>3s, bl. 3s, si. 3s, bl. 3s, si.<br>3s, bl. 3s, si. 9s).   |
| GRAVELINES:      |   |                           |   |               |              |   |  |
| 8924<br>A 1132.2 | -Jetee Est, head.   | 51° 00.9' N<br>2° 05.6' E | <b>Fl.(3)R.</b><br>period 12s<br>fl. 1s, ec. 1.5s<br>fl. 1s, ec. 1.5s<br>fl. 1s, ec. 6s                               | 30<br>9       | 4            | Gray and yellow tower, red top;<br>16.  | V.Q.W. 6m 2M marks head of<br>submerged jetty close<br>NNW.  |
| 8928<br>A 1132   | -Jetee Ouest, head.   | 51° 00.9' N<br>2° 05.5' E | <b>Fl.(2)W.G.</b><br>period 6s<br>fl. 1s, ec. 1s<br>fl. 1s, ec. 3s  | 30<br>9       | 4            | Yellow and gray tower, green top;<br>49.  | W. 085°-224°, G.-085°.   |

| (1)<br>No.                       | (2)<br>Name and Location                        | (3)<br>Position           | (4)<br>Characteristic   | (5)<br>Height | (6)<br>Range            | (7)<br>Structure                          | (8)<br>Remarks   |
|----------------------------------|---|---------------------------|---|---------------|-------------------------|---|--|
| <b>FRANCE-NORTH SEA</b>          |   |                           |   |               |                         |   |  |
| LE SANDETTIE:                    |   |                           |   |               |                         |   |  |
| 8932<br>A 0994                   | <b>-SANDETTIE LIGHTSHIP.</b>                    | 51° 09.4' N<br>1° 47.1' E | <b>Fl.W.</b><br>period 5s<br>fl. 0.5s, ec. 4.5s   |               | 15                      | Red hull, light tower amidships;<br>39.   | Shown 24 hours.<br><b>AIS</b> (MMSI No 992351029).<br><b>Horn:</b> 1 bl. ev. 30s (bl. 3s, si.<br>27s). |
|                                  | -RACON  |                           | <b>T(-)</b>   |               | 10                      |   | (3 & 10cm).  |
| NOUVEAU PORT OUEST DE DUNKERQUE: |   |                           |   |               |                         |   |  |
| 8948<br>A 1126                   | <b>-Avant-port</b> Range, front.                | 51° 01.7' N<br>2° 11.9' E | <b>Dir.Iso.W.</b><br>period 4s  | 49<br>15      | 17                      | White column, green top; 29.              | Visible 116°-124°.<br><b>Radar reflector.</b>  |
| 8952<br>A 1126.1                 | --Rear, 600 meters 120° from<br>front.          | 51° 01.5' N<br>2° 12.4' E | <b>Dir.Iso.W.</b><br>period 4s  | 95<br>29      | 17                      | White column, green top; 63.              | Visible 116°-124°.   |
| 8956<br>A 1127                   | -Jetee du Dyck, head.                           | 51° 02.3' N<br>2° 09.8' E | <b>Fl.(4)G.</b><br>period 15s<br>fl. 0.5s, ec. 2s<br>fl. 0.5s, ec. 2s<br>fl. 0.5s, ec. 2s<br>fl. 0.5s, ec. 7s | 79<br>24      | 10                      | White column, green top; 75.              | Various lights are shown in the<br>inside of the port.   |
| 8960<br>A 1127.4                 | <b>-Jetee du Clipon.</b>                        | 51° 02.6' N<br>2° 09.8' E | <b>Fl.(4)R.</b><br>period 15s<br>fl. 1s, ec. 1.5s<br>fl. 1s, ec. 1.5s<br>fl. 1s, ec. 1.5s<br>fl. 1s, ec. 6.5s | 82<br>25      | 10                      | White cylindrical column, red top;<br>75. | Visible 278°-243°.   |
|                                  | -Auxiliary.                                     |                           | <b>Fl.(4)W.</b><br>period 15s   | 75<br>23      | 20                      |   | Shown in fog.  |
| 8961<br>A 1129                   | -Atlantic Basin, E. jetty.                      | 51° 01.4' N<br>2° 10.5' E | <b>Iso.R.</b><br>period 4s  | 49<br>15      | 6                       | Metal post, hut; 13.                      |  |
| 8962<br>A 1129.2                 | --W. jetty.                                     | 51° 01.3' N<br>2° 10.2' E | <b>Iso.G.</b><br>period 4s  | 49<br>15      | 6                       | Metal post, hut; 13.                      |  |
| 8963<br>A 1127.6                 | -167°.  | 51° 00.0' N<br>2° 10.8' E | <b>Dir.W.R.G.</b><br>period 4s  | 42<br>13      | W. 14<br>R. 11<br>G. 11 | Metal post, hut; 16.                      | Iso.G. 162°-166°, Iso.W.-<br>168°, Iso.R.-172°.  |
| DUNKERQUE:                       |   |                           |   |               |                         |   |  |
| 8964<br>A 1114                   | <b>-Dunkerque.</b>                              | 51° 02.9' N<br>2° 21.9' E | <b>Fl.(2)W.</b><br>period 10s<br>fl. 0.1s, ec. 2.4s<br>fl. 0.1s, ec. 7.4s                                     | 194<br>59     | 26                      | White tower, black top; 184.              |  |
| 8968<br>A 1114.9                 | -Range, front, 640 meters 05°<br>from rear.     | 51° 03.1' N<br>2° 21.1' E | <b>F.Vi.</b>  | 33<br>10      | 3                       | White column, red top; 20.                | Intensified 183°-187°.   |
| 8972<br>A 1115                   | --Common rear.                                  | 51° 02.8' N<br>2° 21.1' E | <b>F.Vi.</b>  | 79<br>24      | 4                       | Gray pylon; 98.                           | Intensified 183°42'-186°12'<br>and 178°12'-180°42'.  |
| 8976<br>A 1115.1                 | -Range, front, 660 meters<br>359°30' from rear. | 51° 03.1' N<br>2° 21.1' E | <b>F.Vi.</b>  | 33<br>10      | 3                       | White column, green top; 20.              | Intensified 177°30'-181°30'.   |
| 8979<br>A 1120                   | -Chenal de Trystam Range,<br>front.             | 51° 03.0' N<br>2° 22.0' E | <b>Q.W.</b>   | 23<br>7       | 11                      | White column, red top; 16.                | Visible 122°-152°.   |
| 8979.5<br>A 1120.1               | --Rear, 114 meters 137°30'<br>from front.       | 51° 02.9' N<br>2° 22.1' E | <b>Q.W.</b>   | 33<br>10      | 11                      | White column, red top; 26.                | Visible 122°-152°.<br>Synchronized with front.   |
| 8980<br>A 1122                   | -Jetee Watier, head.                            | 51° 03.2' N<br>2° 21.2' E | <b>Fl.(3)G.</b><br>period 12s<br>fl. 1s, ec. 1.5s<br>fl. 1s, ec. 1.5s<br>fl. 1s, ec. 6s                       | 36<br>11      | 6                       | Green pylon; 52.                          |  |
|                                  | -Auxiliary.                                     |                           | <b>Q.W.</b>   | 59<br>18      |                         |   |  |

| (1)<br>No.               | (2)<br>Name and Location  | (3)<br>Position           | (4)<br>Characteristic  | (5)<br>Height    | (6)<br>Range | (7)<br>Structure                                     | (8)<br>Remarks  |
|--------------------------|---------------------------|---------------------------|--|------------------|--------------|--|---|
| <b>FRANCE-NORTH SEA</b>  |                           |                           |  |                  |              |  |   |
| 8984<br><i>A 1123</i>    | -Jetee Charles de Gaulle. | 51° 03.3' N<br>2° 20.8' E | <b>Fl.G.</b><br>period 4s<br>fl. 1s, ec. 3s  | 33<br><b>10</b>  | 6            | White tower, green top; 23.                          |   |
|                          | -Auxiliary                |                           | <b>Q.W.</b>  | 30<br><b>9</b>   |              |  | Visible 200°-080°.<br>On request.   |
| 8988<br><i>A 1121</i>    | -Ancienne Jetty, W.       | 51° 03.3' N<br>2° 21.4' E | <b>Q.W.</b>  | 36<br><b>11</b>  | 7            | N. CARDINAL<br>BY, pylon on hut, topmark; 46.        |   |
| 8992<br><i>A 1118</i>    | -Jetee Ouest, head.       | 51° 03.6' N<br>2° 21.0' E | <b>Fl.(2)G.</b><br>period 6s<br>fl. 1s, ec. 1s<br>fl. 1s, ec. 3s   | 115<br><b>35</b> | 10           | Brick tower, brown top; 118.                         | Synchronized with 8996.   |
| 8996<br><i>A 1116</i>    | -Musoir, Jette Est, head. | 51° 03.6' N<br>2° 21.2' E | <b>Fl.(2)R.</b><br>period 6s<br>fl. 1s, ec. 1s<br>fl. 1s, ec. 3s   | 39<br><b>12</b>  | 10           | White pylon, red top; 26.                            | Synchronized with 8992.   |
| <b>BELGIUM-NORTH SEA</b> |                           |                           |  |                  |              |  |   |
| WEST HINDER-A1 ROUTE:    |                           |                           |  |                  |              |  |   |
| 9000<br><i>B 0145</i>    | -Westhinder.              | 51° 23.3' N<br>2° 26.3' E | <b>Fl.(4)W.</b><br>period 30s<br>fl. 0.5s, ec. 0.5s<br>fl. 0.5s, ec. 0.5s<br>fl. 0.5s, ec. 0.5s<br>fl. 0.5s, ec. 26.5s | 75<br><b>23</b>  | 12           | Red post, hut.                                       | <b>Horn:</b> Mo.(U) ev. 30s.  |
|                          | -RACON                    |                           | <b>W(• - -)</b>  |                  | 10           |  | (3 & 10cm).   |
| 9002<br><i>B 0147</i>    | -Oost dyck, Heli-tower.   | 51° 16.5' N<br>2° 26.8' E | <b>Mo.(U)W.</b><br>period 15s  | 43<br><b>13</b>  | 12           | Red tower, three white bands.                        | Light on each of four corners.<br><b>Horn:</b> Mo(U) ev. 30s.                         |
|                          | -RACON                    |                           | <b>O(- - -)</b>  |                  | 10           |  | (3 & 10cm).   |
| 9004                     | -KB.                      | 51° 20.9' N<br>2° 42.9' E | <b>Q.W.</b>  |                  |              | N. CARDINAL<br>BY, pillar.                           |   |
|                          | RACON                     |                           | <b>K(- • -)</b>  |                  |              |  |   |
| NIEUWPOORT:              |                           |                           |  |                  |              |  |   |
| 9008<br><i>B 0074</i>    | -E. jetty, near root.     | 51° 09.3' N<br>2° 43.8' E | <b>Fl.(2)R.</b><br>period 14s<br>fl. 0.4s, ec. 2.6s<br>fl. 0.4s, ec. 10.6s   | 85<br><b>26</b>  | 16           | Red cylindrical tower, white bands.                  |   |
| 9012<br><i>B 0076</i>    | -W. mole, head.           | 51° 09.4' N<br>2° 43.0' E | <b>F.G.</b>  | 33<br><b>10</b>  | 9            | White round tower.                                   | Visible 025°-250° and 284°-324°.  |
| 9016<br><i>B 0075</i>    | -E. mole, head.           | 51° 09.4' N<br>2° 43.1' E | <b>F.R.</b>  | 33<br><b>10</b>  | 10           | White round tower.                                   | Visible 025°-250° and 307°-347°.  |
| OOSTENDE:                |                           |                           |  |                  |              |  |   |
| 9020<br><i>B 0092</i>    | -Oostende.                | 51° 14.2' N<br>2° 55.8' E | <b>Fl.(3)W.</b><br>period 10s<br>fl. 0.2s, ec. 1.4s<br>fl. 0.2s, ec. 1.4s<br>fl. 0.2s, ec. 6.6s                        | 207<br><b>63</b> | 27           | Gray concrete tower, two blue diagonal stripes; 190. | Visible 071°-069°30'.   |
| 9022<br><i>B 0094</i>    | -W. pier, head.           | 51° 14.3' N<br>2° 55.0' E | <b>F.G.</b>  | 39<br><b>12</b>  | 10           | White round tower.                                   | Visible 057°-327°.  |
| 9028<br><i>B 0098</i>    | -E. pier.                 | 51° 14.2' N<br>2° 55.5' E | <b>Q.Y.</b>  |                  |              | Signal mast.   | Shown whenever channel is closed.<br>Signal station.<br>Storm signal.<br>Tide signal. |

| (1)<br>No.                 | (2)<br>Name and Location            | (3)<br>Position           | (4)<br>Characteristic  | (5)<br>Height | (6)<br>Range | (7)<br>Structure                          | (8)<br>Remarks  |
|----------------------------|-------------------------------------|---------------------------|--|---------------|--------------|---|---|
| <b>BELGIUM-NORTH SEA</b>   |                                     |                           |  |               |              |   |   |
| 9037<br><i>B 0107</i>      | -Entrance channel Range, front.     | 51° 13.8' N<br>2° 55.9' E | <b>Iso.W.</b><br>period 4s   | 118<br>36     | 4            | Red metal mast, white bands, "X" topmark. | Visible 068°-218°. <b>Radar reflector.</b>  |
| 9037.1<br><i>B 0107.1</i>  | --Rear, 391 meters 143° from front. | 51° 13.6' N<br>2° 56.1' E | <b>Iso.W.</b><br>period 4s   | 151<br>46     | 4            | Red metal mast, white bands, "X" topmark. | Visible 068°-218°. <b>Radar reflector.</b>  |
| BLANKENBERGE:              |                                     |                           |  |               |              |   |   |
| 9044<br><i>B 0112</i>      | <b>-Comte Jean.</b>                 | 51° 18.8' N<br>3° 06.9' E | <b>Fl.(2)W.</b><br>period 8s<br>fl. 1.3s, ec. 1.3s<br>fl. 1.3s, ec. 4.1s | 99<br>30      | 20           | White concrete tower, black top.          | Visible 065°-245°. Storm signals.   |
| 9048<br><i>B 0114</i>      | -E. breakwater, head.               | 51° 18.9' N<br>3° 06.6' E | <b>F.R.</b>  | 41<br>12      | 11           | White round tower.                        | Visible 290°-245°.  |
| 9052<br><i>B 0113.4</i>    | -W. breakwater, head.               | 51° 18.9' N<br>3° 06.5' E | <b>F.G.</b>  | 45<br>14      | 11           | White round tower; 26.                    | Intensified 065°-290°,<br>unintensified-335°.   |
| 9056<br><i>B 0113</i>      | -Entrance Range, front, W. pier.    | 51° 18.7' N<br>3° 06.9' E | <b>F.R.</b>  | 16<br>5       | 3            | Metal mast, red "X" topmark; 16.          |   |
| 9060<br><i>B 0113.1</i>    | --Rear, 81 meters 134° from front.  | 51° 18.7' N<br>3° 06.9' E | <b>F.R.</b>  | 30<br>9       | 10           | Metal mast, red "X" topmark; 26.          |   |
| 9064<br><i>B 0116</i>      | -Promenade Pier, head.              | 51° 19.3' N<br>3° 08.2' E | <b>Fl.(3)Y.</b><br>period 20s  | 26<br>8       | 4            | Metal pedestal.                           |   |
| 9067<br><i>B 0119</i>      | MOW 0.                              | 51° 23.7' N<br>3° 02.8' E | <b>Fl.(5)Y.</b><br>period 20s  | 72<br>22      |              | Yellow pile; 56.                          | Tide gauge.   |
|                            | RACON                               |                           | <b>S(•••)</b>  |               | 10           |   | (3 & 10cm).   |
| 9067.3<br><i>B 0119.5</i>  | MOW 1.                              | 51° 21.6' N<br>3° 07.1' E | <b>Fl.(5)Y.</b><br>period 20s  | 72<br>22      |              | Yellow pile.                              | Tide gauge.   |
| 9067.5<br><i>B 0119.8</i>  | MOW 3.                              | 51° 23.4' N<br>3° 11.9' E | <b>Fl.(5)Y.</b><br>period 20s  | 72<br>22      |              | Yellow pile; 56.                          | Tide gauge.   |
|                            | RACON                               |                           | <b>H(••••)</b>   |               | 10           |   | (3 & 10cm).   |
| 9067.6<br><i>B 0120</i>    | MOW 4.                              | 51° 25.1' N<br>3° 17.9' E | <b>Fl.(4)Y.</b><br>period 20s  | 72<br>22      |              | Yellow pile; 49.                          | Tide gauge.   |
| ZEEBRUGGE:                 |                                     |                           |  |               |              |   |   |
| 9068<br><i>B 0124</i>      | -Range, front, mole.                | 51° 20.7' N<br>3° 13.1' E | <b>Oc.W.</b><br>period 5s<br>lt. 4s, ec. 1s                              | 72<br>22      | 8            | White metal post, red bands.              | Shown 24 hours.   |
| 9072<br><i>B 0124.1</i>    | --Rear, 890 meters 136° from front. | 51° 20.4' N<br>3° 13.7' E | <b>Oc.W.</b><br>period 5s<br>lt. 4s, ec. 1s                              | 148<br>45     | 8            | White metal post, red bands.              | Synchronized with front.  |
| 9073<br><i>B 0123.2</i>    | -W. breakwater, head.               | 51° 21.7' N<br>3° 11.2' E | <b>Oc.G.</b><br>period 7s  | 102<br>31     | 7            | Round concrete tower.                     | Visible 057°-267°,<br>unintensified (in harbor)-<br>057°. Green strip lights on seaward side.<br>Harbor signals 1150 meters S.<br><b>Horn:</b> 3 bl. ev. 30s (bl. 3s, si. 5s, bl. 3s, si. 5s, bl. 3s, si. 11s). |
| 9074<br><i>B 0123</i>      | -E. breakwater, head.               | 51° 21.8' N<br>3° 11.9' E | <b>Oc.R.</b><br>period 7s  | 102<br>31     | 7            | Round concrete tower.                     | Visible 087°-281°,<br>unintensified (in harbor)-<br>087°. Red strip lights on seaward side.<br><b>Bell:</b> 3 str. ev. 25s.   |
| 9075<br><i>B 0124.16</i>   | -Wielingen Dock Range, front.       | 51° 21.5' N<br>3° 10.7' E | <b>F.W.</b>  | 39<br>12      |              | Metal mast.                               |   |
| 9075.1<br><i>B 0124.17</i> | --Rear, 273° from front.            | 51° 21.5' N<br>3° 10.7' E | <b>F.W.</b>  | 46<br>14      |              | Metal mast.                               |   |

| (1)<br>No.                                    | (2)<br>Name and Location             | (3)<br>Position           | (4)<br>Characteristic                           | (5)<br>Height | (6)<br>Range   | (7)<br>Structure                       | (8)<br>Remarks   |
|---|--------------------------------------|---------------------------|---|---------------|----------------|--|--|
| <b>BELGIUM-NORTH SEA</b>                      |                                      |                           |   |               |                |  |  |
| 9075.2<br><i>B 0124.2</i>                     | --S. corner.                         | 51° 21.4' N<br>3° 11.0' E | <b>F.R.</b>                                     |               |                | Pole.                                  |  |
| 9075.5<br><i>B 0124.18</i>                    | --Jetty Range, front.                | 51° 21.3' N<br>3° 10.7' E | <b>F.W.</b>                                     | 39<br>12      |                | Metal mast.                            |  |
| 9075.51<br><i>B 0124.19</i>                   | --Rear, 420 meters 228° from front.  | 51° 21.2' N<br>3° 10.4' E | <b>F.W.</b>                                     | 66<br>20      |                | White metal mast, red bands.           |  |
| 9075.7<br><i>B 0124.5</i>                     | --Range, front.                      | 51° 20.6' N<br>3° 10.7' E | <b>F.Bu.</b>                                    | 59<br>18      |                | White metal mast, red bands.           | 2 neon strip lights.   |
| 9075.72<br><i>B 0124.51</i>                   | --Rear, 155 meters 231° from front.  | 51° 20.5' N<br>3° 10.5' E | <b>F.Bu.</b>                                    | 85<br>26      |                | White metal mast, red bands.           | 2 neon strip lights.   |
| 9076<br><i>B 0122</i>                         | <b>-Leopold II Dam</b> , mole, head. | 51° 20.8' N<br>3° 12.2' E | <b>Oc.W.R.</b><br>period 15s<br>lt. 12s, ec. 3s | 72<br>22      | W. 20<br>R. 18 | Gray round tower.                      | W. 068°-145°, R.-212°, W.-296°. Traffic signals.   |
| 9082<br><i>B 0126</i>                         | -Brittanniadok, outer range, front.  | 51° 20.4' N<br>3° 13.1' E | <b>F.Bu.</b>                                    | 16<br>5       |                | Metal mast.                            |  |
| 9082.1<br><i>B 0126.1</i>                     | --Rear, 240 meters 127° from front.  | 51° 20.3' N<br>3° 13.4' E | <b>F.Bu.</b>                                    | 52<br>16      |                | Metal mast.                            |  |
| 9088<br><i>B 0128</i>                         | -Harbor Range, front.                | 51° 20.4' N<br>3° 11.7' E | <b>2 F.W.</b> (vert.)                           | 98<br>30      |                | White concrete column, black bands.    | Neon. 8 meters apart.  |
| 9092<br><i>B 0128.1</i>                       | --Rear, 200 meters 220° from front.  | 51° 20.3' N<br>3° 11.6' E | <b>F.W.</b> (neon)                              | 95<br>29      |                | White concrete column, black bands.    |  |
| 9093<br><i>B 0131.5</i>                       | -Westhoofd, off NE. corner.          | 51° 20.4' N<br>3° 11.7' E | <b>F.R.R.G.</b> (vert.)                         |               | 1              | Metal post.                            | <b>Radar reflector.</b>  |
| 9096<br><i>B 0125</i>                         | -Outer Harbor Range, front.          | 51° 20.3' N<br>3° 12.9' E | <b>Oc.W.R.</b><br>period 6s<br>lt. 4s, ec. 2s   | 65<br>20      | 3              | White metal pylon, red bands; 36.      | W. 135°-160°, R.-169°.   |
| 9100<br><i>B 0125.1</i>                       | --Rear, 520 meters 153° from front.  | 51° 20.1' N<br>3° 13.1' E | <b>Oc.W.</b><br>period 6s                       | 118<br>36     | 3              | White building, red bands.             | Visible 150°-162°. Synchronized with front. Shown 24 hours.  |
| <b>THE NETHERLANDS-NORTH HINDER TO GOEREE</b> |                                      |                           |   |               |                |  |  |
| 9104  | <i>Noord Hinder Buoy.</i>            | 52° 00.1' N<br>2° 51.2' E | <b>Fl.(2)W.</b><br>period 10s                   |               |                | SAFE WATER<br>RW, spherical.           |  |
|   | RACON                                |                           | <b>T(-)</b>                                     |               | 12             |  | (3 & 10cm).  |
| 9106  | <i>Noord Hinder Buoy NHR-SE.</i>     | 51° 45.5' N<br>2° 40.0' E | <b>Fl.G.</b><br>period 5s                       |               |                | Green conical.                         |  |
|   | RACON                                |                           | <b>N(- •)</b><br>period 120s                    |               | 10             |  |  |
| 9110<br><i>B 0157</i>                         | Appelzak.                            | 51° 22.8' N<br>3° 22.7' E | <b>Fl.(5)Y.</b><br>period 20s                   |               |                | Yellow post.                           | Tide gauge.  |
| 9118<br><i>B 0166.1</i>                       | -Wielingen.                          | 51° 24.4' N<br>3° 31.3' E | <b>Oc.W.</b><br>period 10s                      | 92<br>28      | 14             | Tower; 72.                             | Private light.   |
| 9124<br><i>B 0208</i>                         | Breskens Veerhaven, W. mole.         | 51° 24.4' N<br>3° 33.1' E | <b>F.G.</b>                                     | 33<br>10      | 4              | Black and white post; 36.              | Visible 180°-245°. F.W. shown in fog towards port. F.Y. shown in fog towards river. <b>Fog detector light.</b> <b>Radar reflector.</b> |
| 9128<br><i>B 0209</i>                         | -E. mole.                            | 51° 24.3' N<br>3° 33.2' E | <b>F.R.</b>                                     | 33<br>10      | 5              | Black and white post; 33.              | F.Y. shown in fog. <b>Radar reflector.</b>   |
| 9132<br><i>B 0212</i>                         | Breskens, W. mole.                   | 51° 24.0' N<br>3° 34.1' E | <b>F.G.</b>                                     | 23<br>7       |                | White post, green bands, platform; 20. | F.Y. shown in fog towards river.   |

| (1)<br>No.                                       | (2)<br>Name and Location                               | (3)<br>Position           | (4)<br>Characteristic                           | (5)<br>Height | (6)<br>Range            | (7)<br>Structure  | (8)<br>Remarks   |
|--|--|---------------------------|---|---------------|-------------------------|---|--|
| <b>THE NETHERLANDS-ENTRANCE TO WESTERSCHELDE</b> |  |                           |   |               |                         |   |  |
| BRESKENS:  |  |                           |   |               |                         |   |  |
| 9136<br>B 0214                                   | -E. mole.  | 51° 24.0' N<br>3° 34.1' E | <b>F.R.</b>                                     |               | 23<br>7                 | Red mast, white bands; 16.                                | <b>Radar reflector.</b>  |
| 9137   | Schouwenbank Buoy.                                     | 51° 45.0' N<br>3° 14.4' E | <b>Mo.(A)W.</b><br>period 8s                    |               |                         | SAFE WATER<br>RW, spherical.                              |  |
|  | RACON  |                           | <b>O(---)</b><br>period 120s                    |               | 10                      |   | (3 & 10cm).  |
| WALCHEREN:                                       |  |                           |   |               |                         |   |  |
| -Westkapelle:                                    |  |                           |   |               |                         |   |  |
| 9140<br>B 0173.9                                 | --Noorderhoofd Range, front.                           | 51° 32.4' N<br>3° 26.2' E | <b>Oc.W.R.G.</b><br>period 10s                  | 66<br>20      | W. 13<br>R. 10<br>G. 10 | Red tower, white band; 52.                                | R. 353°-008°, G.-029°, W.-169°.  |
| 9144<br>B 0174                                   | ---Westkapelle rear, about 1.3 km. 149°30' from front. | 51° 31.8' N<br>3° 26.8' E | <b>Fl.W.</b><br>period 3s<br>fl. 0.1s, ec. 2.9s | 164<br>50     | 28                      | Square tower, red superstructure; 171.                    | Obscured by shore on certain bearings.   |
| 9148<br>B 0176                                   | --Molenhoofd.  | 51° 31.6' N<br>3° 26.0' E | <b>Oc.W.R.G.</b><br>period 6s<br>lt. 4s, ec. 2s | 36<br>11      | 6                       | Red mast, white bands; 23.                                | R. 311°30'-330°30', W.-348°30', R.-008°30', G.-034°30', W.-036°30', G.-147°30', W.-168°30', R.-198°.                                     |
| 9152<br>B 0174.1                                 | -Zoutelande.   | 51° 30.3' N<br>3° 28.4' E | <b>F.R.</b>                                     | 72<br>22      | 12                      | Red brick tower; 43.                                      | Visible 321°-352°.   |
| 9156<br>B 0184                                   | -Kaapduinen Range, front.                              | 51° 28.5' N<br>3° 31.0' E | <b>Oc.W.</b><br>period 5s<br>lt. 4s, ec. 1s     | 89<br>27      | 13                      | Red tower, green bands; 46.                               | Visible 115°-145°.   |
| 9160<br>B 0184.1                                 | --Rear, 220 meters 130° from front.                    | 51° 28.4' N<br>3° 31.1' E | <b>Oc.W.</b><br>period 5s<br>lt. 4s, ec. 1s     | 118<br>36     | 13                      | Red tower, green bands; 43.                               | Visible 107°30'-152°30'.<br>Synchronized with front.   |
| 9164<br>B 0188                                   | -Fort de Nolle.  | 51° 26.9' N<br>3° 33.1' E | <b>Oc.W.R.G.</b><br>period 9s                   | 39<br>12      | W. 6<br>R. 4<br>G. 4    | Structure, white bands; 20.                               | R. 293°-309°, W.-324°30', G.-336°30', R.-014°, G.-064°, R.-099°30', W.-110°30', G.-117°, R.-130°.  |
| -Vlissingen (Flushing):                          |  |                           |   |               |                         |   |  |
| 9168<br>B 0200                                   | --Commercial Harbor.                                   | 51° 26.4' N<br>3° 34.5' E | <b>Iso.W.R.G.</b><br>period 3s                  | 56<br>17      | 8                       | Red metal framework tower; 36.                            | R. 253°-277°, W.-283°, R.-296°, W.-306°30', G.-013°, W.-024°, G.-033°, W.-035°, G.-039°, W.-055°, G.-084°30', R.-092°, G.-111°, W.-114°. |
| 9172<br>B 0192                                   | --Leugenaarshoofd Range, front.                        | 51° 26.4' N<br>3° 34.1' E | <b>Oc.R.</b><br>period 5s<br>lt. 3s, ec. 2s     | 23<br>7       | 7                       | Red post, white band; 23.                                 |  |
| 9176<br>B 0192.1                                 | ---Rear, 550 meters 117° from front.                   | 51° 26.3' N<br>3° 34.6' E | <b>Oc.W.R.</b><br>period 5s<br>lt. 3s, ec. 2s   | 33<br>10      | 8                       | Red mast, white bands, triangular daymark point down; 23. | R. 245°-273°, W.-123°30', R.-147°.<br>Synchronized with front.   |
| 9180<br>B 0202                                   | --Buitenhaven, W. mole, head.                          | 51° 26.4' N<br>3° 36.1' E | <b>F.R.</b>                                     | 39<br>12      | 5                       | Red post, white bands; 23.                                | Storm signal.  |
|  |  |                           | <b>Iso.W.R.G.</b><br>period 4s                  |               |                         |   | G. 017°-042°, W.-056°, R.-073°, W.-324°, G.-352°, W.-017°.   |
| 9184<br>B 0202.2                                 | ---E. side.  | 51° 26.4' N<br>3° 36.4' E | <b>F.G.</b>                                     |               | 4                       | Green post, white bands.                                  | F.Y. shown in fog.   |
| 9188<br>B 0203                                   | --Schone Waardin.                                      | 51° 26.5' N<br>3° 37.9' E | <b>Oc.W.R.G.</b><br>period 9s<br>lt. 6s, ec. 3s | 39<br>12      | W. 13<br>R. 10<br>G. 9  | Red mast, white bands; 16.                                | R. 235°-271°, W.-288°, G.-335°, R.-341°, G.-026°, W.-079°, R.-091°.  |

| (1)<br>No.                           | (2)<br>Name and Location                 | (3)<br>Position           | (4)<br>Characteristic                       | (5)<br>Height | (6)<br>Range | (7)<br>Structure   | (8)<br>Remarks   |
|--------------------------------------|--|---------------------------|---|---------------|--------------|--|--|
| <b>THE NETHERLANDS-WESTERSCHELDE</b> |  |                           |   |               |              |  |  |
| <b>WALCHEREN:</b>                    |  |                           |   |               |              |  |  |
| <b>-Sloehaven (Flushing East):</b>   |  |                           |   |               |              |  |  |
| 9192<br><i>B 0204</i>                | --W. mole.                               | 51° 26.9' N<br>3° 40.1' E | <b>F.R.</b>                                 | 33<br>10      | 5            | White concrete column; 16.                                 | F.Y. shown in fog.<br>2 F.R. (vert.) shown when<br>unsafe to approach.                                       |
| 9196<br><i>B 0205</i>                | --E. mole.                               | 51° 26.8' N<br>3° 40.5' E | <b>F.G.</b>                                 | 33<br>10      | 4            | White concrete column; 16.                                 |  |
| 9200<br><i>B 0206</i>                | --Range, front.                          | 51° 27.9' N<br>3° 41.0' E | <b>Oc.R.</b><br>period 8s<br>lt. 6s, ec. 2s | 108<br>33     | 10           | 92.  | Visible 018°-028° by day.  |
| 9204<br><i>B 0206.1</i>              | --Rear, 100 meters 023° from<br>front.   | 51° 27.9' N<br>3° 41.0' E | <b>Oc.R.</b><br>period 8s                   | 131<br>40     | 10           | 115.   | Visible 018°-028° by day.<br>Synchronized with front.  |
| 9212<br><i>B 0206.21</i>             | --Quarleshaven, 059°.                    | 51° 28.4' N<br>3° 43.4' E | <b>Dir.W.R.G.</b>                           |               | 3            | Gray mast; 82.   | F.G. 057°30'-058°24',<br>Al.W.G.-059°06', F.W.-<br>059°30', Al.W.R.-060°12',<br>F.R.-061°.                   |
| 9214<br><i>B 0206.5</i>              | --Van Cittershaven.                      | 51° 26.7' N<br>3° 43.3' E | <b>Dir.W.R.G.</b>                           |               |              |  | F.G. 123°48'-124°42', F.W.-<br>125°, F.R.-125°48'.   |
| 9215<br><i>B 0206.7</i>              | ---Dir. Lt.                              | 51° 27.9' N<br>3° 40.5' E | <b>Dir.W.R.G.</b>                           |               |              |  | F.R. 303°36'-304°54', F.W.-<br>305°06', F.G.-306°24'.  |
| <b>BRAAKMANHAVEN:</b>                |  |                           |   |               |              |  |  |
| 9232<br><i>B 0233</i>                | -First entrance Range, front.            | 51° 20.3' N<br>3° 45.7' E | <b>Iso.W.</b><br>period 4s                  | 39<br>12      |              | White post, black bands; 20.                               |  |
| 9236<br><i>B 0233.1</i>              | --Rear, 60 meters 191° from<br>front.    | 51° 20.2' N<br>3° 45.7' E | <b>Iso.W.</b><br>period 4s                  | 52<br>16      |              | White post, black bands; 46.                               | Synchronized with front.   |
| 9240<br><i>B 0233.4</i>              | -Entrance Dir Lt.                        | 51° 20.4' N<br>3° 45.4' E | <b>Dir.W.R.G.</b>                           |               |              | Steel mast; 98.  | F.G. 201°30'-206°30',<br>Al.W.G.-210°30', F.W.-<br>212°30', Al.W.R.-216°30',<br>F.R.-221°30'.                |
| 9242<br><i>B 0234</i>                | --W. side.                               | 51° 21.1' N<br>3° 45.8' E | <b>F.G.</b>                                 | 33<br>10      | 3            | Green post, white bands.                                   | Traffic signal.<br>F.W. shown in fog.<br>Q.R. 5m shown when harbor<br>obstructed.<br><b>Radar reflector.</b> |
| 9242.5<br><i>B 0234.2</i>            | --E. side.                               | 51° 21.1' N<br>3° 46.1' E | <b>F.R.</b>                                 | 30<br>9       |              | Red post, white bands; 23.                                 | Traffic signal.<br><b>Radar reflector.</b>   |
| 9248<br><i>B 0236</i>                | -Outer Dyke Range, front.                | 51° 21.0' N<br>3° 47.2' E | <b>Oc.W.</b><br>period 5s                   | 26<br>8       | 13           | White mast, green bands, white<br>rectangular daymark; 13. | Intensified 117°-133°.   |
| 9252<br><i>B 0236.1</i>              | --Rear, 365 meters 125° from<br>front.   | 51° 20.9' N<br>3° 47.5' E | <b>Oc.W.</b><br>period 5s                   | 59<br>18      | 13           | Green framework tower, white<br>bands; 49.                 | Intensified 117°-133°.   |
| <b>TERNEUZEN SEA HARBOR:</b>         |  |                           |   |               |              |  |  |
| 9256<br><i>B 0250</i>                | -Entrance Range, front.                  | 51° 20.1' N<br>3° 48.5' E | <b>Iso.W.</b><br>period 4s                  | 39<br>12      | 8            | White mast; 29.  |  |
| 9260<br><i>B 0250.1</i>              | --Rear, 88 meters 192°30' from<br>front. | 51° 20.1' N<br>3° 48.5' E | <b>Iso.W.</b><br>period 4s                  | 49<br>15      | 8            | White mast; 29.  | Synchronized with front.   |
| 9264<br><i>B 0251</i>                | -W. mole.                                | 51° 20.6' N<br>3° 49.0' E | <b>F.G.</b>                                 |               | 4            | White mast, green bands; 23.                               | Traffic signals.<br>F.Y. shown in fog towards river.   |
| 9268<br><i>B 0252</i>                | -E. mole.                                | 51° 20.5' N<br>3° 49.2' E | <b>F.R.</b>                                 |               | 5            | Red mast, white bands; 23.                                 | 2 F.R. (vert.) shown when<br>unsafe to approach.   |

| (1)<br>No.                            | (2)<br>Name and Location                      | (3)<br>Position           | (4)<br>Characteristic                            | (5)<br>Height | (6)<br>Range          | (7)<br>Structure                             | (8)<br>Remarks  |
|---------------------------------------|---|---------------------------|--|---------------|-----------------------|--|---|
| <b>THE NETHERLANDS-WESTERSCHDELDE</b> |   |                           |  |               |                       |  |   |
| <b>TERNEUZEN WEST HARBOR:</b>         |   |                           |  |               |                       |  |   |
| 9272<br>B 0245                        | -W. mole, near head.                          | 51° 20.6' N<br>3° 49.6' E | <b>F.G.</b>                                      |               |                       | White mast, green bands; 23.                 | F.Y. shown in fog towards river.  |
| 9276<br>B 0246                        | -E. mole, near head.                          | 51° 20.5' N<br>3° 49.7' E | <b>F.R.</b>                                      |               |                       | Red mast, white bands; 23.                   | 2 F.R. (vert.) shown when unsafe to approach.   |
| 9280<br>B 0244                        | -W. jetty, about 101 meters from head.        | 51° 20.5' N<br>3° 49.6' E | <b>Oc.W.R.G.</b><br>period 5s<br>lt. 3s, ec. 2s  | 52<br>16      | W. 9<br>R. 7<br>G. 6  | White post, black band; 33.                  | R. 090°-115°, W.-120°, G.-130°, W.-245°, G.-249°, W.-279°, R.-004°.   |
| 9284<br>B 0256                        | -Othenepolder, W. mole near root.             | 51° 20.1' N<br>3° 51.5' E | <b>Iso.W.R.G.</b><br>period 8s                   | 43<br>13      | W. 12<br>R. 9<br>G. 9 | Green iron structure, white stripe; 13.      | R. 083°-113°, G.-146°30', W.-149°30', G.-194°30', W.-197°30', G.-218°30', R.-234°.  |
| 9288<br>B 0258                        | -Margarethapolder, tide gauge.                | 51° 21.0' N<br>3° 53.1' E | <b>Oc.W.R.G.</b><br>period 9s<br>lt. 6s, ec. 3s  | 33<br>10      | W. 6<br>R. 4<br>G. 4  | Green structure, white stripe; 39.           | R. 060°-075°30', W.-079°, G.-103°30', W.-179°, G.-217°, W.-233°, R.-239°, W.-060°.  |
| 9292<br>B 0262                        | -Eendragt polder Range, front, on embankment. | 51° 21.4' N<br>3° 54.3' E | <b>Oc.W.R.G.</b><br>period 5s<br>lt. 4s, ec. 1s  | 33<br>10      | W. 8<br>R. 6<br>G. 5  | Green and white mast; 16.                    | R. 045°-064°30', W.-077°, G.-221°, W.-228°, R.-250°, W.-045°.   |
| 9296<br>B 0262.1                      | --Rear, 283 meters 074°30' from front.        | 51° 21.4' N<br>3° 54.5' E | <b>Oc.W.</b><br>period 5s<br>lt. 4s, ec. 1s      | 66<br>20      | 6                     | Green post, white bands; 59.                 | Synchronized with front.  |
| 9300<br>B 0268                        | -Hoedekenskerke.                              | 51° 25.1' N<br>3° 55.0' E | <b>Oc.W.R.G.</b><br>period 9s                    | 23<br>7       | 6                     | Red steel beacon, white band; 16.            | W. 007°-018°30', R.-030°, W.-190°, R.-205°30', W.-210°, G.-230°30', W.-326°, G.-007°.   |
| 9320<br>B 0282                        | -Schore Range, front.                         | 51° 27.2' N<br>3° 59.4' E | <b>Oc.W.R.G.</b><br>period 4s<br>lt. 3s, ec. 1s  | 36<br>11      |                       | White structure, red band; 13.               | R. 300°-331°, W.-358°30', G.-020°, W.-023°, R.-046°, G.-076°30', W.-092°30', R.-112°.   |
| 9324<br>B 0282.1                      | --Rear, 480 meters 021°30' from front.        | 51° 27.5' N<br>3° 59.6' E | <b>Oc.W.</b><br>period 4s                        | 66<br>20      |                       | Red mast, white bands; 66.                   | Synchronized with front.  |
| <b>-Hansweert:</b>                    |   |                           |  |               |                       |  |   |
| 9328<br>B 0286                        | --Entrance canal, W. side.                    | 51° 26.4' N<br>4° 00.5' E | <b>Oc.W.R.G.</b><br>period 10s<br>lt. 7s, ec. 3s | 36<br>11      |                       | Red tower, white bands; 26.                  | R. 288°-311°, G.-320°, W.-332°30', G.-348°30', W.-042°30', R.-061°30', W.-078°, G.-099°, W.-114°30', R.-127°30', W.-288°.<br>F.Y. shown in fog. |
|                                       |   |                           | <b>F.R.</b>                                      | 43<br>13      | 33.                   |  |   |
| 9329<br>B 0288                        | --E. side of entrance canal.                  | 51° 26.4' N<br>4° 00.8' E | <b>F.G.</b>                                      | 26<br>8       |                       | Gray post; 16.                               |   |
| <b>WALSOORDEN:</b>                    |   |                           |  |               |                       |  |   |
| 9348<br>B 0296                        | -Oude Hoofd.                                  | 51° 23.6' N<br>4° 01.9' E | <b>Iso.W.R.G.</b><br>period 2s                   | 36<br>11      | W. 8<br>R. 6<br>G. 5  | Green and white beacon, dolphin; 39.         | R. 132°-173°30', W.-270°, G.-324°, W.-341°, R.-012°.  |
| 9352<br>B 0298                        | -Nieuwe haven, N. jetty.                      | 51° 22.9' N<br>4° 02.1' E | <b>F.G.</b>                                      | 23<br>7       |                       | Gray post, red and white square daymark; 13. | F.Y. shown in fog.  |
| 9356<br>B 0299                        | --S. jetty.                                   | 51° 22.9' N<br>4° 02.1' E | <b>F.R.</b>                                      | 23<br>7       |                       | Gray post; 13.                               |   |
| 9360<br>B 0300                        | -Entrance Range, front.                       | 51° 22.8' N<br>4° 02.0' E | <b>Oc.W.</b><br>period 3s<br>lt. 2s, ec. 1s      | 36<br>11      |                       | Gray post, white rectangular daymark; 26.    | Visible 200°-240°.  |



| (1)<br>No.                            | (2)<br>Name and Location                               | (3)<br>Position           | (4)<br>Characteristic                            | (5)<br>Height | (6)<br>Range         | (7)<br>Structure                                | (8)<br>Remarks  |
|---------------------------------------|--|---------------------------|--|---------------|----------------------|---|---|
| <b>THE NETHERLANDS-WESTERSCHDELDE</b> |  |                           |  |               |                      |   |   |
| 9364<br>B 0300.1                      | --Rear, 60 meters 220° from front.                     | 51° 22.8' N<br>4° 02.0' E | <b>Oc.W.</b><br>period 3s<br>lt. 2s, ec. 1s      | 46<br>14      |                      | Gray mast, red triangular daymark point down.   | Visible 200°-240°. Synchronized with front.   |
| BATH:                                 |  |                           |  |               |                      |   |   |
| 9388<br>B 0318                        | -Westketel.  | 51° 23.6' N<br>4° 10.2' E | <b>Oc.W.R.G.</b><br>period 10s<br>lt. 7s, ec. 3s | 33<br>10      | W. 8<br>R. 5<br>G. 5 | Red post; 36.                                   | W. 016°-037°, R.-090°, W.-200°, R.-246°30', W.-256°30', G.-301°30', W.-353°, G.-016°.                             |
| 9392<br>B 0319.9                      | -Middenketel Range, front.                             | 51° 24.0' N<br>4° 11.2' E | <b>Iso.W.R.</b><br>period 3s                     | 33<br>10      | 6                    | Red post, white band; 33.                       | R. 248°-279°, W.-248°.  |
| 9396<br>B 0320                        | --Noordketel, common rear, 683 meters 044° from front. | 51° 24.2' N<br>4° 11.5' E | <b>Oc.W.</b><br>period 3s<br>lt. 2s, ec. 1s      | 46<br>14      | 6                    | Red tank, white column; 43.                     |   |
| 9400<br>B 0320.1                      | -Oostketel, 344 meters 310° from rear.                 | 51° 24.1' N<br>4° 11.8' E | <b>Q.W.R.G.</b>                                  | 26<br>8       | W. 6<br>R. 4<br>G. 4 | Red post, two white bands; 33.                  | W. 055°-065°30', R.-090°, W.-270°, R.-301°30', W.-325°, G.-055°.  |
| ZUID BEVELAND:                        |  |                           |  |               |                      |   |   |
| 9404<br>B 0330                        | -Reigersbergsche Polder, angle of sea dyke.            | 51° 24.0' N<br>4° 12.4' E | <b>Oc.W.R.G.</b><br>period 5s<br>lt. 4s, ec. 1s  |               | W. 6<br>R. 5<br>G. 4 | Red iron post, white bands; 16.                 | W. 074°-087°, R.-112°, W.-280°, R.-342°, W.-349°, G.-074°.  |
| <b>BELGIUM-SCHDELDE</b>               |  |                           |  |               |                      |   |   |
| 9408<br>B 0336                        | Zuid Saaftinge.  | 51° 21.9' N<br>4° 13.1' E | <b>Iso.W.R.G.</b><br>period 10s                  | 23<br>7       | W. 6<br>R. 4<br>G. 4 | Green post; 36.                                 | R. 158°-168°30', W.-240°, G.-291°, W.-322°, R.-332°, W.-158°.   |
| 9412<br>B 0338                        | Nord Ballastplaat.                                     | 51° 21.4' N<br>4° 14.8' E | <b>Fl.W.R.G.</b><br>period 4s<br>fl. 1s, ec. 3s  | 20<br>6       | W. 9<br>R. 7<br>G. 6 | Black beacon, red daymark, red lantern.         | R. 275°-309°, W.-320°, G.-327°, W.-348°, G.-044°, W.-096°, R.-145°.   |
| 9416                                  | Plaat van Doel, W. side of river.                      | 51° 21.0' N<br>4° 14.5' E | <b>F.G., 2 F.R.</b>                              | 26<br>8       | 4                    | Tide gauge.                                     |   |
| 9420<br>B 0346                        | Zandvliet.   | 51° 20.7' N<br>4° 16.3' E | <b>Dir.W.R.G.</b>                                | 72<br>22      | W. 4<br>R. 3<br>G. 3 |   | Oc.G. 116°38'-117°10', F.G.-117°35', Al.W.G.-118°08', F.W.-118°38', Al.W.R.-119°11', F.R.-119°35', Oc.R.-120°08'. |
| 9422<br>B 0346.1                      | -Front, 200 meters 118°06' from common rear.           | 51° 20.6' N<br>4° 16.3' E | <b>Oc.W.</b><br>period 5s                        | 33<br>10      | 9                    |   |   |
| 9422.1<br>B 0346.11                   | -Front, 200 meters 117°42' from common rear.           | 51° 20.6' N<br>4° 16.3' E | <b>Oc.W.</b><br>period 5s                        | 33<br>10      | 9                    |   |   |
| 9424<br>B 0346.12                     | --Common rear.   | 51° 20.6' N<br>4° 16.5' E | <b>Oc.W.</b><br>period 5s                        | 69<br>21      | 9                    | Red post, red rectangular daymark, white bands. | Synchronized with fronts.   |
| 9426<br>B 0346.2                      | Entrance, S. side.                                     | 51° 20.7' N<br>4° 16.2' E | <b>F.G.</b>                                      |               |                      | Post.   |   |
| DOEL:                                 |  |                           |  |               |                      |   |   |
| 9456<br>B 0356                        | -Range, front.   | 51° 18.7' N<br>4° 16.1' E | <b>Fl.W.R.</b><br>period 3s<br>fl. 1s, ec. 2s    | 30<br>9       | W. 10<br>R. 7        | Pole, black rectangular daymark, white stripe.  | R. 145°-185°, W.-334°, R.-355°. Fl.W. 3s 18M, visible 186°45'-190°15' by day.                                     |
|                                       |  |                           | <b>Q.W.</b>                                      |               | 10                   |   | Q.W. 18M, visible 326°15'-329°45' by day.   |

| (1)<br>No.                   | (2)<br>Name and Location               | (3)<br>Position           | (4)<br>Characteristic                            | (5)<br>Height | (6)<br>Range         | (7)<br>Structure   | (8)<br>Remarks   |
|------------------------------|--|---------------------------|--|---------------|----------------------|--|--|
| <b>BELGIUM-SCHELDE</b>       |  |                           |  |               |                      |  |  |
| 9460<br><i>B 0356.1</i>      | --Rear, 312 meters 188°30' from front. | 51° 18.5' N<br>4° 16.0' E | <b>Fl.W.</b><br>period 3s<br>fl. 1s, ec. 2s      | 62<br>19      | 10                   | Yellow post, black bands.  | Visible 186°45'-190°15'.<br>Synchronized with front.<br>Range 18M by day.  |
|                              |  |                           | <b>F.R.</b>                                      |               | 1                    |  | Black daymark point down by day.<br>Red LED triangular daymark point down by night.  |
| 9461.1<br><i>B 0372.5</i>    | Deurganckdok, W. Range, front.         | 51° 16.8' N<br>4° 14.9' E | <b>Oc.W.</b><br>period 5s<br>lt. 4s, ec. 1s      | 69<br>21      | 3                    | Black post, yellow daymark.                                      |  |
|                              |  |                           | <b>F.R.</b>                                      |               |                      | Red LED triangular daymark point down.                           |  |
| 9461.15<br><i>B 0372.501</i> | --Rear, 300 meters 212°12' from front. | 51° 16.7' N<br>4° 14.7' E | <b>Oc.W.</b><br>period 5s<br>lt. 4s, ec. 1s      | 79<br>24      | 3                    | Black post, yellow daymark.                                      | Synchronized with front.   |
|                              |  |                           | <b>F.R.</b>                                      |               |                      | Red LED triangular daymark point down.                           |  |
| 9461.2<br><i>B 0372.6</i>    | -E. Range, front.                      | 51° 16.8' N<br>4° 15.0' E | <b>Oc.W.</b><br>period 3s<br>lt. 2s, ec. 1s      | 69<br>21      | 3                    | Black post, yellow daymark.                                      |  |
|                              |  |                           | <b>F.R.</b>                                      |               |                      | Red LED triangular daymark point down.                           |  |
| 9461.25<br><i>B 0372.601</i> | --Rear, 301 meters 213°18' from front. | 51° 16.6' N<br>4° 14.9' E | <b>Oc.W.</b><br>period 3s<br>lt. 2s, ec. 1s      | 79<br>24      | 3                    | Black post, yellow daymark.                                      | Synchronized with front.   |
|                              |  |                           | <b>F.R.</b>                                      |               |                      | Red LED triangular daymark point down.                           |  |
| 9464<br><i>B 0364</i>        | Lillo, jetty, head.                    | 51° 18.2' N<br>4° 17.2' E | <b>Oc.W.R.G.</b><br>period 10s<br>lt. 7s, ec. 3s | 16<br>5       | W. 9<br>R. 7<br>G. 6 | Black beacon, red rectangular daymark, red lantern.              | R. 260°-303°06', W.-307°24',<br>G.-116°30', W.-148°, R.-180°.  |
| 9472<br><i>B 0368</i>        | Liefkenshoek Range, front.             | 51° 17.8' N<br>4° 17.1' E | <b>Oc.W.R.G.</b><br>period 3s<br>lt. 2s, ec. 1s  | 13<br>4       | W. 8<br>R. 6<br>G. 5 | Black tower, white diagonal stripe, concrete base.               | R. 075°-125°24', W.-151°36',<br>G.-264°54', W.-288°24',<br>R.-307°.<br>Tide gauge.<br>Oc.W. 3s visible 280°15'-283°45' by day. |
| 9476<br><i>B 0368.1</i>      | --Rear, 60 meters 282° from front.     | 51° 17.8' N<br>4° 17.1' E | <b>Oc.W.</b><br>period 3s<br>lt. 2s, ec. 1s      | 30<br>9       | 9                    | Black and white mast, lantern.                                   | Synchronized with front.<br>Visible 280°15'-283°45' by day.  |
| <b>ANTWERPEN:</b>            |  |                           |  |               |                      |  |  |
| 9484<br><i>B 0372</i>        | -Kruisschans Range, front.             | 51° 17.3' N<br>4° 19.4' E | <b>Oc.W.R.G.</b><br>period 5s<br>lt. 4s, ec. 1s  | 16<br>5       | W. 9<br>R. 7<br>G. 6 |  | R. 320°-358°24', W.-014°36',<br>G.-105°30', W.-121°, R.-150°.<br>Tide gauge.<br>F.W. visible 110°15'-113°45' by day.           |
| 9488<br><i>B 0372.1</i>      | --Rear, 195 meters 112° from front.    | 51° 17.3' N<br>4° 19.5' E | <b>Oc.W.</b><br>period 5s<br>lt. 4s, ec. 1s      | 39<br>12      | 7                    | Red post, daymark, red and yellow diagonal stripes, red lantern. |  |
|                              |  |                           | <b>F.R.</b>                                      |               |                      | Red LED triangular daymark point down.                           | F.W. visible 110°15'-113°45' by day.   |
| 9492<br><i>B 0376</i>        | -Meestoof.                             | 51° 16.6' N<br>4° 19.3' E | <b>Fl.W.R.G.</b><br>period 4s<br>fl. 1s, ec. 3s  | 16<br>5       | W. 9<br>R. 7<br>G. 6 | Black beacon, red rectangular daymark, white stripes.            | W. 019°-039°, R.-052°54',<br>W.-116°54', G.-172°12',<br>W.-192°42', R.-234°.   |
|                              |  |                           | <b>F.R.</b>                                      |               |                      | Neon triangular daymark point down.                              |  |

| (1)<br>No.                       | (2)<br>Name and Location                                      | (3)<br>Position           | (4)<br>Characteristic   | (5)<br>Height | (6)<br>Range         | (7)<br>Structure   | (8)<br>Remarks   |
|----------------------------------|---|---------------------------|---|---------------|----------------------|--|--|
| <b>BELGIUM-SCHELDE</b>           |   |                           |   |               |                      |  |  |
| 9496<br><i>B 0378</i>            | -Fort de Parel Range, front.                                  | 51° 15.8' N<br>4° 17.7' E | <b>Oc.W.R.G.</b><br>period 4s<br>lt. 3s, ec. 1s   | 42<br>13      | W. 9<br>R. 7<br>G. 6 | Black beacon, yellow rectangular daymark.                            | R. 174°-24'-222°, W.-232°30', G.-319°12', W.-339°, R.-025°.<br>Oc.W. 4s, visible 225°15'-228°45' by day.         |
| 9500<br><i>B 0378.1</i>          | --Rear, 187 meters 227° from front.                           | 51° 15.8' N<br>4° 17.6' E | <b>Oc.W.</b><br>period 4s   | 66<br>20      | 9                    | Yellow post, black "X" topmark, red lantern.                         | Visible 225°15'-228°45' by day.<br>Synchronized with front.  |
| 9504<br><i>B 0380</i>            | -Krankeloon Range, front, near fort.                          | 51° 15.3' N<br>4° 18.0' E | <b>Oc.W.R.G.</b><br>period 5s<br>lt. 4s, ec. 1s   | 16<br>5       | W. 9<br>R. 7<br>G. 6 | White column, black stripes.   | R. 142°-164°, W.-200°, G.-274°, W.-283°30', R.-316°.<br>Oc.W. 5s, visible 278°15'-281°45' by day.                |
| 9508<br><i>B 0380.1</i>          | --Rear, 280 meters 280° from front.                           | 51° 15.3' N<br>4° 17.7' E | <b>Oc.W.</b><br>period 5s<br>lt. 4s, ec. 1s   | 49<br>15      | 7                    | Yellow metal framework tower, black rectangular daymark, white band. | Visible 278°15'-281°45' by day.<br>Synchronized with front.  |
| 9512<br><i>B 0382</i>            | -Fort Filip, SW. side.  | 51° 15.5' N<br>4° 18.4' E | <b>L.Fl.W.R.G.</b><br>period 6s<br>fl. 2s, ec. 4s   | 16<br>5       | W. 7<br>R. 5<br>G. 4 | Black beacon, red rectangular daymark.                               | R. 268°-294°, W.-306°, G.-358°, W.-104°, G.-127°, R.-153°.   |
| 9516<br><i>B 0384</i>            | -Boerenschans Range, front.                                   | 51° 15.1' N<br>4° 19.9' E | <b>Fl.W.R.G.</b><br>period 4s<br>fl. 1s, ec. 3s   | 16<br>5       | W. 9<br>R. 7<br>G. 6 | Black beacon, red rectangular daymark.                               | R. 254°-317°30', W.-336°, G.-080°, W.-102°, R.-115°. Tide gauge.<br>Fl.W. 4s 2M, visible 093°15'-096°45' by day. |
|                                  |   |                           | <b>F.R.</b>   |               |                      | LED triangular daymark point up.                                     |  |
| 9520<br><i>B 0384.1</i>          | --Rear, 400 meters 095° from front.                           | 51° 15.1' N<br>4° 20.2' E | <b>Q.W.</b>   | 36<br>11      | 5                    | Red post, white bands, red triangular daymark point down with "X".   | Visible 093°15'-096°45'.   |
|                                  |   |                           | <b>F.R.</b>   |               |                      | LED triangular daymark point down.                                   |  |
| 9528<br><i>B 0387.9</i>          | -Draaiende Sluis, rear, 240 meters 140°48' from common front. | 51° 14.2' N<br>4° 21.0' E | <b>Q.W.</b>   | 36<br>11      | 6                    | Yellow mast, red lantern, black "X" topmark.                         | Visible 113°-194°.   |
| 9532<br><i>B 0388</i>            | --Pijp Tabak Range, common front.                             | 51° 14.3' N<br>4° 20.8' E | <b>Oc.W.R.G.</b><br>period 5s<br>lt. 4s, ec. 1s   | 13<br>4       | W. 7<br>R. 5<br>G. 4 | Concrete post, black and white checkered rectangular daymark.        | R. 126°-135°, W.-147°, G.-263°, W.-274°, R.-308°.  |
| 9536<br><i>B 0388.1</i>          | -Rear, 270 meters 270° from front.                            | 51° 14.3' N<br>4° 20.6' E | <b>Q.W.</b>   | 36<br>11      | 6                    | Black column, red lantern, yellow "X" topmark.                       |  |
| 9540<br><i>B 0392</i>            | --Range, front.   | 51° 14.3' N<br>4° 23.9' E | <b>F.R. (neon)</b>  | 16<br>5       | 4                    | Post, red rectangular daymark.                                       |  |
| 9544<br><i>B 0392.1</i>          | ---Rear, 170 meters 091° from front.                          | 51° 14.3' N<br>4° 24.0' E | <b>F.R.</b>   | 26<br>8       | 4                    | Mast, red neon triangular daymark point down.                        |  |
| <b>THE NETHERLANDS-NORTH SEA</b> |   |                           |   |               |                      |  |  |
| SCHOUWEN EN DUIVELAND:           |   |                           |   |               |                      |  |  |
| 9576<br><i>B 0500</i>            | -West Schouwen.   | 51° 42.5' N<br>3° 41.5' E | <b>Fl.(2+1)W.</b><br>period 15s<br>fl. 0.2s, ec. 2.4s<br>fl. 0.2s, ec. 6s<br>fl. 0.2s, ec. 6s | 190<br>58     | 30                   | Stone tower, red and white diagonal band; 164.                       |  |
| 9584<br><i>B 0408</i>            | -Burghsluis.  | 51° 40.6' N<br>3° 45.6' E | <b>F.W.R.G.</b>   | 36<br>11      | W. 8<br>R. 5<br>G. 4 | Mast, red column; 23.  | R. 230°-245°, W.-253°30', G.-293°, W.-000°, G.-025°30', W.-032°, G.-041°, R.-070°, W.-095°.                      |
| 9588<br><i>B 0506</i>            | -Ossehoek, pier, head.  | 51° 44.6' N<br>3° 53.7' E | <b>F.G.</b>   | 26<br>8       | 3                    | White beacon.  |  |

| (1)<br>No.                | (2)<br>Name and Location                    | (3)<br>Position           | (4)<br>Characteristic   | (5)<br>Height | (6)<br>Range          | (7)<br>Structure   | (8)<br>Remarks   |
|---------------------------|---|---------------------------|---|---------------|-----------------------|--|--|
| THE NETHERLANDS-NORTH SEA |   |                           |   |               |                       |  |  |
| GOEREE EN OVER-FLAKKEE:   |   |                           |   |               |                       |  |  |
| -Ouddorp Haven:           |   |                           |   |               |                       |  |  |
| 9592<br>B 0514            | --W. mole, head.                            | 51° 47.9' N<br>3° 56.3' E | F.R.  |               | 16<br>5               | Mast; 8.   |  |
| 9596<br>B 0515            | --E. mole, head.                            | 51° 47.9' N<br>3° 56.2' E | F.G.  |               | 16<br>5               | Mast; 7.   |  |
| 9600<br>B 0518            | -Westhoofd.                                 | 51° 48.8' N<br>3° 51.8' E | Fl.(3)W.<br>period 15s<br>fl. 0.2s, ec. 2.8s<br>fl. 0.2s, ec. 2.8s<br>fl. 0.2s, ec. 8.8s                      |               | 184<br>56             | 30 Brown square tower; 170.                                      |  |
| HELLEVOETSLUIS:           |   |                           |   |               |                       |  |  |
| 9624<br>B 0536            | -Naval harbor, W. head.                     | 51° 49.2' N<br>4° 07.7' E | Iso.W.R.G.<br>period 10s  | 56<br>17      | W. 11<br>R. 8<br>G. 7 | White tower, red top; 59.  | G. 266°-275°, W.-294°, R.-316°, W.-036°, G.-058°, W.-095°, R.-140°.                      |
| 9628<br>B 0540            | -W. mole, head.                             | 51° 49.2' N<br>4° 07.9' E | F.R.  | 23<br>7       |                       | Red post, white bands; 13.                                       |  |
| 9632<br>B 0542            | -E. mole, head.                             | 51° 49.2' N<br>4° 08.0' E | F.G.  | 23<br>7       |                       | Green post, white bands; 13.                                     | F.Y. shown in fog.   |
| 9636<br>B 0630            | Goeree.                                     | 51° 55.5' N<br>3° 40.1' E | Fl.(4)W.<br>period 20s<br>fl. 0.1s, ec. 3.2s<br>fl. 0.1s, ec. 3.2s<br>fl. 0.1s, ec. 3.2s<br>fl. 0.1s, ec. 10s | 105<br>32     | 28                    | Red and white checkered light tower; 79.<br>Helicopter platform. | Horn: 4 bl. ev. 30s (bl. 2s, si. 3s, bl. 2s, si. 3s, bl. 2s, si. 13s).                   |
| RACON                     |   | T(-)                      |   |               | 12                    | (3 & 10cm).  |  |
| HOEK VAN HOLLAND:         |   |                           |   |               |                       |  |  |
| 9644<br>B 0635            | -Zuiderdam, head.                           | 51° 59.1' N<br>4° 02.5' E | F.G.  | 82<br>25      | 10                    | Green tower, white bands; 102.<br>Helicopter platform.           | Visible 330°-307°.   |
| 9648<br>B 0634            | -Noorderdam, new head, N. side of entrance. | 51° 59.7' N<br>4° 02.8' E | F.R.  | 84<br>26      | 10                    | Red tower, white bands; 102.<br>Helicopter platform.             | Visible 278°-255°.   |
| 9656<br>B 0637            | -Maasmond Range, front.                     | 51° 58.9' N<br>4° 04.9' E | Iso.W.<br>period 4s   | 98<br>30      | 21                    | White tower, black bands.  | Visible 101°-123°.<br>Shown 24 hours.<br>For use by very deep draft vessels only.        |
| 9660<br>B 0637.1          | --Rear, 1135 meters 112° from front.        | 51° 58.6' N<br>4° 05.8' E | Iso.W.<br>period 4s   | 157<br>48     | 21                    | White tower, black bands.  | Visible 101°-123°.<br>Shown 24 hours.<br>Synchronized with front.                        |
| 9664<br>B 0638            | --Entrance Range, front.                    | 51° 58.6' N<br>4° 07.5' E | Iso.R.<br>period 6s   | 98<br>30      | 18                    | Red tower, white bands.  | Visible 099°30'-114°30'.<br>Shown 24 hours.  |
| 9668<br>B 0638.1          | ---Rear, 450 meters 107° from front.        | 51° 58.5' N<br>4° 07.9' E | Iso.R.<br>period 6s   | 144<br>44     | 18                    | Red tower, white bands.  | Visible 099°30'-114°30'.<br>Shown 24 hours.<br>Synchronized with front.                  |
| -Europoort:               |   |                           |   |               |                       |  |  |
| 9672<br>B 0642            | --Calandkanaal Range, front.                | 51° 57.6' N<br>4° 08.7' E | Oc.G.<br>period 6s<br>lt. 4s, ec. 2s  | 98<br>30      | 16                    | Red tower, white bands.  | Visible 108°30'-123°30'.<br>Shown 24 hours.  |
| 9676<br>B 0642.1          | ---Rear, 550 meters 116° from front.        | 51° 57.4' N<br>4° 09.1' E | Oc.G.<br>period 6s  | 144<br>44     | 16                    | Red tower, white bands.  | Visible 108°30'-123°30'.<br>Shown 24 hours.<br>Synchronized with front.                  |
| 9684<br>B 0646            | ---Entrance Range, front.                   | 51° 56.4' N<br>4° 04.7' E | Iso.G.<br>period 3s   | 69<br>21      | 11                    | Red and white checkered post.                                    | Visible 185°-200°.<br>Shown 24 hours.<br>Intensified at night and in reduced visibility. |

| (1)<br>No.                       | (2)<br>Name and Location               | (3)<br>Position           | (4)<br>Characteristic                         | (5)<br>Height | (6)<br>Range            | (7)<br>Structure  | (8)<br>Remarks  |
|----------------------------------|--|---------------------------|---|---------------|-------------------------|---|---|
| <b>THE NETHERLANDS-NORTH SEA</b> |  |                           |   |               |                         |   |   |
| 9688<br><i>B 0646.1</i>          | ---Rear, 50 meters 192°30' from front. | 51° 56.3' N<br>4° 04.7' E | <b>Iso.G.</b><br>period 3s                    | 79<br>24      | 11                      | Red and white checkered post.   | Visible 185°-200°. Shown 24 hours. Synchronized with front. Intensified at night and in reduced visibility. |
| 9689<br><i>B 0646.41</i>         | --Kleine Beerkanaal, NW. end.          | 51° 58.5' N<br>4° 04.4' E | <b>2 F.R.</b>                                 |               |                         | Gray post, red and white daymark.   |   |
| 9689.1<br><i>B 0646.45</i>       | ---Island, N. end.                     | 51° 58.4' N<br>4° 04.8' E | <b>2 F.R.</b>                                 |               |                         | Gray post, red and white daymark.   |   |
| 9689.2<br><i>B 0646.47</i>       | ----S. end.                            | 51° 58.1' N<br>4° 04.9' E | <b>F.R.</b>                                   |               |                         | Red and white daymark.  |   |
| 9689.3<br><i>B 0646.5</i>        | ----SE. end.                           | 51° 57.9' N<br>4° 04.8' E | <b>F.R.</b>                                   |               |                         | Red and white daymark.  |   |
| 9690<br><i>B 0646.7</i>          | --Beerkanaal, front.                   | 51° 57.5' N<br>4° 05.5' E | <b>Oc.W.</b><br>period 6s<br>lt. 4s, ec. 2s   | 52<br>16      |                         | Gray post; 49.  | Shown 24 hours.   |
| 9690.1<br><i>B 0646.75</i>       | ---Rear, 327 meters 110° from front.   | 51° 57.5' N<br>4° 05.8' E | <b>Oc.W.</b><br>period 6s<br>lt. 4s, ec. 2s   | 69<br>21      |                         | Gray post; 66.  | Shown 24 hours. Synchronized with front.  |
| 9692<br><i>B 0647</i>            | -Petroleum Port, No 6.                 | 51° 56.8' N<br>4° 05.1' E | <b>F.G.</b>                                   |               |                         | White platform.   |   |
| 9696<br><i>B 0648</i>            | -Mississippihaven, E. side.            | 51° 56.6' N<br>4° 05.0' E | <b>Iso.W.R.G.</b><br>period 3s                | 66<br>20      | W. 13<br>R. 10<br>G. 10 | Red and white checkered post.   | G. 066°30'-068°, W.-071°, R.-072°30'. Shown 24 hours.   |
| 9701<br><i>B 0648.31</i>         | --W. side.                             | 51° 55.9' N<br>4° 02.2' E | <b>Iso.W.R.G.</b><br>period 3s                | 79<br>24      | W. 13<br>R. 10<br>G. 10 | Red and white checkered post.   | G. 247°30'-248°30', W.-250°30', R.-251°30'.   |
| 9702<br><i>B 0647.7</i>          | --Einde Amazonehaven, front.           | 51° 56.7' N<br>4° 02.3' E | <b>Iso.W.</b><br>period 6s                    |               |                         |   |   |
| 9703<br><i>B 0647.701</i>        | ---Rear, 258°.                         | 51° 56.7' N<br>4° 02.2' E | <b>Iso.W.</b><br>period 6s                    |               |                         |   | Synchronized with front.  |
| 9703.1<br><i>B 0633.7</i>        | -Europahavn, EON 1.                    | 51° 57.7' N<br>4° 01.8' E | <b>Fl.(5)Y.</b><br>period 20s                 |               |                         |   |   |
| 9703.2<br><i>B 0633.71</i>       | --EON 2.                               | 51° 57.7' N<br>4° 01.8' E | <b>Fl.(5)Y.</b><br>period 10s                 |               |                         |   |   |
| <b>ROTTERDAMSCH E WATERWEG:</b>  |  |                           |   |               |                         |   |   |
| 9704<br><i>B 0662</i>            | -Poortershaven Range, No 8, front.     | 51° 56.1' N<br>4° 13.1' E | <b>L.Fl.R.</b><br>period 8s<br>fl. 3s, ec. 5s | 16<br>5       | 8                       | Dolphin, red daymark; 10.   | Intensified 322°-329°.  |
| 9708<br><i>B 0662.1</i>          | --Rear, 325 meters 325°30' from front. | 51° 56.2' N<br>4° 12.9' E | <b>F.R.</b>                                   |               | 10                      | Mast.   | Visible 322°-329°.  |
| 9716<br><i>B 0670.2</i>          | -Maassluis, E. mole, head.             | 51° 55.0' N<br>4° 14.9' E | <b>F.G.</b>                                   | 23<br>7       |                         | Post; 16.   |   |
| 9720<br><i>B 0670</i>            | --W. mole, head.                       | 51° 55.0' N<br>4° 14.8' E | <b>F.R.</b>                                   | 23<br>7       |                         | Post; 16.   |   |
| 9724<br><i>B 0673</i>            | -Blankenburg Range, front.             | 51° 54.0' N<br>4° 16.3' E | <b>Iso.W.</b><br>period 4s                    | 33<br>10      | 12                      | White tower, black bands; 13.   | Visible 274°30'-289°30'. Shown 24 hours.  |
| 9728<br><i>B 0673.1</i>          | --Rear, 260 meters 282° from front.    | 51° 54.0' N<br>4° 16.1' E | <b>Iso.W.</b><br>period 4s                    | 59<br>18      | 12                      | White tower, black bands; 39.   | Visible 274°30'-289°30'. Shown 24 hours. Synchronized with front.   |
| 9732<br><i>B 0711.4</i>          | -Oude Maas.                            | 51° 53.5' N<br>4° 19.6' E | <b>Iso.W.</b><br>period 2s                    |               |                         | Red and green beacon, red triangular daymark point down, above green triangular daymark point up. |   |
| 9736<br><i>B 0712</i>            | --Range, front.                        | 51° 52.8' N<br>4° 19.7' E | <b>Iso.W.</b><br>period 8s                    | 43<br>13      | 15                      | Post.   | Visible 150°-165°. Shown 24 hours.  |

| (1)<br>No.                       | (2)<br>Name and Location               | (3)<br>Position           | (4)<br>Characteristic   | (5)<br>Height | (6)<br>Range | (7)<br>Structure              | (8)<br>Remarks  |
|----------------------------------|--|---------------------------|---|---------------|--------------|-------------------------------|---|
| <b>THE NETHERLANDS-NORTH SEA</b> |  |                           |   |               |              |                               |   |
| 9740<br>B 0712.1                 | --Rear, 115 meters 157°30' from front. | 51° 52.8' N<br>4° 19.8' E | <b>Iso.W.</b><br>period 8s  | 49<br>15      | 15           | Post.                         | Visible 150°-165°. Shown 24 hours. Synchronized with front.                 |
| SCHEVENINGEN:                    |  |                           |   |               |              |                               |   |
| 9748<br>B 0750                   | <b>Scheveningen.</b>                   | 52° 06.2' N<br>4° 16.1' E | <b>Fl.(2)W.</b><br>period 10s<br>fl. 0.2s, ec. 2.3s<br>fl. 0.2s, ec. 7.3s | 161<br>49     | 29           | Brown tower; 98.              |   |
| 9752<br>B 0751                   | -Approach Range, front.                | 52° 06.0' N<br>4° 15.4' E | <b>Iso.W.</b><br>period 4s  | 52<br>16      | 14           | White mast.                   | Visible 148°30'-163°30'. Shown 24 hours.                                    |
| 9756<br>B 0751.1                 | --Rear, 258 meters 156° from front.    | 52° 05.9' N<br>4° 15.5' E | <b>Iso.W.</b><br>period 4s  | 79<br>24      | 14           | White mast.                   | Visible 148°30'-163°30'. Shown 24 hours. Synchronized with front.           |
| 9757<br>B 0753.4                 | -N. side, outer head.                  | 52° 06.0' N<br>4° 15.6' E | <b>Iso.R.</b><br>period 8s  |               |              | Post.                         |   |
| 9757.1<br>B 0753.45              | --Inner head.                          | 52° 06.0' N<br>4° 15.7' E | <b>Iso.R.</b><br>period 8s  |               |              |                               |   |
| 9758<br>B 0753.2                 | -S. side, outer head.                  | 52° 05.9' N<br>4° 15.6' E | <b>Iso.G.</b><br>period 8s  |               |              | Post.                         |   |
| 9758.1<br>B 0753.25              | --Inner head.                          | 52° 05.9' N<br>4° 15.6' E | <b>Iso.G.</b><br>period 8s  |               |              |                               |   |
| 9759<br>B 0754.8                 | -2nd Haven, N. side.                   | 52° 05.9' N<br>4° 16.2' E | <b>F.R.</b>   |               |              |                               | Traffic signal.   |
| 9759.1                           | --S. side.                             | 52° 05.9' N<br>4° 16.2' E | <b>F.G.</b>   |               |              |                               |   |
| 9760<br>B 0753.1                 | -Harbor Range, front.                  | 52° 05.8' N<br>4° 15.9' E | <b>Iso.G.</b><br>period 4s  |               | 11           | White post.                   | Shown 24 hours.   |
| 9764<br>B 0753.11                | --Rear, 50 meters 131° from front.     | 52° 05.8' N<br>4° 15.9' E | <b>Iso.G.</b><br>period 4s  |               | 11           | White post.                   | Shown 24 hours. Synchronized with front. Intensified in reduced visibility. |
| 9765<br>B 0754.05                | -1st Haven, S. side.                   | 52° 05.9' N<br>4° 15.8' E | <b>Oc.G.</b><br>period 6s<br>lt. 4s, ec. 2s                               |               |              |                               |   |
| 9766<br>B 0754                   | --N. side.                             | 52° 05.9' N<br>4° 15.8' E | <b>Oc.R.</b><br>period 6s<br>lt. 4s, ec. 2s                               |               |              |                               |   |
| 9767                             | -3rd Haven, W. side.                   | 52° 05.8' N<br>4° 15.6' E | <b>F.R.</b>   |               |              |                               |   |
| 9768<br>B 0751.6                 | -Noorderhoofd, head.                   | 52° 06.2' N<br>4° 15.4' E | <b>F.R.</b>   | 39<br>12      | 9            | Red tower, white bands; 26.   |   |
| 9772<br>B 0751.4                 | -Zuiderhoofd, head.                    | 52° 06.2' N<br>4° 15.2' E | <b>F.G.</b>   | 39<br>12      | 9            | Green tower, white bands; 26. |   |
| 9776<br>B 0752                   | -Zuiderbinnenhoofd.                    | 52° 06.0' N<br>4° 15.4' E | <b>Iso.G.</b><br>period 4s  | 33<br>10      | 5            | Post; 13.                     |   |
| 9780<br>B 0753                   | -Noorderbinnenhoofd, head.             | 52° 06.1' N<br>4° 15.5' E | <b>Iso.R.</b><br>period 4s  | 33<br>10      | 5            | Post; 13.                     |   |
| 9782<br>B 0755                   | -Promenade Pier, head.                 | 52° 07.1' N<br>4° 16.8' E | <b>Iso.W.</b><br>period 5s  | 146<br>44     | 5            | Concrete tower; 108.          | Visible 013°-253°.  |
| 9784<br>B 0760                   | <b>Noordwijkaan Zee.</b>               | 52° 14.9' N<br>4° 26.0' E | <b>Oc.(3)W.</b><br>period 20s   | 108<br>33     | 18           | White tower; 85.              |   |

| (1)<br>No.                       | (2)<br>Name and Location               | (3)<br>Position           | (4)<br>Characteristic                           | (5)<br>Height | (6)<br>Range   | (7)<br>Structure                   | (8)<br>Remarks   |
|----------------------------------|--|---------------------------|---|---------------|----------------|------------------------------------|--|
| <b>THE NETHERLANDS-NORTH SEA</b> |  |                           |   |               |                |                                    |  |
| HAVEN VAN IJMUIDEN:              |  |                           |   |               |                |                                    |  |
| 9792<br>B 0766                   | -Entrance Range, front.                | 52° 27.7' N<br>4° 34.5' E | <b>F.W.R.</b>                                   | 102<br>31     | W. 16<br>R. 13 | Brown round tower; 79.             | W. 050°-122°, R.-145°, W.-160°.<br>Traffic signal.<br>F.W. 5M, visible 090°30'-110°30' by day.<br>Tide signal. |
| 9796<br>B 0766.1                 | --Rear, 570 meters 100°30' from front. | 52° 27.7' N<br>4° 35.0' E | <b>Fl.W.</b><br>period 5s<br>fl. 0.3s, ec. 4.7s | 174<br>53     | 29             | Brown round tower; 141.            | Visible 019°-199°.<br>F.W. 5M, visible 090°30'-110°30' by day.   |
| 9800<br>B 0768                   | -N. breakwater, outer head.            | 52° 28.1' N<br>4° 32.6' E | <b>F.R.</b>                                     | 50<br>15      | 10             | Red square tower, white bands.     |  |
| 9804<br>B 0769                   | --Inner head.                          | 52° 28.0' N<br>4° 33.2' E | <b>Iso.R.</b><br>period 8s                      | 40<br>12      | 9              | Red beacon, white bands.           |  |
| 9808<br>B 0767                   | -S. breakwater, outer head.            | 52° 27.8' N<br>4° 31.9' E | <b>F.G.</b>                                     | 50<br>15      | 10             | Green square tower, white bands.   | Fl.W. 3s shown in fog.   |
| 9812<br>B 0770                   | --Inner head.                          | 52° 27.7' N<br>4° 33.3' E | <b>Iso.G.</b><br>period 8s                      | 40<br>12      | 9              | Green beacon, white band.          |  |
| 9832<br>B 0783                   | -Fish Harbor, W. side of entrance.     | 52° 27.8' N<br>4° 34.7' E | <b>F.G.</b>                                     | 26<br>8       |                | Post; 20.                          | Visible 085°-308°.<br>Fog light.<br>Iso.R. 3s warning light.   |
| 9836<br>B 0784                   | --E. side of entrance.                 | 52° 27.8' N<br>4° 35.0' E | <b>F.R.</b>                                     | 26<br>8       |                | Post; 16.                          | Visible 284°-181°.<br>2 F.Y. shown in fog.   |
| 9839<br>B 0786                   | --W. side Fort Island.                 | 52° 27.8' N<br>4° 34.4' E | <b>Iso.R.</b><br>period 6s                      |               |                |                                    |  |
| 9840<br>B 0785                   | --S. side entrance.                    | 52° 27.8' N<br>4° 33.8' E | <b>Iso.G.</b><br>period 6s                      |               |                |                                    |  |
| 9841<br>B 0786.9                 | -Midden Sluiseiland.                   | 52° 28.0' N<br>4° 35.5' E | <b>Iso.W.</b><br>period 2s                      |               |                |                                    |  |
| -Noorder Buitenkanal:            |  |                           |   |               |                |                                    |  |
| 9844<br>B 0789                   | -Entrance Range, front.                | 52° 28.2' N<br>4° 35.6' E | <b>Iso.W.</b><br>period 3s                      | 26<br>8       |                | Green post.                        | Visible 031°-121°.   |
| 9848<br>B 0789.1                 | --Rear, 530 meters 077° from front.    | 52° 28.3' N<br>4° 36.1' E | <b>Iso.W.</b><br>period 3s                      | 56<br>17      |                | Green mast, white daymark.         | Visible 031°-121°.<br>Synchronized with front.   |
| 9854                             | -Ijmuiden Approach Buoy.               | 52° 28.7' N<br>4° 23.9' E | <b>Mo.(A)W.</b><br>period 8s                    |               |                | SAFE WATER<br>RW, spherical.       |  |
|                                  | -RACON                                 |                           | <b>Y(- • - -)</b><br>period 60s                 |               | 10             |                                    | (3 & 10cm).  |
| 9856<br>B 0800                   | -Foundry Basin Range, front.           | 52° 28.4' N<br>4° 36.1' E | <b>Iso.G.</b><br>period 2s                      | 39<br>12      |                | Post; 15.                          |  |
| 9860<br>B 0800.1                 | --Rear, 150 meters 065° from front.    | 52° 28.5' N<br>4° 36.2' E | <b>Iso.G.</b><br>period 2s                      | 56<br>17      |                | Post; 27.                          | Synchronized with front.   |
| 9864<br>B 0842                   | <b>Egmond aan Zee.</b>                 | 52° 37.1' N<br>4° 37.3' E | <b>Iso.W.R.</b><br>period 10s                   | 121<br>37     | W. 18<br>R. 14 | White tower; 92.                   | W. 010°-175°, R.-188°.   |
| 9868                             | Platform Helm A, RACON.                | 52° 52.4' N<br>4° 08.6' E | <b>T(-)</b>                                     |               | 12             |                                    | (3 & 10cm).  |
| 9870                             | Logger L-16 Platform, RACON.           | 53° 00.9' N<br>4° 13.0' E | <b>X(- • • -)</b>                               |               | 12             |                                    | Azimuth coverage 060°-270°. (3 & 10cm).  |
| 9876<br>B 0849                   | -Zanddijk.                             | 52° 52.8' N<br>4° 42.9' E | <b>Oc.W.R.G.</b><br>period 10s                  | 105<br>32     | 8              | Brown tower; 56.                   | G. 041°-088°, W.-094°, R.-120°.  |
| 9878                             | Schulpengat Fairway Buoy SG.           | 52° 52.9' N<br>4° 38.0' E | <b>Mo.(A)W.</b><br>period 8s                    |               |                | SAFE WATER<br>RW, pillar, topmark. |  |
|                                  | RACON                                  |                           | <b>Z(- • • •)</b>                               |               |                |                                    | (3 & 10cm).  |

| (1)<br>No.                       | (2)<br>Name and Location                     | (3)<br>Position           | (4)<br>Characteristic   | (5)<br>Height    | (6)<br>Range                                 | (7)<br>Structure                                | (8)<br>Remarks   |
|----------------------------------|--|---------------------------|---|------------------|--|---|--|
| <b>THE NETHERLANDS-NORTH SEA</b> |  |                           |   |                  |  |   |  |
| 9880<br><i>B 0856</i>            | -Huisduinen.                                 | 52° 57.1' N<br>4° 43.3' E | <b>F.W.R.</b>   |                  | 92<br><b>28</b>                              | W. 14<br>R. 11                                  | Square brick tower; 59.<br>W. 070°-113°, R.-158°, W.-208°.   |
| 9884<br><i>B 0858</i>            | -Kijkduin, rear.                             | 52° 57.3' N<br>4° 43.6' E | <b>Fl.(4)W.</b><br>period 20s<br>fl. 0.2s, ec. 3.1s<br>fl. 0.2s, ec. 3.1s<br>fl. 0.2s, ec. 3.1s<br>fl. 0.2s, ec. 9.9s | 187<br><b>57</b> | <b>30</b>                                    | Brown tower; 184.                               | In line 253°30' with 9912.   |
| ZEEGAT VAN TEXEL:                |  |                           |   |                  |  |   |  |
| 9900<br><i>B 0864</i>            | -Den Helder Range, front.                    | 52° 57.4' N<br>4° 47.1' E | <b>Oc.G.</b><br>period 5s<br>lt. 4s, ec. 1s   | 56<br><b>17</b>  | 3  | Building, black triangular<br>daymark point up. | Visible 183°30'-198°30'.   |
| 9904<br><i>B 0864.1</i>          | --Rear, 275 meters 191° from<br>front.       | 52° 57.2' N<br>4° 47.0' E | <b>Oc.G.</b><br>period 5s<br>lt. 4s, ec. 1s   | 85<br><b>26</b>  | 3  | Gray post.                                      | Visible 183°30'-198°30'.<br>Synchronized with front.   |
| 9912<br><i>B 0865</i>            | --Nieuwediep, front, W.<br>breakwater, head. | 52° 58.0' N<br>4° 47.1' E | <b>Q.G.</b>   | 43<br><b>13</b>  | 8  | Mast; 23.                                       | In line 253°30' with rear 9884.<br><b>Horn:</b> 1 bl. ev. 20s (bl. 3s, si.<br>17s).                              |
| 9924<br><i>B 0867</i>            | ---W. side.                                  | 52° 57.8' N<br>4° 47.1' E | <b>Fl.G.</b><br>period 5s   | 33<br><b>10</b>  | 4  | Square post; 30.                                | Traffic signal WNW.  |
| 9928<br><i>B 0867.5</i>          | -Nieuwe Haven.                               | 52° 57.8' N<br>4° 47.4' E | <b>Q.R.</b>   | 33<br><b>10</b>  | 4  | Square post; 16.                                |  |
| 9936<br><i>B 0870</i>            | -E. harbor, head.                            | 52° 57.6' N<br>4° 46.7' E | <b>Oc.R.</b><br>period 5s<br>lt. 3s, ec. 2s   | 33<br><b>10</b>  | 4  | Mast, red lantern; 16.                          |  |
| 9948<br><i>B 0852.1</i>          | -Den Hoorn.                                  | 53° 01.6' N<br>4° 45.1' E | <b>Dir.W.R.G.</b>   | 62<br><b>19</b>  | W. <b>22</b><br>R. <b>18</b><br>G. <b>18</b> | Church tower.                                   | F.G. 025°06'-025°36',<br>Al.W.G.-026°18', F.W.-<br>026°42', Al.W.R.-027°24',<br>F.R.-027°54'.<br>Shown 24 hours. |
| -Texel:                          |  |                           |   |                  |  |   |  |
| 9950<br><i>B 0876</i>            | --W. mole, head.                             | 53° 00.1' N<br>4° 47.0' E | <b>F.R.</b>   | 30<br><b>9</b>   | 5  | Red and white post; 10.                         |  |
| 9951<br><i>B 0876.2</i>          | --E. mole, head.                             | 53° 00.1' N<br>4° 47.1' E | <b>F.G.</b>   | 30<br><b>9</b>   | 4  | Green and white post; 10.                       | F.Y. shown in fog.   |
| 9952<br><i>B 0859</i>            | --Schilbolsnol.                              | 53° 00.5' N<br>4° 45.7' E | <b>F.W.R.G.</b>   | 92<br><b>28</b>  | W. 8<br>R. 8<br>G. 5                         | Green post; 69.                                 | W. 333°-026°, G.-033°, W.-<br>038°, R.-070°.   |
| -Oudeschild:                     |  |                           |   |                  |  |   |  |
| 9956<br><i>B 0881</i>            | --S. mole, head.                             | 53° 02.3' N<br>4° 51.2' E | <b>F.R.</b>   | 26<br><b>8</b>   |  | Red post, white bands; 23.                      | Fog light.<br>F.R. traffic light.  |
| 9960<br><i>B 0886</i>            | -Eirland.                                    | 53° 10.9' N<br>4° 51.3' E | <b>Fl.(2)W.</b><br>period 10s<br>fl. 0.2s, ec. 2.3s<br>fl. 0.2s, ec. 7.3s   | 174<br><b>53</b> | <b>29</b>                                    | Red tower; 115.                                 |  |
| VLIELAND:                        |  |                           |   |                  |  |   |  |
| 9968<br><i>B 0894</i>            | <b>Vuurduin.</b>                             | 53° 17.7' N<br>5° 03.5' E | <b>Iso.W.</b><br>period 4s  | 177<br><b>54</b> | <b>20</b>                                    | Red tower; 55.                                  | Unintensified 313°-043°.   |
| 9972<br><i>B 0896</i>            | -E. mole, head.                              | 53° 17.8' N<br>5° 05.6' E | <b>F.G.</b>   |                  |  | Post.   |  |
| 9976<br><i>B 0898</i>            | -W. mole, head.                              | 53° 17.7' N<br>5° 05.6' E | <b>F.R.</b>   |                  |  | Post.   | F.R. traffic light.  |
| 9977<br><i>B 0890</i>            | -VL-CENTER LANBY.                            | 53° 27.0' N<br>4° 40.0' E | <b>Fl.W.</b><br>period 5s   |                  | 12   | SAFE WATER<br>RW.                               |  |
|                                  | -RACON                                       |                           | <b>C(- • - •)</b>   |                  | 12   |   | (3 & 10cm).  |



| (1)<br>No.                       | (2)<br>Name and Location                 | (3)<br>Position           | (4)<br>Characteristic   | (5)<br>Height    | (6)<br>Range          | (7)<br>Structure               | (8)<br>Remarks   |
|----------------------------------|--|---------------------------|---|------------------|-----------------------|--------------------------------|--|
| <b>THE NETHERLANDS-NORTH SEA</b> |  |                           |   |                  |                       |                                |  |
| 9979<br><i>A 7581.85</i>         | -Wintershall L8-G Platform.              | 53° 34.9' N<br>4° 36.3' E | <b>Mo.(U)W.</b><br>period 15s   |                  |                       |                                | <b>Horn:</b> Mo.(U) ev. 30s.   |
|                                  |  |                           | <b>2 F.R.</b>   |                  |                       |                                |  |
|                                  | -RACON                                   |                           | <b>G(— — •)</b><br>period 1s  |                  | 12                    |                                | Azimuth coverage 180°-340°.<br>(3 & 10cm).   |
| 9979.5                           | -Platform L2-FA-1, RACON.                | 53° 57.7' N<br>4° 29.9' E | <b>9(— — — •)</b>   |                  | 12                    |                                | (3 & 10cm).  |
| ZEEGAT VAN TERSCHELLING:         |  |                           |   |                  |                       |                                |  |
| 9980<br><i>B 0904</i>            | <b>-Terschelling (Brandaris).</b>        | 53° 21.6' N<br>5° 12.9' E | <b>Fl.W.</b><br>period 5s<br>fl. 0.3s, ec. 4.7s   | 180<br><b>55</b> | <b>29</b>             | Yellow tower; 172.             | Obscured by dunes on<br>Vlieland and Terschelling.<br>Storm signals.<br>Coast Guard station. |
| 9982<br><i>B 0904.5</i>          | -N. Terschelling, metering<br>station.   | 53° 25.8' N<br>5° 20.1' E | <b>Fl.(5)Y.</b><br>period 20s   |                  |                       |                                | Tide gauge.  |
|                                  | -West Terschelling:                      |                           |   |                  |                       |                                |  |
| 9984<br><i>B 0908</i>            | --W. mole, head.                         | 53° 21.3' N<br>5° 13.1' E | <b>F.R.</b>   | 20<br><b>6</b>   | 5                     | Red post, white bands.         | <b>Horn:</b> 1 bl. ev. 15s (bl. 3s, si.<br>12s).   |
| 9992<br><i>B 0912</i>            | --E. mole, head.                         | 53° 21.3' N<br>5° 13.2' E | <b>F.G.</b>   | 16<br><b>5</b>   | 4                     | Green post, white bands; 16.   |  |
| AMELANDER GAT:                   |  |                           |   |                  |                       |                                |  |
| 9996<br><i>B 0920</i>            | <b>-Ameland.</b>                         | 53° 26.9' N<br>5° 37.5' E | <b>Fl.(3)W.</b><br>period 15s<br>fl. 0.2s, ec. 2.8s<br>fl. 0.2s, ec. 2.8s<br>fl. 0.2s, ec. 8.8s                       | 190<br><b>58</b> | <b>30</b>             | Brown tower, white bands; 181. |  |
| 10000<br><i>B 0924</i>           | -Nes, mole, head.                        | 53° 26.0' N<br>5° 46.5' E | <b>Iso.W.</b><br>period 6s  | 13<br><b>4</b>   | 8                     | House.                         |  |
| 10004<br><i>B 0926</i>           | -Holwerd, pier, head.                    | 53° 23.8' N<br>5° 52.8' E | <b>Oc.W.</b><br>period 6s<br>lt. 4s, ec. 2s   | 23<br><b>7</b>   | 10                    | Gray post.                     |  |
| FRIESCHE GAT:                    |  |                           |   |                  |                       |                                |  |
| 10008<br><i>B 0938</i>           | <b>-Schiermonnikoog.</b>                 | 53° 29.2' N<br>6° 08.8' E | <b>Fl.(4)W.</b><br>period 20s<br>fl. 0.2s, ec. 3.1s<br>fl. 0.2s, ec. 3.1s<br>fl. 0.2s, ec. 3.1s<br>fl. 0.2s, ec. 9.9s | 144<br><b>44</b> | <b>28</b>             | Brown tower; 118.              |  |
|                                  |  |                           | <b>F.W.R.</b>   | 98<br><b>30</b>  | W. <b>15</b><br>R. 12 |                                | W. 210°-221°, R.-230°.   |
| 10009                            | <i>Buoy BR/S.</i>                        | 52° 55.0' N<br>3° 18.0' E | <b>Mo.(A)W.</b><br>period 8s  |                  |                       | SAFE WATER<br>RW, spherical.   |  |
|                                  | RACON                                    |                           | <b>G(— — •)</b>   |                  |                       |                                | (3 & 10cm).  |
| 10010                            | NAM K14-FA1 Platform,<br>RACON.          | 53° 16.2' N<br>3° 37.7' E | <b>7(— — • • •)</b>   |                  | 12                    |                                | (3 & 10cm).  |
| 10011                            | Placid K9C-PA Platform,<br>RACON.        | 53° 39.2' N<br>3° 52.5' E | <b>8(— — — • •)</b>   |                  | 12                    |                                | (3 & 10cm).  |
| 10013<br><i>A 7682</i>           | Elf Petroland Platform, F15-A,<br>RACON. | 54° 13.0' N<br>4° 49.7' E | <b>U(• • —)</b>   |                  |                       |                                | (3 & 10cm).  |
| 10013.1<br><i>A 7682.5</i>       | NAM F3-OLT Platform,<br>RACON.           | 54° 51.3' N<br>4° 43.6' E | <b>D(— • •)</b>   |                  |                       |                                | (3 & 10cm).  |

| (1)<br>No.                       | (2)<br>Name and Location  | (3)<br>Position           | (4)<br>Characteristic         | (5)<br>Height | (6)<br>Range | (7)<br>Structure             | (8)<br>Remarks               |
|----------------------------------|---------------------------|---------------------------|-------------------------------|---------------|--------------|------------------------------|------------------------------|
| <b>THE NETHERLANDS-NORTH SEA</b> |                           |                           |                               |               |              |                              |                              |
| 10013.3                          | <i>Buoy EF.</i>           | 54° 03.5' N<br>4° 59.8' E | <b>L.F.I.W.</b><br>period 10s |               |              | SAFE WATER<br>RW, spherical. |                              |
|                                  | RACON                     |                           | <b>T(-)</b>                   |               |              |                              | (3 & 10cm).                  |
| 10013.5                          | <i>Buoy EF/B.</i>         | 54° 06.7' N<br>5° 40.0' E | <b>Fl.(4)Y.</b><br>period 10s |               |              | SPECIAL<br>Y, spherical.     |                              |
|                                  | RACON                     |                           | <b>M(- -)</b>                 |               |              |                              | (3 & 10cm).                  |
| 10014<br><i>B 1051</i>           | <b>GW/EMS LIGHTFLOAT.</b> | 54° 10.0' N<br>6° 20.8' E | <b>Iso.W.</b><br>period 8s    | 56<br>17      | 17           | GW/EMS on red hull.          | <b>Horn:</b> Mo.(R) ev. 30s. |
|                                  | RACON                     |                           | <b>T(-)</b><br>period 55s     |               | 6            |                              | (3 & 10cm).                  |

# Section 9

## North Sea-Germany and Denmark

| (1)<br>No.               | (2)<br>Name and Location   | (3)<br>Position           | (4)<br>Characteristic   | (5)<br>Height    | (6)<br>Range                                 | (7)<br>Structure   | (8)<br>Remarks                              |
|--------------------------|----------------------------|---------------------------|---|------------------|--|--|---|
| <b>GERMANY-NORTH SEA</b> |                            |                           |   |                  |  |  |   |
| 10016                    | <i>Borkumriff Buoy.</i>    | 53° 47.5' N<br>6° 22.1' E | <b>Oc.W.</b><br>period 4s   |                  |  | SAFE WATER<br>RW, pillar, topmark.   |   |
|                          | RACON                      |                           | <b>T(-)</b><br>period 48s   |                  |  |  |   |
| 10024                    | <i>Westerems Buoy.</i>     | 53° 37.2' N<br>6° 19.5' E | <b>Iso.W.</b><br>period 4s  |                  |  | SAFE WATER<br>RW, pillar, topmark.   |   |
|                          | RACON                      |                           | <b>T(-)</b>   |                  | 8  |  |   |
| 10028                    | <i>Osterems Buoy.</i>      | 53° 42.0' N<br>6° 36.0' E | <b>Iso.W.</b><br>period 4s  |                  |  | SAFE WATER<br>RW, pillar, topmark.   |   |
| 10032<br><i>B 0970</i>   | <b>Borkum Grosser.</b>     | 53° 35.3' N<br>6° 39.7' E | <b>Fl.(2)W.</b><br>period 12s<br>fl. 0.2s, ec. 2.8s<br>fl. 0.2s, ec. 8.8s   | 207<br><b>63</b> | <b>24</b>                                    | Brown tower; 197.  |   |
|                          |                            |                           | <b>F.W.R.G.</b>   | 151<br><b>46</b> | W. <b>19</b><br>R. <b>15</b><br>G. <b>15</b> |  | G. 107°24'-109°, W.-111°12',<br>R.-112°36'. |
| 10035<br><i>B 0972.5</i> | -Tide gauge.               | 53° 34.6' N<br>6° 39.7' E | <b>Fl.Y.</b><br>period 4s   | 33<br><b>10</b>  | 5  | Yellow pile.   |   |
|                          | WESTEREMS:                 |                           |   |                  |  |  |   |
| 10040<br><i>B 0976</i>   | -Fischer Balje.            | 53° 33.2' N<br>6° 42.9' E | <b>Oc.(2)W.</b><br>period 16s<br>lt. 3s, ec. 1s<br>lt. 11s, ec. 1s  | 49<br><b>15</b>  | 4  | Red tower, white band; 52.<br>Floodlit.  | Visible 260°-123°.                          |
| 10040.5<br><i>B 0981</i> | -Die Ems.                  | 53° 28.5' N<br>6° 49.3' E | <b>Fl.(5)Y.</b><br>period 20s   |                  |  |  |   |
| 10041                    | -Doekegat beacon 1.        | 53° 27.3' N<br>6° 51.2' E | <b>Q.W.</b>   |                  |  | N. CARDINAL<br>BY, beacon, topmark.  |   |
| 10041.5                  | -Doekegat beacon 2.        | 53° 27.0' N<br>6° 52.0' E | <b>Q.W.</b>   |                  |  | N. CARDINAL<br>BY, beacon, topmark.  |   |
| 10042<br><i>B 0987.2</i> | -Werkhaven, N. mole, head. | 53° 26.7' N<br>6° 52.9' E | <b>Fl.(3)Y.</b><br>period 12s   |                  |  |  |   |
| 10043<br><i>B 0987</i>   | --S. mole, head.           | 53° 26.5' N<br>6° 53.1' E | <b>Fl.(3)Y.</b><br>period 12s   |                  |  |  |   |
| 10044<br><i>B 0987.4</i> | --Pier, head.              | 53° 26.6' N<br>6° 53.1' E | <b>Q.W.</b>   |                  |  | N. CARDINAL<br>BY, beacon, topmark.  |   |
| 10045<br><i>B 0989</i>   | --Tide gauge.              | 53° 26.0' N<br>6° 55.6' E | <b>Fl.Y.</b><br>period 4s<br>fl. 1s, ec. 3s   | 36<br><b>11</b>  | 7  | Yellow pile.   |   |
| 10048<br><i>B 0983</i>   | <b>Campen.</b>             | 53° 24.3' N<br>7° 00.9' E | <b>Fl.W.</b><br>period 5s<br>fl. 0.7s, ec. 4.3s   | 203<br><b>62</b> | <b>29</b>                                    | Red and white tower, two<br>galleries, white central<br>column, green cupola; 213. | Visible 126°18'-126°48'.                    |
|                          |                            |                           | <b>F.W.</b>   |                  | <b>30</b>                                    |  | Visible 126°48'-127°06'.                    |
|                          |                            |                           | <b>Fl.(4)W.</b><br>period 15s<br>fl. 0.7s, ec. 2.3s<br>fl. 0.7s, ec. 2.3s<br>fl. 0.7s, ec. 2.3s<br>fl. 0.7s, ec. 5.3s |                  | <b>29</b>                                    |  | Visible 127°06'-127°36'.                    |

| (1)<br>No.               | (2)<br>Name and Location                           | (3)<br>Position           | (4)<br>Characteristic   | (5)<br>Height | (6)<br>Range            | (7)<br>Structure  | (8)<br>Remarks  |
|--------------------------|--|---------------------------|---|---------------|-------------------------|---|---|
| <b>GERMANY-NORTH SEA</b> |  |                           |   |               |                         |   |   |
| 10052<br><i>B 1010</i>   | -Knock.  | 53° 20.3' N<br>7° 01.4' E | <b>F.W.R.G.</b>   | 92<br>28      | W. 12<br>R. 9<br>G. 8   | Gray tower, white spherical radome; 180.                          | W. 270°-299°, R.-008°18', G.-023°, W.-026°48', R.-039°, W.-073°, R.-119°, W.-154°.                          |
| 10053<br><i>B 1044</i>   | Memmert.   | 53° 37.5' N<br>6° 54.6' E | <b>Fl.Y.</b><br>period 4s   | 16<br>5       |                         | Yellow pillar.  |   |
| 10054<br><i>B 1046</i>   | Leysiel.   | 53° 32.2' N<br>7° 02.4' E | <b>F.W.R.G.</b>   | 33<br>10      | W. 8<br>R. 6<br>G. 5    | Pile.   | G. 156°-164°, W.-166°, R.-174°.   |
| 10055                    | Emder Fahrwasser.                                  | 53° 19.5' N<br>7° 05.0' E | <b>Fl.Y.</b><br>period 4s   |               |                         |   |   |
| 10056<br><i>B 1012</i>   | Wybelsum.  | 53° 20.2' N<br>7° 06.5' E | <b>F.W.R.</b>   | 52<br>16      | W. 6<br>R. 4            | White tower, red bands, lantern, radome; 59.                      | W. 295°-320°, R.-024°, W.-049°.   |
| 10060<br><i>B 1052</i>   | <b>GERMAN BIGHT<br/>LIGHTFLOAT.</b>                | 54° 10.7' N<br>7° 26.1' E | <b>Iso.W.</b><br>period 8s  |               | 17                      | Red hull; 39.<br>Floodlit.  | <b>Horn:</b> Mo.(R) ev. 30s.  |
| NORDERNEY:               |  |                           |   |               |                         |   |   |
| 10072<br><i>B 1054</i>   | -Near center of island.                            | 53° 42.6' N<br>7° 13.8' E | <b>Fl.(3)W.</b><br>period 12s<br>fl. 0.2s, ec. 2.8s<br>fl. 0.2s, ec. 2.8s<br>fl. 0.2s, ec. 5.8s | 194<br>59     | 23                      | Red tower; 177.   | Unintensified 067°-077° and 270°-280°.  |
| 10092<br><i>B 1074</i>   | -Fish Harbor, W. mole, head.                       | 53° 41.9' N<br>7° 09.9' E | <b>Oc.(2)R.</b><br>period 9s  | 43<br>13      | 4                       | Red tower, white bands; 36.                                       |   |
| NORDDEICH:               |  |                           |   |               |                         |   |   |
| 10100<br><i>B 1078</i>   | -W. wall, N. head.                                 | 53° 38.7' N<br>7° 09.0' E | <b>F.G.</b>   | 26<br>8       | 4                       | Green framework tower; 30.  | Visible 021°-327°.  |
| 10104<br><i>B 1080</i>   | -E. wall, N. head.                                 | 53° 38.8' N<br>7° 09.0' E | <b>F.R.</b>   | 27<br>8       | 4                       | Red framework tower; 26.  | Visible 327°-237°.<br>F.W. 115°-270° shown in fog.  |
| 10108<br><i>B 1082</i>   | -Range, front.                                     | 53° 38.4' N<br>7° 09.4' E | <b>Iso.W.R.</b><br>period 6s  | 20<br>6       | W. 6<br>R. 4            | Gray pile, platform; 23.  | R. 078°-122°, W.-150°.  |
| 10112<br><i>B 1082.1</i> | --Rear, 133 meters 144° from front.                | 53° 38.3' N<br>7° 09.5' E | <b>Iso.W.</b><br>period 6s  | 30<br>9       | 6                       | Gray pile, platform; 33.  | Synchronized with front.  |
| 10116<br><i>B 1084</i>   | -1,463 meters from N. end of E. wall Range, front. | 53° 38.5' N<br>7° 09.2' E | <b>Iso.W.R.</b><br>period 3s  | 16<br>5       | W. 6<br>R. 4            | Gray pile, platform; 23.  | W. 340°-022°30', R.-098°.   |
| 10120<br><i>B 1084.1</i> | --Rear, 110 meters 350° from front.                | 53° 38.5' N<br>7° 09.2' E | <b>Iso.W.</b><br>period 3s  | 26<br>8       | 6                       | Gray pile, platform; 33.  | Synchronized with front.  |
| 10124<br><i>B 1092</i>   | -Langeoog, W. mole, head.                          | 53° 43.5' N<br>7° 30.1' E | <b>Oc.W.R.G.</b><br>period 6s<br>lt. 5s, ec. 1s   | 26<br>8       | W. 7<br>R. 5<br>G. 4    | Red mast, lantern; 13.  | G. 064°-070°, W.-074°, R.-326°, W.-330°, G.-335°, R.-064°.<br><b>Horn:</b> 1 bl. ev. 30s (bl. 9s, si. 21s). |
| 10128<br><i>B 1096.5</i> | -Spiekeroog.                                       | 53° 45.0' N<br>7° 41.3' E | <b>F.R.</b>   | 19<br>6       | 4                       | Red post, platform; 23.   | Visible 197°-114°.  |
| 10136<br><i>B 1312</i>   | <b>-Helgoland.</b>                                 | 54° 10.9' N<br>7° 52.9' E | <b>Fl.W.</b><br>period 5s<br>fl. 0.1s, ec. 4.9s   | 270<br>82     | 28                      | Brown square tower, white cupola, antenna; 111.                   | F.R. on radio masts 0.1 mile SSE. and 0.4 mile NNW.   |
| 10140                    | -Approach Whistle Buoy.                            | 54° 09.0' N<br>7° 54.0' E | <b>Q.(3)W.</b><br>period 10s  |               |                         | E. CARDINAL<br>BYB, pillar, topmark.                              |   |
| 10148<br><i>B 1326</i>   | -Dune entrance Range, front.                       | 54° 10.9' N<br>7° 54.8' E | <b>Iso.W.</b><br>period 4s  | 36<br>11      | 8                       | Red mast, white bands, platform, triangular daymark point up; 46. |   |
| 10152<br><i>B 1326.1</i> | --Rear, 120 meters 020° from front.                | 54° 10.9' N<br>7° 54.8' E | <b>Iso.W.R.G.</b><br>period 4s  | 56<br>17      | W. 11<br>R. 10<br>G. 10 | Red tower, white band; 49.  | G. 106°-125°, W.-130°, R.-144°, G. 010°-018°30', W.-021°, R.-030°.<br>Synchronized with front.              |

| (1)<br>No.                 | (2)<br>Name and Location                      | (3)<br>Position           | (4)<br>Characteristic   | (5)<br>Height | (6)<br>Range            | (7)<br>Structure  | (8)<br>Remarks  |
|----------------------------|---|---------------------------|---|---------------|-------------------------|---|---|
| <b>GERMANY-NORTH SEA</b>   |   |                           |   |               |                         |   |   |
| <b>-Vorhafen:</b>          |   |                           |   |               |                         |   |   |
| 10156<br><i>B 1318</i>     | --E. mole, S. elbow.                          | 54° 10.4' N<br>7° 54.0' E | <b>Oc.W.G.</b><br>period 6s<br>lt. 5s, ec. 1s                     | 16<br>5       | W. 6<br>G. 3            | Gray mast; 7.   | W. 203°-250°, G.-109°.                                    |
| 10160<br><i>B 1318.2</i>   | ---Head.                                      | 54° 10.4' N<br>7° 53.9' E | <b>F.G.</b>   | 23<br>7       | 3                       | Gray mast; 7.   | Visible 289°-180°.  |
| 10164<br><i>B 1320</i>     | --S. mole, head.                              | 54° 10.3' N<br>7° 54.0' E | <b>Oc.(2)R.</b><br>period 12s<br>lt. 3s, ec. 1s<br>lt. 7s, ec. 1s | 23<br>7       | 4                       | Red mast; 7.  | Visible 101°-334°.  |
| <b>F.R.</b>                |   |                           |   |               |                         |   |   |
| <b>-Binnenhafen:</b>       |   |                           |   |               |                         |   |   |
| 10168<br><i>B 1324</i>     | --Entrance Range, front.                      | 54° 10.8' N<br>7° 53.4' E | <b>Oc.R.</b><br>period 6s<br>lt. 5s, ec. 1s                       | 26<br>8       | 6                       | Red mast, white band, red<br>triangular daymark point up;<br>23.              |   |
| 10172<br><i>B 1324.1</i>   | ---Rear, 50 meters 302°12'<br>from front.     | 54° 10.8' N<br>7° 53.4' E | <b>Oc.R.</b><br>period 6s<br>lt. 5s, ec. 1s                       | 33<br>10      | 6                       | Red mast, white band, red<br>triangular daymark point<br>down; 20.            | Synchronized with front.                                  |
| 10176<br><i>B 1325</i>     | --S. side of entrance.                        | 54° 10.7' N<br>7° 53.5' E | <b>F.W.R.</b>   | 16<br>5       | W. 6<br>R. 4            | Red mast; 10.   | R. 040°-238°, W.-270°.                                    |
| 10180<br><i>B 1325.2</i>   | --N. side of entrance.                        | 54° 10.8' N<br>7° 53.5' E | <b>F.W.G.</b>   | 16<br>5       | W. 6<br>G. 3            | Green mast; 7.  | W. 248°-254°, G.-102°.                                    |
| 10184<br><i>B 1328</i>     | -Dunenhafen, W. mole, head.                   | 54° 11.0' N<br>7° 54.3' E | <b>F.R.</b>   | 16<br>5       | 4                       | Red mast; 7.  | Visible 294°-172°.  |
| 10188                      | -Sellebrunn Buoy.                             | 54° 14.0' N<br>7° 50.0' E | <b>Q.(9)W.</b><br>period 15s                                      |               |                         | W. CARDINAL<br>YBY, pillar, topmark.  | <b>Whistle.</b>   |
| 10192<br><i>B 1112</i>     | <b>Wangerooge.</b>                            | 53° 47.4' N<br>7° 51.4' E | <b>Fl.R.</b><br>period 5s<br>fl. 0.1s, ec. 4.9s                   | 197<br>60     | <b>23</b>               | Red round tower, white bands;<br>210.   |   |
|                            |   |                           | <b>F.W.R.</b>   | 79<br>24      | W. 15<br>R. 11          |   | W. 055°-060°, R.-065°30',<br>W.-071°.                     |
|                            |   |                           | <b>F.W.R.G.</b>   | 79<br>24      | W. 22<br>R. 17<br>G. 18 |   | G. 119°24'-138°48', W.-<br>152°12', R.-159°54'.           |
| 10193<br><i>B 1113</i>     | -W. embankment, head.                         | 53° 46.3' N<br>7° 51.9' E | <b>F.R.</b>   | 10<br>3       | 4                       | Red pile; 10.   |   |
| 10194<br><i>B 1113.2</i>   | -E. embankment, head.                         | 53° 46.5' N<br>7° 52.1' E | <b>F.G.</b>   | 10<br>3       | 3                       | Green pile; 10.   |   |
| 10212<br><i>B 1138</i>     | <b>-Voslapp</b> Range, front.                 | 53° 37.2' N<br>8° 06.8' E | <b>Iso.W.</b><br>period 6s  | 49<br>15      | <b>24</b>               | Red round tower, white bands;<br>56.  |   |
| 10216<br><i>B 1138.1</i>   | --Rear, 4.3 km. 164°30' from<br>front.        | 53° 34.9' N<br>8° 07.9' E | <b>Iso.W.</b><br>period 6s  | 198<br>60     | <b>27</b>               | White round concrete tower, red<br>bands; 201.                                | Synchronized with front.                                  |
| 10220<br><i>B 1139</i>     | -Niedersachsenbrücke Range,<br>front.         | 53° 34.9' N<br>8° 09.4' E | <b>F.W.</b>   | 33<br>10      | 4                       | Black framework tower, white<br>and red triangular daymark<br>point up; 36.   |   |
| 10224<br><i>B 1139.1</i>   | --Rear, 15 meters 298° from<br>front.         | 53° 34.9' N<br>8° 09.4' E | <b>F.W.</b>   | 42<br>13      | 4                       | Black framework tower, white<br>and red triangular daymark<br>point down; 46. | Range lit for arrival and<br>departure maneuvers<br>only. |
| 10248<br><i>B 1134</i>     | <b>-Tossens</b> Range, front.                 | 53° 34.5' N<br>8° 12.3' E | <b>Oc.W.</b><br>period 6s<br>lt. 4.5s, ec. 0.5s                   | 49<br>15      | <b>20</b>               | White tower, red band; 59.  |   |
| 10248.1<br><i>B 1134.1</i> | --Rear, about 3850 meters<br>146° from front. | 53° 32.8' N<br>8° 14.3' E | <b>Oc.W.</b><br>period 6s   | 167<br>51     | <b>20</b>               | Red tower, white bands, three<br>galleries; 174.                              |   |
| 10264<br><i>B 1156</i>     | -Vorhafen, Entrance Range,<br>front.          | 53° 31.8' N<br>8° 09.6' E | <b>Iso.W.</b><br>period 4s  | 57<br>17      | 11                      | Gray mast; 33.  |   |

| (1)<br>No.               | (2)<br>Name and Location               | (3)<br>Position           | (4)<br>Characteristic  | (5)<br>Height | (6)<br>Range            | (7)<br>Structure   | (8)<br>Remarks  |
|--------------------------|--|---------------------------|--|---------------|-------------------------|--|---|
| <b>GERMANY-NORTH SEA</b> |  |                           |  |               |                         |  |   |
| 10268<br><i>B 1156.1</i> | --Rear, 180 meters 207°48' from front. | 53° 31.7' N<br>8° 09.5' E | <b>Iso.W.</b><br>period 4s   | 76<br>23      | 11                      | Pile.  |   |
| 10272<br><i>B 1158</i>   | -W. mole, head.                        | 53° 32.5' N<br>8° 10.1' E | <b>Oc.G.</b><br>period 6s<br>lt. 4.5s, ec. 1.5s                          | 49<br>15      | 4                       | Green mast; 39.  |   |
| 10276<br><i>B 1159</i>   | -E. mole, head.                        | 53° 32.4' N<br>8° 10.3' E | <b>Oc.R.</b><br>period 6s<br>lt. 4.5s, ec. 1.5s                          | 49<br>15      | 5                       | Red mast; 43.<br>Floodlit.   |   |
| 10284<br><i>B 1163</i>   | -N. mole, head.                        | 53° 30.9' N<br>8° 09.3' E | <b>F.W.G.</b>  | 29<br>9       | W. 6<br>G. 3            | Green pile.  | W. 216°-280°, G.-010°, W.-020°, G.-130°.  |
| 10288<br><i>B 1164</i>   | -Mole, head.                           | 53° 30.8' N<br>8° 09.2' E | <b>F.R.</b>  | 20<br>6       | 5                       | Red pile.  |   |
| 10292<br><i>B 1166</i>   | -N. mole, angle.                       | 53° 30.8' N<br>8° 08.8' E | <b>F.G.</b>  | 20<br>6       | 3                       | Green pile; 20.  |   |
| 10296<br><i>B 1168</i>   | -S. mole, head.                        | 53° 30.8' N<br>8° 08.7' E | <b>F.R.</b>  | 15<br>5       | 4                       | Red pile; 16.  |   |
| 10300<br><i>B 1152</i>   | <b>-Arngast Sand.</b>                  | 53° 28.9' N<br>8° 10.9' E | <b>F.W.R.G.</b>  | 99<br>30      | W. 21<br>R. 16<br>G. 17 | Red round tower, two galleries, white band; 118.                                 | W. 135°-142°, G.-150°, W.-152°, G.-174°36', R. 180°30'-191°, W.-213°, R.-225°, W. 286°-303°, G.-314°.   |
|                          |  |                           | <b>Fl.W.G.</b><br>period 3s<br>fl. 0.8s, ec. 2.2s                        |               |                         |  | G. 174°36'-175°30', W.-176°24'.   |
|                          |  |                           | <b>Fl.(2)W.</b><br>period 9s<br>fl. 0.8s, ec. 2.2s<br>fl. 0.8s, ec. 5.2s |               |                         |  | Visible 177°24'-180°30'.  |
|                          |  |                           | <b>Oc.W.</b><br>period 6s<br>lt. 5s, ec. 1s                              |               | 20                      |  | Visible 176°24'-177°24'.  |
| 10302                    | <i>-Jade-Weser Buoy.</i>               | 53° 58.3' N<br>7° 38.8' E | <b>Oc.W.</b><br>period 4s  |               |                         | SAFE WATER<br>RW, pillar, topmark.   |   |
|                          | -RACON                                 |                           | <b>T(-)</b>  |               | 8                       |  | (3 & 10cm).   |
|                          | WESER RIVER:                           |                           |  |               |                         |  |   |
| 10304                    | <i>-Jade 2 Buoy.</i>                   | 53° 52.1' N<br>7° 47.3' E | <b>Fl.(2+1)G.</b><br>period 15s  |               |                         | PREFERRED CHANNEL (A)<br>GRG, pillar, topmark.                                   |   |
|                          | -RACON                                 |                           | <b>T(-)</b>  |               | 7                       |  |   |
| 10308<br><i>B 1188</i>   | <b>-Alte Weser.</b>                    | 53° 51.8' N<br>8° 07.7' E | <b>F.W.R.G.</b>  | 108<br>33     | W. 23<br>R. 19<br>G. 18 | Red tower, black base, red and white gallery, green lantern, radar antenna; 125. | W. 288°-352°, R.-003°, W.-017°(leading sector), G.-045°, W.-074°, G.-118°, W.-123° (leading sector), R.-140°, G.-175°, W.-183°, R.-196°, W.-238°.<br><b>Horn:</b> 1 bl. ev. 60s (bl. 17s, si. 43s). |

| (1)<br>No.               | (2)<br>Name and Location  | (3)<br>Position           | (4)<br>Characteristic   | (5)<br>Height | (6)<br>Range            | (7)<br>Structure   | (8)<br>Remarks  |
|--------------------------|---|---------------------------|---|---------------|-------------------------|--|---|
| <b>GERMANY-NORTH SEA</b> |   |                           |   |               |                         |  |   |
| 10316<br><i>B 1122</i>   | <b>-Mellumplate.</b>  | 53° 46.3' N<br>8° 05.6' E | <b>Fl.W.</b><br>period 4s<br>fl. 1s, ec. 3s   | 92<br>28      | 23                      | Red square tower, white band, gallery; 105.<br>Helicopter platform.                        | Visible 115°12'-116°06'.  |
|                          |   |                           | <b>Mo.(A)W.</b><br>period 7.5s<br>fl. 4.5s, ec. 3s  |               | 23                      |  | Visible 116°24'-117°12'.  |
|                          |   |                           | <b>F.W.</b>   |               | 24                      |  | Visible 114°-115°12'.   |
|                          |   |                           | <b>Mo.(N)W.</b><br>period 7.5s<br>fl. 4.5s, ec. 3s  |               | 23                      |  | Visible 117°12'-118°24'.  |
|                          |   |                           | <b>Fl.(4)W.</b><br>period 15s<br>fl. 1s, ec. 2s<br>fl. 1s, ec. 2s<br>fl. 1s, ec. 2s<br>fl. 1s, ec. 5s |               | 23                      |  | Visible 116°06'-116°24'.  |
| 10320<br><i>B 1196</i>   | <b>Tegeler Plate.</b>   | 53° 47.9' N<br>8° 11.5' E | <b>Oc.(3)W.R.G.</b><br>period 12s<br>lt. 2s, ec. 1s<br>lt. 2s, ec. 1s<br>lt. 5s, ec. 1s               | 68<br>21      | W. 21<br>R. 18<br>G. 17 | Red round tower, red roof, white lantern; 79.  | W. 329°-340°, R.-014°, W.-100°, G.-116°, W.-119°, R.-123°, G.-144°, W.-147°, R.-264°. |
| 10324<br><i>B 1198</i>   | <b>-Hohe Weg.</b>   | 53° 42.7' N<br>8° 14.6' E | <b>F.W.R.G.</b>   | 95<br>29      | W. 15<br>R. 14<br>G. 13 | Red octagonal tower, two galleries, green lantern, radar antenna; 112.                     | W. 102°-138°30', G.-142°30', W.-145°30', R.-184°, W.-278°30'.                         |
| 10328<br><i>B 1225</i>   | <b>Dwarsgat Range, front.</b>                                   | 53° 43.1' N<br>8° 18.5' E | <b>Iso.W.</b><br>period 6s  | 52<br>16      | 17                      | Red pile, white bands, gallery, red lantern, two triangular topmarks points together; 62.  |   |
| 10332<br><i>B 1225.1</i> | --Rear, about 1.3 km. 320°06' from front.                       | 53° 43.6' N<br>8° 17.7' E | <b>Iso.W.</b><br>period 6s  | 115<br>35     | 18                      | Red pile, white bands, gallery, red lantern, two triangular topmarks points together; 128. |   |
| 10335<br><i>B 1204</i>   | <b>-Fedderwarder.</b>   | 53° 42.3' N<br>8° 20.0' E | <b>Fl.Y.</b><br>period 4s   |               |                         |  | Tide gauge.   |
| 10336<br><i>B 1210</i>   | <b>-Robbennordsteert.</b>                                       | 53° 42.1' N<br>8° 20.4' E | <b>F.W.R.</b>   | 36<br>11      | W. 10<br>R. 8           | Red pile, gallery, green roof, black tripod, lantern; 52                                   | W. 324°-004°, R.-090°, W.-121°.   |
| 10340<br><i>B 1214</i>   | <b>-Robbenplate Range, front.</b>                               | 53° 40.9' N<br>8° 23.0' E | <b>Oc.W.</b><br>period 6s<br>lt. 4.5s, ec. 1.5s   | 52<br>16      | 18                      | Red pile, tripod, red triangular daymark point up; 49.                                     |   |
| 10344<br><i>B 1214.1</i> | --Rear, about 1 km. 122°18' from front.                         | 53° 40.6' N<br>8° 23.8' E | <b>Oc.W.</b><br>period 6s<br>lt. 4.5s, ec. 1.5s   | 121<br>37     | 19                      | Red square tower, three galleries; 121.  | Synchronized with front.  |
| 10350<br><i>B 1226</i>   | <b>-Langlutjen, NW.</b>   | 53° 40.4' N<br>8° 21.7' E | <b>Fl.Y.</b><br>period 4s   |               |                         |  | Tidal gauge.  |
| 10352<br><i>B 1228</i>   | <b>-Langlutjen Sand Range, front.</b>                           | 53° 39.6' N<br>8° 22.8' E | <b>Oc.W.</b><br>period 6s<br>lt. 5s, ec. 1s   | 49<br>15      | 13                      | Black mast, black and white octagonal gallery; 62.   |   |
| 10356<br><i>B 1228.1</i> | --Rear, 961 meters 305°12' from front.                          | 53° 39.9' N<br>8° 22.1' E | <b>Oc.W.</b><br>period 6s<br>lt. 5s, ec. 1s   | 102<br>31     | 14                      | Black pile, white gallery, black lantern; 112.   | Synchronized with front.  |
| 10360<br><i>B 1224</i>   | <b>-Wremer Loch Range, front, NE. side of Langlutjen Sands.</b> | 53° 38.4' N<br>8° 25.1' E | <b>Iso.W.</b><br>period 6s  | 49<br>15      | 13                      | Black pile, white bands, black gallery, green lantern; 56.                                 |   |
| 10364<br><i>B 1224.1</i> | --Rear, about 968 meters 140°06' from front.                    | 53° 38.0' N<br>8° 25.6' E | <b>Iso.W.</b><br>period 6s  | 101<br>31     | 15                      | Black pile, white bands, black gallery, green lantern; 108.                                | <b>Radar reflector.</b>   |
| 10368<br><i>B 1239</i>   | <b>-Solthorn Range, front.</b>                                  | 53° 38.3' N<br>8° 27.3' E | <b>Iso.W.</b><br>period 4s  | 49<br>15      | 15                      | Red pile, white bands, two red galleries; 66.  |   |
| 10372<br><i>B 1239.1</i> | --Rear, 700 meters 320°36' from front.                          | 53° 38.6' N<br>8° 26.9' E | <b>Iso.W.</b><br>period 4s  | 102<br>31     | 17                      | Red pile, white band, two red galleries; 118.  | Synchronized with front.  |

| (1)<br>No.                  | (2)<br>Name and Location                                   | (3)<br>Position           | (4)<br>Characteristic                       | (5)<br>Height | (6)<br>Range | (7)<br>Structure   | (8)<br>Remarks                                 |
|-----------------------------|--|---------------------------|---|---------------|--------------|--|--|
| <b>GERMANY-NORTH SEA</b>    |  |                           |   |               |              |  |  |
| 10375<br><i>B 1241</i>      | -Wremer Tief.  | 53° 37.8' N<br>8° 28.3' E | <b>FL.Y.</b><br>period 4s                   |               |              |  | Tide gauge.                                    |
| 10376<br><i>B 1240</i>      | -Hofe Range, front.  | 53° 37.0' N<br>8° 29.7' E | <b>Oc.W.</b><br>period 6s<br>lt. 5s, ec. 1s | 52<br>16      | 15           | Red pile, white bands, red spherical lantern; 75.              |  |
| 10380<br><i>B 1240.1</i>    | --Rear, 1.3 km. 330°48° from front.                        | 53° 37.6' N<br>8° 29.1' E | <b>Oc.W.</b><br>period 6s<br>lt. 5s, ec. 1s | 118<br>36     | 18           | Red pile, white band, two red spherical galleries; 141.        | Synchronized with front.                       |
| 10381<br><i>B 1230</i>      | -Imsum Range, front.                                       | 53° 36.5' N<br>8° 30.2' E | <b>Iso.W.</b><br>period 4s                  | 69<br>21      | 13           | Red pile, white bands, red triangular daymark point up; 85.    |  |
| 10382<br><i>B 1230.1</i>    | --Rear, 897 meters 125°12' from front.                     | 53° 36.2' N<br>8° 30.9' E | <b>Iso.W.</b><br>period 4s                  | 128<br>39     | 15           | Red pile, white bands, red triangular daymark point down; 148. | Synchronized with front.                       |
| <b>BREMERHAVEN:</b>         |  |                           |   |               |              |  |  |
| 10388<br><i>B 1257</i>      | -Fischeriehafen Range, common front.                       | 53° 31.9' N<br>8° 34.5' E | <b>Oc.W.</b><br>period 6s<br>lt. 5s, ec. 1s | 55<br>17      | 19<br>12     | Red and white column, red conical lantern; 36.                 |  |
| 10388.1<br><i>B 1256.9</i>  | --Rear, 1272 meters 150°48' from front.                    | 53° 31.3' N<br>8° 35.1' E | <b>Oc.W.</b><br>period 6s<br>lt. 5s, ec. 1s | 148<br>45     | 19           | Red and white column, two red conical galleries; 144.          | Synchronized with front.                       |
| 10389.1<br><i>B 1257.1</i>  | --Rear, 344 meters 053°54' from front.                     | 53° 32.0' N<br>8° 34.8' E | <b>Oc.W.</b><br>period 6s<br>lt. 5s, ec. 1s | 92<br>28      | 13           | Red and white column, red conical lantern; 82.                 | Synchronized with front.                       |
| 10390<br><i>B 1256.5</i>    | -Blexen-Reede.   | 53° 31.6' N<br>8° 34.3' E | <b>F.Y.</b>                                 |               |              | Pile.  |  |
| 10392<br><i>B 1258</i>      | -N. Lock.  | 53° 33.9' N<br>8° 32.9' E | <b>F.R.</b>                                 | 43<br>13      | 7            | Red mast; 43.  | <b>Horn:</b> 1 bl. ev. 60s (bl. 13s, si. 47s). |
| 10396<br><i>B 1260</i>      | --On quay.   | 53° 33.8' N<br>8° 33.0' E | <b>F.G.</b>                                 | 49<br>15      | 4            | Green mast; 39.  |  |
| <b>-Kaiserhafen:</b>        |  |                           |   |               |              |  |  |
| 10400<br><i>B 1262</i>      | --On mole, W. side of entrance to locks.                   | 53° 33.3' N<br>8° 33.5' E | <b>F.R.</b>                                 | 49<br>15      | 6            | Red mast; 36.  |  |
| 10404<br><i>B 1264</i>      | --E. side of entrance to Kaiserhafen.                      | 53° 33.1' N<br>8° 33.6' E | <b>F.G.</b>                                 | 52<br>16      | 6            | Mast.  | <b>Horn:</b> 1 bl. ev. 60s (bl. 11s, si. 49s). |
| 10406<br><i>B 1264.6</i>    | --SE. side of entrance.                                    | 53° 33.1' N<br>8° 33.6' E | <b>F.Y.</b>                                 | 23<br>7       |              |  |  |
| 10408<br><i>B 1268</i>      | --Bremerhaven Range, front, S. mole.                       | 53° 32.7' N<br>8° 34.2' E | <b>Iso.W.</b><br>period 4s                  | 69<br>21      | 8            | Red conical tower, white bands, gallery; 85.                   |  |
| <b>-Neuer Hafen:</b>        |  |                           |   |               |              |  |  |
| 10412<br><i>B 1268.1</i>    | ---Rear, NE. side of entrance, 208 meters 006° from front. | 53° 32.8' N<br>8° 34.2' E | <b>Iso.W.</b><br>period 4s                  | 115<br>35     | 8            | Brown square brick tower, green roof; 121.                     | Synchronized with front.                       |
| 10416<br><i>B 1274</i>      | -Old Harbor entrance, Geeste N. mole.                      | 53° 32.2' N<br>8° 34.5' E | <b>F.W.R.</b>                               | 49<br>15      | 6            | Brown square tower, gallery; 46.                               | R. 245°-166°.                                  |
| 10420<br><i>B 1275</i>      | -Harbor entrance, S. mole, head.                           | 53° 32.1' N<br>8° 34.5' E | <b>F.G.</b>                                 | 49<br>15      | 5            | Green framework tower; 46.                                     | Visible 355°-265°.                             |
| <b>BREMEN</b>               |  |                           |   |               |              |  |  |
| 10422<br><i>B 1297.17</i>   | -Klippkanne, N.  | 53° 21.5' N<br>8° 29.8' E | <b>F.W.R.G.</b>                             | 20<br>6       | 3            | Black post; 10.  | R. 175°54'-205°54', W.-220°54', G.-310°54'.    |
| 10422.1<br><i>B 1297.18</i> | --S.   | 53° 21.2' N<br>8° 29.9' E | <b>F.W.R.G.</b>                             | 20<br>6       | 3            | Black post; 10.  | G. 215°54'-305°54', W.-325°54', R.-355°54'.    |



| (1)<br>No.                  | (2)<br>Name and Location                                       | (3)<br>Position           | (4)<br>Characteristic                         | (5)<br>Height    | (6)<br>Range         | (7)<br>Structure   | (8)<br>Remarks                           |
|-----------------------------|--|---------------------------|---|------------------|----------------------|--|--|
| <b>GERMANY-NORTH SEA</b>    |  |                           |   |                  |                      |  |  |
| 10423<br><i>B 1298</i>      | -Brake.  | 53° 19.8' N<br>8° 29.2' E | <b>Iso.W.R.G.</b><br>period 4s                | 49<br><b>15</b>  | W. 9<br>R. 7<br>G. 6 | Red column, white band; 43.  | R. 351°30'-352°30', W.-356°,<br>G.-358°. |
| ELBE RIVER ENTRANCE:        |  |                           |   |                  |                      |  |  |
| 10424                       | - <i>Elbe Buoy.</i>  | 54° 00.0' N<br>8° 06.5' E | <b>Iso.W.</b><br>period 10s                   |                  |                      | SAFE WATER<br>RW, pillar, topmark.   | <b>Horn:</b> Mo.(R) ev. 30s.             |
|                             | -RACON   |                           | T(-)  |                  | 8                    |  | (3 & 10cm).                              |
| 10436<br><i>B 1344</i>      | -Neuwerk.  | 53° 54.9' N<br>8° 29.7' E | <b>F.W.</b>                                   | 124<br><b>38</b> | 3                    | Red square tower, black roof;<br>128.  | Private light.                           |
| 10439<br><i>B 1348.49</i>   | - <b>Gelbsand</b> Range, front.                                | 53° 58.3' N<br>8° 37.5' E | <b>Iso.W.</b><br>period 4s                    | 82<br><b>25</b>  | 17                   | White round tower, black bands.  |  |
| 10439.1<br><i>B 1348.5</i>  | --Rear, 1600 meters 331°12'<br>from front.                     | 53° 59.1' N<br>8° 36.8' E | <b>Iso.W.</b><br>period 4s                    | 164<br><b>50</b> | 20                   | White round tower, black bands.  |  |
| 10442.1<br><i>B 1349.8</i>  | -Cuxhaven, NW, G(23).  | 53° 54.8' N<br>8° 40.1' E | <b>F.W.</b>                                   |                  |                      | Green and white post; 75.  | <b>Radar reflector.</b>                  |
| 10442.2<br><i>B 1349.9</i>  | --V(23).   | 53° 55.2' N<br>8° 41.2' E | <b>F.W.</b>                                   |                  |                      | Red and white post; 75.  | <b>Radar reflector.</b>                  |
| CUXHAVEN:                   |  |                           |   |                  |                      |  |  |
| 10445<br><i>B 1361.1</i>    | - <b>Altenbruch</b> Range, common<br>front.                    | 53° 50.0' N<br>8° 47.7' E | <b>Iso.W.</b><br>period 8s                    | 62<br><b>19</b>  | 19                   | White round tower, black bands.  |  |
|                             |  |                           | <b>Iso.W.R.G.</b><br>period 8s                |                  | W. 8<br>R. 9<br>G. 8 |  | G. 117°30'-124°, W.-135°, R.-<br>140°.   |
| 10445.1<br><i>B 1361</i>    | --Rear, 2490 meters 261° from<br>common front.                 | 53° 49.8' N<br>8° 45.5' E | <b>Iso.W.</b><br>period 8s                    | 167<br><b>51</b> | 22                   | Black round tower, white bands,<br>red top, black triangular<br>daymark point down; 194. | Synchronized with 10445.                 |
| 10446<br><i>B 1361.2</i>    | --Wehldorf rear, 595 meters<br>130°48' from common<br>front.   | 53° 49.8' N<br>8° 48.1' E | <b>Iso.W.</b><br>period 8s                    | 102<br><b>31</b> | 11                   | Black round tower, white bands,<br>black top; 95.  | Synchronized with 10445.                 |
| 10448<br><i>B 1363</i>      | -Neuer Fahrhafen, W. mole,<br>head.                            | 53° 52.7' N<br>8° 42.2' E | <b>F.W.G.</b>                                 | 23<br><b>7</b>   | W. 6<br>G. 3         | Green pile, platform.  | G. 125°-349°, W.-125°.                   |
| 10452<br><i>B 1363.2</i>    | -Ferry pier, head.   | 53° 52.6' N<br>8° 42.3' E | <b>F.W.R.</b>                                 | 23<br><b>7</b>   | W. 6<br>R. 4         | Red platform with platform.  | R. 117°-336°, W.-117°.                   |
| -Cuxhaven (Fischeriehafen): |  |                           |   |                  |                      |  |  |
| 10460<br><i>B 1368</i>      | --W. mole, head.   | 53° 52.3' N<br>8° 42.8' E | <b>F.W.G.</b>                                 | 21<br><b>6</b>   | W. 4<br>G. 2         | Green framework tower,<br>platform.  | G. 125°-344°, W.-125°.                   |
| 10464<br><i>B 1370</i>      | --E. mole, head.   | 53° 52.2' N<br>8° 42.8' E | <b>F.W.R.</b>                                 | 23<br><b>7</b>   | W. 6<br>R. 4         | Red framework tower, platform.   | R. 124°-008°, W.-124°.                   |
| -Amerikahafen:              |  |                           |   |                  |                      |  |  |
| 10468<br><i>B 1374</i>      | --Steubenhof.  | 53° 52.0' N<br>8° 43.1' E | <b>Oc.W.G.</b><br>period 4s<br>lt. 3s, ec. 1s | 39<br><b>12</b>  | W. 5<br>G. 3         | Green round tower, platform; 33.   | G. 122°-338°, W.-122°.                   |
| 10502<br><i>B 1396</i>      | <b>Otterndorf/Belum</b> Range,<br>common front.                | 53° 50.1' N<br>8° 56.1' E | <b>Iso.W.</b><br>period 4s                    | 75<br><b>23</b>  | 18                   | White round tower, red bands,<br>red conical top; 82.                                    |  |
| 10502.1<br><i>B 1395.9</i>  | -Belum, rear, 1340 meters<br>092°48' from common<br>front.     | 53° 50.1' N<br>8° 57.3' E | <b>Iso.W.</b><br>period 4s                    | 148<br><b>45</b> | 18                   | White round tower, red bands,<br>red conical top; 144.                                   |  |
| 10502.2<br><i>B 1396.1</i>  | -Otterdorf, rear, 2512 meters<br>245°30' from common<br>front. | 53° 49.6' N<br>8° 54.1' E | <b>Iso.W.</b><br>period 4s                    | 171<br><b>52</b> | 21                   | White round tower, red bands,<br>red conical top; 171.                                   |  |
| 10503<br><i>B 1396.2</i>    | --NW.  | 53° 50.1' N<br>8° 52.2' E | <b>Fl.(5)Y.</b><br>period 20s                 |                  |                      | Yellow post.   | Tide gauge.                              |

| (1)<br>No.                 | (2)<br>Name and Location  | (3)<br>Position           | (4)<br>Characteristic  | (5)<br>Height     | (6)<br>Range            | (7)<br>Structure   | (8)<br>Remarks  |
|----------------------------|---|---------------------------|--|-------------------|-------------------------|--|---|
| <b>GERMANY-NORTH SEA</b>   |   |                           |  |                   |                         |  |   |
| 10519<br><i>B 1411</i>     | Osteriff.   | 53° 51.4' N<br>9° 01.9' E | <b>Fl.(5)Y.</b><br>period 20s  |                   |                         | Yellow post.   | Tide gauge.   |
| 10520<br><i>B 1412</i>     | <b>Balje</b> Range, front.  | 53° 51.3' N<br>9° 02.6' E | <b>Iso.W.</b><br>period 8s   | 79<br>24          | 17                      | White round tower, red bands.  |   |
| 10524<br><i>B 1412.1</i>   | -Rear, about 2460 meters 081°<br>from front.                          | 53° 51.5' N<br>9° 04.8' E | <b>Iso.W.</b><br>period 8s   | 177<br>54         | 21                      | White round tower, red bands.  | Visible either side of range<br>line (sector unspecified).            |
| 10525<br><i>B 1414</i>     | Brunsbüttel.  | 53° 52.5' N<br>9° 07.4' E | <b>Fl.(5)Y.</b><br>period 20s  |                   |                         |  | Tide gauge.   |
| 10528<br><i>B 1416</i>     | <b>Schleuseninsel</b> Range, front.                                   | 53° 53.3' N<br>9° 08.5' E | <b>Iso.W.</b><br>period 3s   | 79<br>24          | 16                      | White tower, red bands; 75.  |   |
| 10532<br><i>B 1416.1</i>   | Industriegebiet, rear, about<br>1.63 km. 065°30' from<br>front.       | 53° 53.7' N<br>9° 09.8' E | <b>Iso.W.</b><br>period 3s   | 151<br>46         | 21                      | White tower, red bands; 161.   | Synchronized with front.  |
| BRUNSBUTTEL:               |   |                           |  |                   |                         |  |   |
| -Nord-Ostsee-Kanal:        |   |                           |  |                   |                         |  |   |
| 10552<br><i>B 1438</i>     | --New entrance, N. mole, head.  | 53° 53.3' N<br>9° 07.5' E | <b>F.W.R.</b>  | 43<br>13          | W. 10<br>R. 8           | White tower, red band; 43.   | R. 275°30'-079°, W.-081°30'.  |
| 10556<br><i>B 1431</i>     | --Elbehafen, W. Range, front.   | 53° 53.4' N<br>9° 10.0' E | <b>L.Fl.W.</b><br>period 8s<br>fl. 2s, ec. 6s  | 33<br>10          | 10                      | Gray mast, red and white<br>diamond daymark.                         |   |
| 10560<br><i>B 1431.1</i>   | ---Rear, 50 meters 360° from<br>front.                                | 53° 53.4' N<br>9° 10.0' E | <b>L.Fl.W.</b><br>period 8s<br>fl. 2s, ec. 6s  | 42<br>13          | 10                      | Gray mast, red and white<br>diamond daymark.                         | Synchronized with front.  |
| 10564<br><i>B 1436</i>     | ---S. mole, head.   | 53° 53.3' N<br>9° 08.1' E | <b>Iso.Y.</b><br>period 2s   | 43<br>13          |                         |  |   |
| 10568<br><i>B 1442</i>     | --Old entrance, N. mole, head.  | 53° 53.2' N<br>9° 08.2' E | <b>F.R.</b>  | 47<br>14          | 10                      | Red tower, white roof; 43.<br>Floodlit.                              | Visible 278°-084°.<br><b>Horn:</b> 1 bl. ev. 10s (bl. 3s, si.<br>7s). |
| 10569<br><i>B 1444</i>     | ---S. mole, head.   | 53° 53.3' N<br>9° 08.6' E | <b>F.W.G.</b>  | 46<br>14          | W. 10<br>G. 6           | White tower, black bands, white<br>roof, black gallery.<br>Floodlit. | W. 266°18'-273°54', G.-<br>088°48'.<br>F.W. shown in fog.             |
| 10572<br><i>B 1425</i>     | Hochdonn Ferry Bridge.  | 54° 01.0' N<br>9° 17.8' E | <b>4 F.W.</b> (horiz.)   |                   |                         | Bridge.  | 4 F.W. (horiz.) marks center.<br>Vertical clearance 40 meters.        |
| 10573<br><i>B 1428</i>     | Beldorf Bridge.   | 54° 07.5' N<br>9° 19.8' E | <b>4 F.W.</b> (horiz.)   |                   |                         | Bridge.  | 4 F.W. (horiz.) marks center.<br>Vertical clearance 40 meters.        |
| ELBE RIVER ENTRANCE:       |   |                           |  |                   |                         |  |   |
| 10574<br><i>B 1454</i>     | <b>-St. Margarethen/<br/>Scheelenkuhlen</b> , range,<br>common front. | 53° 52.9' N<br>9° 15.7' E | <b>Iso.W.</b><br>period 8s   | 66<br>20          | 18                      | Red cylindrical tower, white<br>bands; 75.                           | Intensified 089°12' and<br>311°48'.                                   |
| 10574.1<br><i>B 1453.9</i> | <b>-St. Margarethen</b> , rear, 0.58M<br>311°48' from front.          | 53° 53.2' N<br>9° 14.9' E | <b>Iso.W.</b><br>period 8s   | 118<br>36         | 19                      | Red cylindrical tower, white<br>bands; 121.                          | Synchronized with 10574.  |
| 10574.2<br><i>B 1454.1</i> | <b>-Scheelenkuhlen</b> , rear, 1M<br>089°12' from front.              | 53° 52.9' N<br>9° 17.3' E | <b>Iso.W.</b><br>period 8s   | 144<br>44         | 22                      | Red cylindrical tower, white<br>bands; 154.                          | Synchronized with 10574.  |
| 10575<br><i>B 1474</i>     | <b>-Ruthensand</b> Range, front.                                      | 53° 43.2' N<br>9° 25.4' E | <b>Dir.W.R.G.</b><br>period 6s<br>fl. 4.5s, ec. 1.5s<br><br><b>Iso.W.</b><br>period 4s | 49<br>15<br><br>9 | W. 15<br>R. 12<br>G. 11 | Red tower, white bands, lantern;<br>49.                              | Oc.G.170°-174°48', Oc.W.-<br>176°06', Oc.R.-182°.                     |
| 10575.1<br><i>B 1474.1</i> | --Rear, 1005 meters 161°36'<br>from front.                            | 53° 43.2' N<br>9° 25.4' E | <b>Iso.W.</b><br>period 4s   | 98<br>30          | 11                      | Red tower, white bands, lantern;<br>98.                              | Synchronized with front.  |
| 10575.2<br><i>B 1499</i>   | -Grauerort.   | 53° 40.7' N<br>9° 29.7' E | <b>Fl.(5)Y.</b><br>period 20s  |                   |                         | Dolphin.   | Tide gauge.   |

| (1)<br>No.                 | (2)<br>Name and Location                     | (3)<br>Position           | (4)<br>Characteristic   | (5)<br>Height    | (6)<br>Range            | (7)<br>Structure  | (8)<br>Remarks   |
|----------------------------|--|---------------------------|---|------------------|-------------------------|---|--|
| <b>GERMANY-NORTH SEA</b>   |  |                           |   |                  |                         |   |  |
| 10576<br><i>B 1352</i>     | Friedrichskoog Harbor.                       | 53° 59.5' N<br>8° 50.7' E | <b>F.W.</b>   | 23<br><b>7</b>   | 6                       | Black framework tower, platform;<br>23.                   |  |
| 10578<br><i>B 1578.6</i>   | Kohlfleethafen, rear, 099°42'<br>from front. | 53° 32.3' N<br>9° 53.1' E | <b>Iso.W.R.</b><br>period 4s  | 26<br><b>8</b>   | W. 5<br>R. 3            | Red pile, red and white triangular<br>daymark point down. | R. 086°42'-099°42', W.-<br>110°42'.<br>Unlit front daymark 20 meters<br>from rear.                                   |
| 10579<br><i>B 1574.35</i>  | -Berth 7B.                                   | 53° 32.7' N<br>9° 50.4' E | <b>Iso.W.</b><br>period 8s  | 26<br><b>8</b>   | 3                       | Dolphin.  |  |
| 10579.1<br><i>B 1595.6</i> | -Moorburger Weide.                           | 53° 29.6' N<br>9° 57.3' E | <b>Dir.Iso.W.R.G.</b><br>period 6s  | 115<br><b>35</b> | W. 7<br>R. 5<br>G. 4    | White tower, black bands.                                 | G. 136°12'-138°12', W.-<br>140°12', R.-142°12'.  |
| <b>BUSUM:</b>              |  |                           |   |                  |                         |   |  |
| 10580<br><i>B 1606</i>     | -Fishing harbor, W. side.                    | 57° 07.7' N<br>8° 51.6' E | <b>Iso.W.R.</b><br>period 6s  | 72<br><b>22</b>  | W. 19<br>R. 12          | Red tower, white bands; 72.                               | W. 248°-317°, R.-024°, W.-<br>148°.  |
| 10584<br><i>B 1609</i>     | -W. pier, head.                              | 54° 07.2' N<br>8° 51.6' E | <b>Oc.(3)R.</b><br>period 12s<br>lt. 2s, ec. 1s<br>lt. 2s, ec. 1s<br>lt. 5s, ec. 1s     | 33<br><b>10</b>  | 4                       | Red tower; 20.  | Visible 186°-120°.<br>F.W. visible 315°-116° shown<br>in fog.  |
| 10592<br><i>B 1610</i>     | --Starboard side.                            | 54° 07.2' N<br>8° 51.7' E | <b>Oc.(3)G.</b><br>period 12s<br>lt. 2s, ec. 1s<br>lt. 2s, ec. 1s<br>lt. 5s, ec. 1s     | 33<br><b>10</b>  | 4                       | Green tower; 30.  | Visible 260°-168°.   |
| 10596<br><i>B 1624</i>     | <b>Saint Peter.</b>                          | 54° 17.2' N<br>8° 39.1' E | <b>L.Fl.(2)W.R.</b><br>period 15s<br>fl. 2s, ec. 3s<br>fl. 2s, ec. 8s                   | 77<br><b>23</b>  | W. 16<br>R. 13          | Brown tower, black lantern; 59.                           | R. 271°-280°30', W.-035°, R.-<br>055°, W.-068°, R.-091°, W.-<br>120°.  |
| 10600<br><i>B 1652</i>     | <b>Westerheversand.</b>                      | 54° 22.4' N<br>8° 38.4' E | <b>Oc.(3)W.R.G.</b><br>period 15s<br>lt. 2s, ec. 1s<br>lt. 2s, ec. 1s<br>lt. 8s, ec. 1s | 135<br><b>41</b> | W. 21<br>R. 17<br>G. 16 | Red tower, white bands; 131.                              | W. 012°12'-069°, G.-079°30',<br>W.-081°, R.-107°, W.-<br>150°, R.-207°, W.-233°, R.-<br>248°.                        |
| 10604<br><i>B 1672</i>     | <b>Suderoogsand.</b>                         | 54° 25.5' N<br>8° 28.7' E | <b>Iso.W.R.G.</b><br>period 6s  | 59<br><b>18</b>  | W. 15<br>R. 12<br>G. 11 | Gray square tower; 62.                                    | R. 240°-244°, W.-246°, G.-<br>248°, W.-320°, R.-338°, W.-<br>013°, R.-048°, W.-<br>082°30', R.-122°30', W.-<br>150°. |
| 10612<br><i>B 1676.1</i>   | <b>Pellworm Island.</b>                      | 54° 29.8' N<br>8° 40.0' E | <b>Oc.W.R.G.</b><br>period 5s<br>lt. 4s, ec. 1s   | 125<br><b>38</b> | W. 20<br>R. 16<br>G. 15 | Red tower, white band; 135.                               | G. 037°30'-040°, W.-042°30',<br>R.-045°.   |
|                            |  |                           | <b>Oc.W.R.</b><br>period 5s<br>lt. 4s, ec. 1s   |                  | W. 15<br>R. 11          |   | R. 122°36'-140°, W.-210°12'.   |
|                            |  |                           | <b>Oc.W.</b><br>period 5s<br>lt. 4s, ec. 1s   |                  | <b>15</b>               |   | Visible 255°-307°.   |
| <b>AMRUM:</b>              |  |                           |   |                  |                         |   |  |
| 10620<br><i>B 1686</i>     | <b>-Amrum.</b>                               | 54° 37.9' N<br>8° 21.4' E | <b>Fl.W.</b><br>period 7.5s<br>fl. 1s, ec. 6.5s   | 207<br><b>63</b> | <b>23</b>               | Red tower, white bands; 134.                              |  |
| 10628<br><i>B 1688</i>     | -Wriakhorn.                                  | 54° 37.6' N<br>8° 21.2' E | <b>L.Fl.(2)W.R.</b><br>period 15s<br>fl. 2s, ec. 3s<br>fl. 2s, ec. 8s                   | 85<br><b>26</b>  | W. 12<br>R. 9           | Gray framework tower, platform;<br>56.                    | W. 297°30'-319°30', R.-330°,<br>W.-005°30', R.-034°.   |
| 10636<br><i>B 1728</i>     | <b>-Norddorf.</b>                            | 54° 40.2' N<br>8° 18.5' E | <b>Oc.W.R.G.</b><br>period 6s<br>lt. 4.5s, ec. 1.5s                                     | 72<br><b>22</b>  | W. 15<br>R. 12<br>G. 11 | White tower, red bands, red roof;<br>26.                  | W. 031°-097°, R.-176°30',<br>W.-178°30', G.-188°.  |

| (1)<br>No.                 | (2)<br>Name and Location                  | (3)<br>Position           | (4)<br>Characteristic   | (5)<br>Height | (6)<br>Range            | (7)<br>Structure                         | (8)<br>Remarks   |
|----------------------------|---|---------------------------|---|---------------|-------------------------|--|--|
| <b>GERMANY-NORTH SEA</b>   |   |                           |   |               |                         |  |  |
| 10640<br><i>B 1700</i>     | Nordmarsch.                               | 54° 37.6' N<br>8° 31.8' E | <b>L.Fl.(3)W.R.</b><br>period 20s<br>fl. 2s, ec. 3s<br>fl. 2s, ec. 3s<br>fl. 2s, ec. 8s                 | 43<br>13      | W. 14<br>R. 11          | Brown tower; 36.                         | W. 268°-279°, R.-306°, W.-045°, R.-070°, W.-218°.  |
| FOHR:                      |   |                           |   |               |                         |  |  |
| 10644<br><i>B 1704</i>     | -Oldenhorn.                               | 54° 40.9' N<br>8° 34.1' E | <b>Oc.(4)W.R.</b><br>period 15s<br>lt. 2s, ec. 1s<br>lt. 2s, ec. 1s<br>lt. 2s, ec. 1s<br>lt. 5s, ec. 1s | 34<br>10      | W. 13<br>R. 10          | Red tower, platform, green lantern; 26.  | W. 208°-237°30', R.-298°, W.-353°, R.-080°.  |
| 10648<br><i>B 1706</i>     | --Wyk, pier, head.                        | 54° 41.6' N<br>8° 34.7' E | <b>F.R.</b>   | 30<br>9       | 4                       | Red pile.                                |  |
| 10652<br><i>B 1714</i>     | Oland, NW. side, on Hallig wharf.         | 54° 40.5' N<br>8° 41.3' E | <b>F.W.R.G.</b>   | 22<br>7       | W. 13<br>R. 10<br>G. 9  | Red tower; 23.                           | G. 086°-093°, W.-160°, R.-172°.  |
| SYLT:                      |   |                           |   |               |                         |  |  |
| 10676<br><i>B 1735</i>     | -Hornum.                                  | 54° 45.3' N<br>8° 17.5' E | <b>Fl.(2)W.</b><br>period 9s<br>fl. 0.4s, ec. 2.6s<br>fl. 0.4s, ec. 5.6s                                | 157<br>48     | 20                      | Red tower, white band; 112.              |  |
| 10688                      | -Hornum Odde, cross.                      | 54° 44.4' N<br>8° 17.7' E | <b>Oc.(2)W.R.G.</b><br>period 12s<br>lt. 3s, ec. 1s<br>lt. 7s, ec. 1s                                   | 56<br>17      | W. 6<br>R. 4<br>G. 3    | Gray mast; 13.                           | R. 180°-204°, W.-270°, G.-290°, W.-313°, R.-328°, W.-023°, R.-045°.  |
| 10692<br><i>B 1738</i>     | -N. mole.                                 | 54° 45.6' N<br>8° 17.9' E | <b>F.G.</b>   | 20<br>6       | 4                       | Green pile; 10.                          | Visible 024°-260°.   |
| 10696<br><i>B 1738.6</i>   | --Outer S. mole, head.                    | 54° 45.6' N<br>8° 18.0' E | <b>F.R.</b>   | 23<br>7       | 4                       | Dolphins, platform, red lantern.         |  |
| 10700<br><i>B 1740</i>     | -Kampen.                                  | 54° 56.8' N<br>8° 20.4' E | <b>L.Fl.W.R.</b><br>period 10s<br>fl. 3s, ec. 7s  | 203<br>62     | W. 20<br>R. 16          | White tower, black band; 131.            | W. 193°-165°, R.-193°.   |
| 10704<br><i>B 1746</i>     | -List, W.                                 | 55° 03.2' N<br>8° 24.1' E | <b>Oc.W.R.G.</b><br>period 6s<br>lt. 4.5s, ec. 1.5s   | 62<br>19      | W. 14<br>R. 11<br>G. 10 | White tower, red lantern; 36.            | W. 040°-069°, R.-133°, W.-227°, R.-266°24', W.-268°, G.-285°, W.-040°.   |
| 10708<br><i>B 1748</i>     | --E.                                      | 55° 03.0' N<br>8° 26.6' E | <b>Iso.W.R.G.</b><br>period 6s  | 73<br>22      | W. 14<br>R. 11<br>G. 10 | White tower, red bands, red lantern; 43. | W. 010°30'-262°, R.-278°, W.-296°, R.-323°18', W.-324°30', G.-350°, W.-010°30'.  |
| 10712<br><i>B 1749</i>     | --Land.                                   | 55° 01.1' N<br>8° 26.5' E | <b>Oc.W.R.G.</b><br>period 3s<br>lt. 2s, ec. 1s   | 46<br>14      | W. 13<br>R. 10<br>G. 9  | White mast, red band; 33.                | W. 170°-203°, G.-212°, W.-215°30', R.-232°30', W.-234°, G.-243°, W.-050°. F.G. and F.R. mark naval boat harbor entrance. |
| <b>DENMARK-NORTH SEA</b>   |   |                           |   |               |                         |  |  |
| 10716<br><i>B 1848</i>     | Blavandshuk.                              | 55° 33.5' N<br>8° 05.0' E | <b>L.Fl.(3)W.</b><br>period 20s<br>fl. 2s, ec. 2s<br>fl. 2s, ec. 2s<br>fl. 2s, ec. 10s                  | 180<br>55     | 22                      | White square tower; 128.                 | DGPS Station.  |
| 10716.1<br><i>B 1848.7</i> | -Munk S. Wind Farm.                       | 55° 30.5' N<br>7° 52.5' E | <b>Mo.(U)W.</b><br>period 15s<br>fl. 0.7s, ec. 0.7s<br>fl. 0.7s, ec. 0.7s<br>fl. 2.1s, ec. 10.1s        | 49<br>15      | 5                       | Transformer platform.                    |  |
| 10716.17                   | Horns Rev Offshore Wind Farm, Platform C. | 55° 41.4' N<br>7° 41.2' E | <b>2 Mo.(U)W.</b><br>period 15s   | 98<br>30      | 10                      | Transformer platform.                    |  |

| (1)<br>No.               | (2)<br>Name and Location                                      | (3)<br>Position           | (4)<br>Characteristic  | (5)<br>Height | (6)<br>Range | (7)<br>Structure                     | (8)<br>Remarks                                 |
|--------------------------|---|---------------------------|--|---------------|--------------|--------------------------------------|--|
| <b>DENMARK-NORTH SEA</b> |   |                           |  |               |              |                                      |  |
| 10716.3                  | <i>Regnar Field TANKER<br/>Superbuoy.</i>                     | 55° 23.2' N<br>5° 13.9' E | <b>Mo.(U)W.</b><br>period 15s  |               | 10           |                                      | <b>Horn.</b>                                   |
|                          | RACON   |                           | <b>U(• • -)</b><br>period 30s  |               |              |                                      |  |
| 10716.5                  | Dan Field, Platform FC,<br>RACON.                             | 55° 28.0' N<br>5° 08.0' E | <b>U(• • -)</b><br>period 90s  |               |              |                                      | (3cm).<br><b>Aero Radiobeacon.</b>             |
| 10717                    | Kraka Field, Platform A,<br>RACON.                            | 55° 24.0' N<br>5° 05.1' E | <b>U(• • -)</b>  |               |              |                                      | (3 & 10cm).                                    |
| 10717.1                  | GNSC-B-11 Platform, RACON.<br><i>A 7784</i>                   | 55° 27.8' N<br>4° 33.0' E | <b>D(- • •)</b>  |               |              |                                      | (3 & 10cm).                                    |
| 10717.2                  | Rolf Field, Platform A, RACON.                                | 55° 36.4' N<br>4° 29.6' E | <b>U(• • -)</b>  |               |              |                                      |  |
| 10717.3                  | Valdemar Field, Platform A,<br>RACON.                         | 55° 50.2' N<br>4° 33.5' E | <b>U(• • -)</b>  |               |              |                                      | (3 & 10cm).                                    |
| 10717.5                  | Dagmar Field, Platform A,<br>RACON.                           | 55° 34.6' N<br>4° 37.2' E | <b>U(• • -)</b>  |               |              |                                      | (3 & 10cm).<br><b>AIS</b> (MMSI No 992191500). |
| 10718                    | Gorm Field, Platform C,<br>RACON.                             | 55° 34.9' N<br>4° 45.6' E | <b>U(• • -)</b><br>period 72s  |               |              |                                      | (3cm).   |
| 10718.2                  | Tyra East Field, Platform A,<br>RACON.                        | 55° 43.3' N<br>4° 48.2' E | <b>U(• • -)</b><br>period 90s  |               |              |                                      | (3cm).   |
| 10718.4                  | Tyra West Field, Platform A,<br>RACON.                        | 55° 43.0' N<br>4° 45.1' E | <b>U(• • -)</b><br>period 90s  |               |              |                                      | (3cm).   |
| 10719                    | <i>Gradyb Anduvning Buoy.</i>                                 | 55° 24.7' N<br>8° 11.7' E | <b>L.Fl.W.</b><br>period 10s   |               | 10           | SAFE WATER<br>RW, pillar, topmark.   |  |
|                          | RACON   |                           | <b>G(- - •)</b>  |               |              |                                      | (3 & 10cm).                                    |
| 10719.3                  | Harald Field, Platform B,<br>RACON.                           | 56° 20.7' N<br>4° 16.3' E | <b>U(• • -)</b>  |               |              |                                      | (3 & 10cm).                                    |
| 10719.5                  | -Romo Channel, outer.<br><i>B 1757</i>                        | 55° 03.5' N<br>8° 31.1' E | <b>Fl.(2)R.</b><br>period 10s<br>fl. 1.5s, ec. 1.5s<br>fl. 1.5s, ec. 5.5s  | 16<br>5       | 3            | Red pole; 10.                        |  |
| 10719.6                  | --Middle.<br><i>B 1758</i>                                    | 55° 04.0' N<br>8° 32.7' E | <b>Fl.R.</b><br>period 3s<br>fl. 0.5s, ec. 2.5s  | 20<br>6       | 3            | Red post.                            |  |
| 10719.7                  | --Inner.<br><i>B 1759</i>                                     | 55° 04.8' N<br>8° 34.2' E | <b>Fl.R.</b><br>period 5s<br>fl. 0.5s, ec. 4.5s  | 16<br>5       | 3            | Red pole; 10.                        |  |
| ESBJERG APPROACH:        |   |                           |  |               |              |                                      |  |
| 10720                    | <b>-Saedenstrand</b> Range, front.<br><i>B 1772</i>           | 55° 29.7' N<br>8° 23.9' E | <b>Iso.W.</b><br>period 2s   | 46<br>14      | 19           | Gray tower, copper roof; 10.         | Visible 052°18'-055°18'.<br>Shown 24 hours.    |
| 10724                    | --Middle, 740 meters 053°48'<br><i>B 1772.1</i> from front.   | 55° 29.9' N<br>8° 24.4' E | <b>Iso.W.</b><br>period 4s   | 89<br>27      | 19           | Red metal tower, white bands;<br>46. | Visible 052°18'-055°18'.<br>Shown 24 hours.    |
| 10728                    | --Rear, about 1.4 km. 053°48'<br><i>B 1772.2</i> from middle. | 55° 30.2' N<br>8° 24.9' E | <b>F.W.</b>  | 121<br>37     | 20           | Red framework tower; 72.             | Visible 052°18'-155°18'.<br>Shown 24 hours.    |
| 10730                    | -Tide Gauge.<br><i>B 1774</i>                                 | 55° 26.1' N<br>8° 15.9' E | <b>Fl.(5)Y.</b><br>period 20s<br>fl. 0.8s, ec. 1.2s<br>fl. 0.8s, ec. 1.2s<br>fl. 0.8s, ec. 1.2s<br>fl. 0.8s, ec. 1.2s<br>fl. 0.8s, ec. 11.2s | 33<br>10      | 4            | Yellow mast, platform.               |  |
| 10732                    | -Fano Sandende, Jerg.<br><i>B 1780</i>                        | 55° 28.9' N<br>8° 22.0' E | <b>Fl.G.</b><br>period 3s<br>fl. 0.7s, ec. 2.3s  | 23<br>7       | 6            | Green tower.                         |  |

| (1)<br>No.                  | (2)<br>Name and Location                 | (3)<br>Position           | (4)<br>Characteristic   | (5)<br>Height | (6)<br>Range          | (7)<br>Structure                                | (8)<br>Remarks  |
|-----------------------------|--|---------------------------|---|---------------|-----------------------|---|---|
| <b>DENMARK-NORTH SEA</b>    |  |                           |   |               |                       |   |   |
| 10736<br><i>B 1780.4</i>    | -Fovrfelt.                               | 55° 29.0' N<br>8° 23.7' E | <b>Fl.(2)R.</b><br>period 10s<br>fl. 1.5s, ec. 1.5s<br>fl. 1.5s, ec. 5.5s | 30<br>9       | 6                     | Red tower.                                      |   |
| 10740<br><i>B 1780.2</i>    | --N.                                     | 55° 29.3' N<br>8° 23.8' E | <b>Oc.(2)W.R.G.</b><br>period 6s<br>lt. 1s, ec. 1s<br>lt. 3s, ec. 1s      | 23<br>7       | W. 7<br>R. 5<br>G. 5  | Yellow tower.                                   | G. 327°-331°, W.-333°30', R.-342°, G. 066°30'-073°, W.-077°, R.-085°30'.  |
| 10744<br><i>B 1778</i>      | - <b>Saedenstrand</b> , S. Range, front. | 55° 28.7' N<br>8° 24.6' E | <b>F.G.</b>   | 36<br>11      | 18                    | White framework tower; 23.                      | Visible 065°30'-068°30'.<br>Shown 24 hours.   |
| 10748<br><i>B 1778.1</i>    | --Rear, about 1.2 km. 067° from front.   | 55° 29.0' N<br>8° 26.0' E | <b>F.G.</b>   | 82<br>25      | 19                    | Gray tower; 56.                                 | Visible 065°30'-068°30'.<br>Shown 24 hours.   |
| 10752<br><i>B 1779</i>      | --N. Range, front.                       | 55° 29.9' N<br>8° 23.7' E | <b>F.R.</b>   | 57<br>17      | 17                    | White framework tower; 20.                      | Visible 047°30'-050°30'.<br>Shown 24 hours.   |
| 10756<br><i>B 1779.1</i>    | --Rear, 550 meters 049° from front.      | 55° 30.1' N<br>8° 24.0' E | <b>F.R.</b>   | 93<br>28      | 18                    | Gray concrete tower; 36.                        | Visible 047°30'-050°30'.<br>Shown 24 hours.   |
| 10760<br><i>B 1782</i>      | -Strandby.                               | 55° 28.8' N<br>8° 24.6' E | <b>Oc.W.R.G.</b><br>period 5s<br>lt. 4s, ec. 1s                           | 20<br>6       | W. 11<br>R. 8<br>G. 8 | White building, red band.                       | G. 101°12'-105°54', W.-109°42', R.-111°54'.   |
| 10768<br><i>B 1784</i>      | -Commercial Fishing harbor, W. mole.     | 55° 28.6' N<br>8° 24.9' E | <b>Fl.R.</b><br>period 5s<br>fl. 1s, ec. 4s                               | 23<br>7       | 4                     | Red post; 10.<br>Floodlit.                      |   |
| 10772<br><i>B 1784.4</i>    | --E. mole.                               | 55° 28.5' N<br>8° 25.0' E | <b>Fl.G.</b><br>period 5s<br>fl. 1s, ec. 4s                               | 23<br>7       | 4                     | Green conical structure; 10.<br>Floodlit.       |   |
| 10776<br><i>B 1786</i>      | -Konsumfiskerihaven, W. mole.            | 55° 28.3' N<br>8° 25.3' E | <b>Fl.R.</b><br>period 3s<br>fl. 0.7s, ec. 2.3s                           | 20<br>6       |                       | Red framework structure; 10.                    | Visible 203°-119°.  |
| 10780<br><i>B 1788</i>      | --E. mole.                               | 55° 28.3' N<br>8° 25.4' E | <b>Fl.G.</b><br>period 3s<br>fl. 0.7s, ec. 2.3s                           | 20<br>6       |                       | Green framework structure; 10.                  | Visible 023°-256°.  |
| 10788<br><i>B 1794</i>      | -Commercial Harbor, N. mole, head.       | 55° 28.1' N<br>8° 25.5' E | <b>F.R.</b>   | 26<br>8       | 5                     | Red conical structure; 16.                      | Visible 232°-135°.<br>Shown in reduced visibility.  |
| 10792<br><i>B 1796</i>      | --S. mole, head.                         | 55° 28.1' N<br>8° 25.5' E | <b>F.G.</b>   | 26<br>8       | 5                     | Green conical structure; 16.                    | Visible 045°-276°.  |
| <b>ESBJERG HARBOR:</b>      |  |                           |   |               |                       |   |   |
| 10796<br><i>B 1804</i>      | -Commercial Harbor, W. mole, head.       | 55° 27.5' N<br>8° 26.1' E | <b>F.R.</b>   | 29<br>9       | 4                     | Red post, concrete base; 16.                    |   |
| 10800<br><i>B 1805</i>      | --E. mole, head.                         | 55° 27.4' N<br>8° 26.3' E | <b>F.G.</b>   | 29<br>9       | 4                     | Green metal post, concrete base; 16.            |   |
| 10802<br><i>B 1818.5</i>    | -Western Excavation Limit Range, front.  | 55° 27.6' N<br>8° 25.9' E | <b>F.R.</b>   | 33<br>10      | 3                     | Framework mast; 13.                             | Visible 047°-077°.  |
| 10802.1<br><i>B 1818.51</i> | --Rear, 140 meters 062° from front.      | 55° 27.6' N<br>8° 26.0' E | <b>F.R.</b>   | 43<br>13      | 3                     | Framework mast; 20.                             | Visible 047°-077°.  |
| 10806<br><i>B 1817.4</i>    | -Kremer Sand Range, front.               | 55° 27.7' N<br>8° 24.8' E | <b>F.W.</b>   | 31<br>9       | 7                     | Gray mast, post, white "X" topmark; 33.         | Visible 276°54'-306°54'.<br>Shown 24 hours.<br>Range 1M by day.   |
| 10806.1<br><i>B 1817.41</i> | --Rear, 244 meters 291°54' from front.   | 55° 27.7' N<br>8° 24.6' E | <b>F.W.</b>   | 41<br>12      | 7                     | Gray mast, post, white "X" topmark; 36.         | Visible 276°54'-306°54'.<br>Shown 24 hours.<br>Range 1M by day.<br>Marks southern boundary of dredged area at Australia Quay. |
| 10816<br><i>B 1822</i>      | -Nordby Range, front.                    | 55° 26.9' N<br>8° 24.5' E | <b>F.R.</b>   | 23<br>7       | 4                     | Wooden pole, white triangular daymark point up. | Visible 123°42'-303°42'.  |

| (1)<br>No.               | (2)<br>Name and Location             | (3)<br>Position           | (4)<br>Characteristic   | (5)<br>Height | (6)<br>Range          | (7)<br>Structure   | (8)<br>Remarks   |
|--------------------------|--------------------------------------|---------------------------|---|---------------|-----------------------|--|--|
| <b>DENMARK-NORTH SEA</b> |                                      |                           |   |               |                       |  |  |
| 10820<br><i>B 1822.1</i> | --Rear, 84 meters 214° from front.   | 55° 26.9' N<br>8° 24.4' E | <b>F.R.</b>   | 31<br>9       | 4                     | Gray framework tower, white triangular daymark point down; 30. | Visible 123°42'-303°42'.                                     |
| 10840<br><i>B 1819.6</i> | -Kremer Sand S.                      | 55° 27.3' N<br>8° 24.8' E | <b>F.G.</b>   | 17<br>5       | 3                     | Green dolphin; 13.   |  |
| HVIDE SANDE KANAL:       |                                      |                           |   |               |                       |  |  |
| 10852<br><i>B 1860</i>   | -Breakwater, head.                   | 56° 00.0' N<br>8° 06.6' E | <b>Fl.R.</b><br>period 3s<br>fl. 0.8s, ec. 2.2s                                     | 24<br>7       | 8                     | Red hut; 7.  |  |
| 10856<br><i>B 1861</i>   | -W. entrance, N. mole, head.         | 56° 00.0' N<br>8° 06.9' E | <b>Fl.R.</b><br>period 5s<br>fl. 1s, ec. 4s   | 33<br>10      | 7                     | Red structure; 16.<br>Floodlit.                                | Shown in reduced visibility.                                 |
| 10860<br><i>B 1862</i>   | --S. mole, W. head.                  | 56° 00.0' N<br>8° 06.9' E | <b>Fl.G.</b><br>period 5s<br>fl. 1s, ec. 4s   | 33<br>10      | 7                     | Green structure; 16.   | Shown in reduced visibility.                                 |
| 10864<br><i>B 1862.4</i> | -Innerhead, S. mole, head.           | 56° 00.1' N<br>8° 07.4' E | <b>F.G.</b>   | 16<br>5       | 2                     | Gray column.   |  |
| 10868<br><i>B 1862.2</i> | --N. mole, head.                     | 56° 00.1' N<br>8° 07.3' E | <b>F.R.</b>   | 16<br>5       | 4                     | Gray column; 7.  |  |
| 10872<br><i>B 1868</i>   | <b>Lyngvig.</b>                      | 56° 03.0' N<br>8° 06.3' E | <b>Fl.W.</b><br>period 5s   | 174<br>53     | 23                    | White round tower; 125.  |  |
| TORSMINDE:               |                                      |                           |   |               |                       |  |  |
| 10880<br><i>B 1880</i>   | -N. mole, about 25 meters from head. | 56° 22.4' N<br>8° 06.7' E | <b>Iso.R.</b><br>period 2s  | 30<br>9       | 5                     | Red hut; 23.   | Shown 24 hours.  |
| 10884<br><i>B 1881</i>   | -S. mole, head.                      | 56° 22.3' N<br>8° 07.0' E | <b>Iso.G.</b><br>period 2s  | 30<br>9       | 5                     | Green hut; 16.   | Shown 24 hours.  |
| 10892<br><i>B 1885</i>   | -E. side of lock.                    | 56° 22.4' N<br>8° 07.3' E | <b>Iso.W.</b><br>period 4s  | 40<br>12      | 4                     | Gray mast; 40.   | Visible 020°-160°.   |
| 10896<br><i>B 1885.2</i> | -E. side of bridge.                  | 56° 22.4' N<br>8° 07.3' E | <b>Iso.W.</b><br>period 4s  | 16<br>5       | 5                     |  | Visible 200°-340°.   |
| 10900<br><i>B 1884.4</i> | -E. Range, front.                    | 56° 22.3' N<br>8° 07.3' E | <b>F.G.</b>   | 16<br>5       | 4                     | Gray post.   |  |
| 10904<br><i>B 1884.6</i> | --Rear.                              | 56° 22.3' N<br>8° 07.3' E | <b>F.G.</b>   | 16<br>5       | 4                     | Gray post.   |  |
| 10908<br><i>B 1886</i>   | <b>Bovbjerg.</b>                     | 56° 30.8' N<br>8° 07.2' E | <b>Fl.(2)W.</b><br>period 15s   | 203<br>62     | 16                    | Red round tower; 85.   |  |
| 10910                    | <i>Thyboron Buoy.</i>                | 56° 42.8' N<br>8° 08.5' E | <b>L.Fl.W.</b><br>period 10s  |               |                       | SAFE WATER<br>RW, pillar, topmark.                             |  |
| RACON                    |                                      | T(-)                      |   | (3 & 10cm).   |                       |  |  |
| 10912<br><i>B 1890</i>   | Thyboron.                            | 56° 42.5' N<br>8° 12.9' E | <b>Fl.(3)W.</b><br>period 10s<br>fl. 1s, ec. 1s<br>fl. 1s, ec. 1s<br>fl. 1s, ec. 5s | 79<br>24      | 12                    | Framework tower; 56.   | Intensified 023°30'-203°30'.<br>Shown in reduced visibility. |
| 10916<br><i>B 1894</i>   | -Agger-Tange Range, front.           | 56° 43.0' N<br>8° 14.1' E | <b>Iso.W.R.G.</b><br>period 4s  | 26<br>8       | W. 10<br>R. 8<br>G. 8 | Beacon, red triangular daymark point up; 16.                   | G. 074°30'-079°30', W.-<br>084°30', R.-089°30'.              |
| 10920<br><i>B 1894.1</i> | --Rear, 804 meters 082° from front.  | 56° 43.0' N<br>8° 14.9' E | <b>Iso.W.</b><br>period 4s  | 56<br>17      | 11                    | Gray framework mast, red triangular daymark point down; 43.    | Visible 075°-089°. Synchronized with front.                  |
| 10924<br><i>B 1897</i>   | -Svaneholm Range, front.             | 56° 42.5' N<br>8° 14.6' E | <b>Iso.W.</b><br>period 2s  | 23<br>7       | 10                    | Red hut, red triangular daymark point up; 7.                   | Visible 113°-127°.   |

| (1)<br>No.               | (2)<br>Name and Location               | (3)<br>Position           | (4)<br>Characteristic  | (5)<br>Height | (6)<br>Range          | (7)<br>Structure   | (8)<br>Remarks   |
|--------------------------|--|---------------------------|--|---------------|-----------------------|--|--|
| <b>DENMARK-NORTH SEA</b> |  |                           |  |               |                       |  |  |
| 10928<br><i>B 1897.1</i> | --Rear, 312 meters 120° from front.    | 56° 42.4' N<br>8° 14.8' E | <b>Iso.W.</b><br>period 2s   | 42<br>13      | 10                    | Gray framework tower, red triangular daymark point down; 43. | Visible 113°-127°. Synchronized with front.  |
| 10932<br><i>B 1900</i>   | -Thyboron Tange.                       | 56° 42.4' N<br>8° 13.5' E | <b>Oc.(2)W.R.G.</b><br>period 12s<br>lt. 2s, ec. 2s<br>lt. 6s, ec. 2s                            | 20<br>6       | W. 11<br>R. 8<br>G. 8 | White tower, red band; 10.                                   | G. 122°30'-146°30', W.-150°, R.-211°18', G.-337°30', W.-340°, R.-344°. Sectors altered and light moved as channel changes. |
| 10936<br><i>B 1902</i>   | -Canal mole, head.                     | 56° 42.1' N<br>8° 13.6' E | <b>Fl.G.</b><br>period 3s<br>fl. 0.7s, ec. 2.3s  | 20<br>6       | 4                     | Green hut; 10.   |  |
| 10940<br><i>B 1903</i>   | -S. mole, head.                        | 56° 42.0' N<br>8° 13.6' E | <b>Fl.R.</b><br>period 3s<br>fl. 0.7s, ec. 2.3s  | 20<br>6       | 4                     | Red hut; 10.   |  |
| 10944<br><i>B 2070</i>   | <b>Lodbjerg.</b>                       | 56° 49.4' N<br>8° 15.8' E | <b>Fl.(2)W.</b><br>period 20s<br>fl. 1.3s, ec. 4.7s<br>fl. 1.3s, ec. 12.7s                       | 157<br>48     | 21                    | Round granite tower; 115.                                    |  |
| <b>NORRE VORUPOR:</b>    |  |                           |  |               |                       |  |  |
| 10948<br><i>B 2072</i>   | -Range, front.                         | 56° 57.5' N<br>8° 22.1' E | <b>Iso.R.</b><br>period 4s   | 65<br>20      | 9                     | Red tower, white band; 13.                                   | Visible 22°30' each side of range line. Moved as channel changes.  |
| 10952<br><i>B 2072.1</i> | --Rear, 80 meters from front.          | 56° 57.5' N<br>8° 22.3' E | <b>Iso.R.</b><br>period 4s   | 98<br>30      | 9                     | Red tower, white band; 30.                                   | Visible 22°30' each side of range line. Synchronized with front. Moved as channel changes.                                 |
| 10956<br><i>B 2074</i>   | -Mole, head.                           | 56° 57.7' N<br>8° 21.6' E | <b>Fl.G.</b><br>period 5s<br>fl. 1s, ec. 4s  | 19<br>6       | 5                     | Framework tower; 10.   |  |
| 10960<br><i>B 2080</i>   | Klitmoller Range, front.               | 57° 02.7' N<br>8° 29.2' E | <b>F.R.</b>  | 26<br>8       | 4                     | Mast; 16.  | Visible 097°-210°. Moved as channel changes. Fishing light.  |
| 10964<br><i>B 2080.1</i> | -Rear, 50 meters 146° from front.      | 57° 02.7' N<br>8° 29.2' E | <b>F.R.</b>  | 43<br>13      | 4                     | Mast; 26.  | Visible 090°-202°. Fishing light.  |
| <b>HANSTHOLM:</b>        |  |                           |  |               |                       |  |  |
| 10968<br><i>B 2084</i>   | <b>-Hansthalm.</b>                     | 57° 06.8' N<br>8° 35.9' E | <b>Fl.(3)W.</b><br>period 20s<br>fl. 0.4s, ec. 3.3s<br>fl. 0.4s, ec. 3.3s<br>fl. 0.4s, ec. 12.2s | 213<br>65     | 24                    | White octagonal tower; 75.                                   | Shown in reduced visibility.   |
| 10972<br><i>B 2087</i>   | -Entrance Range, front.                | 57° 07.1' N<br>8° 36.3' E | <b>Iso.W.</b><br>period 2s   | 121<br>37     | 13                    | Mast, red triangular daymark point up; 13.                   | Visible 127°36'-157°36'.   |
| 10976<br><i>B 2087.1</i> | --Rear, 170 meters 142°36' from front. | 57° 07.1' N<br>8° 36.3' E | <b>Iso.W.</b><br>period 2s   | 147<br>45     | 13                    | Mast, red triangular daymark point down; 13.                 | Visible 127°36'-157°36'. Synchronized with front.  |
| 10980<br><i>B 2086</i>   | -Outer mole, E. section, head.         | 57° 07.6' N<br>8° 35.7' E | <b>Fl.R.</b><br>period 3s<br>fl. 0.7s, ec. 2.3s  | 36<br>11      | 9                     | Red pillar; 16. Floodlit.                                    |  |
| 10984<br><i>B 2085</i>   | --W. section, head.                    | 57° 07.6' N<br>8° 35.5' E | <b>Fl.G.</b><br>period 3s<br>fl. 0.8s, ec. 2.2s  | 36<br>11      | 9                     | Green pillar; 16. Floodlit.                                  |  |
| 10988<br><i>B 2088</i>   | -Transverse mole, W. section, head.    | 57° 07.5' N<br>8° 35.7' E | <b>F.G.</b>  | 20<br>6       | 7                     | Green framework tower; 10. Floodlit.                         | Shown 24 hours.  |
| 10992<br><i>B 2089</i>   | --E. section, head.                    | 57° 07.4' N<br>8° 35.7' E | <b>F.R.</b>  | 20<br>6       | 6                     | Red framework tower; 10. Floodlit.                           | Shown 24 hours.  |
| 10996<br><i>B 2090</i>   | -Roshage, mole, head.                  | 57° 07.8' N<br>8° 37.2' E | <b>Fl.W.</b><br>period 5s<br>fl. 1s, ec. 4s  | 23<br>7       | 5                     | Framework tower; 16.   |  |



| (1)<br>No.               | (2)<br>Name and Location                 | (3)<br>Position           | (4)<br>Characteristic                               | (5)<br>Height   | (6)<br>Range                 | (7)<br>Structure  | (8)<br>Remarks   |
|--------------------------|--|---------------------------|---|---|------------------------------|---|--|
| <b>DENMARK-NORTH SEA</b> |  |                           |   |   |                              |   |  |
| 11000<br><i>B 2098</i>   | Lildstrand Ranges.                       | 57° 09.2' N<br>8° 57.9' E | <b>3 F.W.</b>                                       | 71<br><b>22</b><br>40<br><b>12</b><br>40<br><b>12</b> | 8<br>7<br>7                  | Unpainted wooden masts.                                 | Visible 127°-149°. Range lights. Moved as channel changes. Occasional.   |
| 11004<br><i>B 2102</i>   | Lokken.                                  | 57° 22.4' N<br>9° 42.1' E | <b>Fl.W.</b><br>period 5s<br>fl. 1s, ec. 4s         | 16<br><b>5</b>  | 6                            | Framework tower.  |  |
| 11008<br><i>B 2106</i>   | <b>Hirtshals.</b>                        | 57° 35.1' N<br>9° 56.5' E | <b>F.Fl.W.</b><br>period 30s<br>fl. 0.3s, ec. 29.7s | 187<br><b>57</b>                                      | F. <b>18</b><br>Fl <b>25</b> | White round tower; 115.                                 |  |
| 11012<br><i>B 2107</i>   | -Range, front on transverse mole.        | 57° 35.7' N<br>9° 57.7' E | <b>Iso.R.</b><br>period 2s                          | 33<br><b>10</b>                                       | 11                           | Framework tower, red triangular daymark point up; 30.   | Visible 156°-176°.   |
| 11016<br><i>B 2107.1</i> | --Rear, 330 meters 166° from front.      | 57° 35.6' N<br>9° 57.8' E | <b>Iso.R.</b><br>period 4s                          | 59<br><b>18</b>                                       | 11                           | Framework tower, red triangular daymark point down; 39. | Visible 156°-176°.   |
| 11020<br><i>B 2108</i>   | -Breakwater, head.                       | 57° 36.0' N<br>9° 57.5' E | <b>Fl.G.</b><br>period 3s<br>fl. 0.7s, ec. 2.3s     | 46<br><b>14</b>                                       | 6                            | Green mast; 33.   | <b>Horn:</b> 1 bl. ev. 15s (bl. 5s, si. 10s).  |
| 11024<br><i>B 2110</i>   | -Hirtshals outer harbor, W. mole, head.  | 57° 35.8' N<br>9° 57.6' E | <b>Fl.G.</b><br>period 5s<br>fl. 1s, ec. 4s         | 30<br><b>9</b>  | 5                            | Green mast; 33.   |  |
| 11028<br><i>B 2112</i>   | --E. mole, head.                         | 57° 35.9' N<br>9° 57.7' E | <b>Fl.R.</b><br>period 5s<br>fl. 1s, ec. 4s         | 30<br><b>9</b>  | 6                            | Red mast; 23.   |  |
| 11032<br><i>B 2113</i>   | -Inner harbor, transverse mole, E. head. | 57° 35.7' N<br>9° 57.9' E | <b>F.G.</b>   | 20<br><b>6</b>  | 4                            | Green mast; 13.   |  |
| 11035<br><i>A 7880</i>   | <b>Svend Oilfield</b> , Platform A.      | 56° 10.7' N<br>4° 10.8' E | <b>Mo.(U)W.</b><br>period 15s                       |   | <b>15</b>                    | Platform.   | Reserve light range 10M. <b>AIS</b> (MMSI No 992191521). <b>Horn:</b> Mo(U) ev. 30s (bl. 0.7s, si. 1s, bl. 0.7s, si. 1s, bl. 2.5s, si. 24.1s). |
|                          |  |                           | <b>Mo.(U)R.</b><br>period 15s                       |   | 2                            |   | Light on each of four corners.   |
|                          | RACON                                    |                           | <b>U(• • -)</b>                                     |   |                              |   | (3 & 10cm).  |
| 11038                    | Eldfisk Oilfield, platform, RACON.       | 56° 22.5' N<br>3° 16.0' E | <b>O(- - -)</b>                                     |   | <b>16</b>                    |   |  |
| 11040                    | Tor Oilfield, platform, RACON.           | 56° 38.5' N<br>3° 19.8' E | <b>N(- •)</b>                                       |   | <b>16</b>                    |   |  |
| 11042                    | Skjold Oilfield, Platform C, RACON.      | 55° 31.9' N<br>4° 54.5' E | <b>U(• • -)</b>                                     |   |                              |   | (3 & 10cm).  |

# Section 10

## Radiobeacons

| (1)<br>No.             | (2)<br>Name                                | (3)<br>Position           | (4)<br>Characteristic                | (5)<br>Range | (6)<br>Sequence | (7)<br>Frequency    | (8)<br>Remarks   |
|------------------------|--|---------------------------|--------------------------------------|--------------|-----------------|---------------------|--|
| <b>UNITED KINGDOM</b>  |  |                           |                                      |              |                 |                     |  |
| 10                     | Brighton Marina                            | 50° 48.7' N<br>0° 06.0' W | <b>BM</b><br>(- • • • - -).          | 10           |                 | 294.5<br>A1A.       |  |
| 110                    | Cloch Point Light, Calibration Radiobeacon | 55° 57.0' N<br>4° 53.0' W | <b>CL</b><br>(- • - • • - • •).      | 8            |                 | 300<br>A1A.         | Transmits upon request to Estuary Control on VHF Ch 16 or 12 or by telephone Greenock (0475) 26221. Six hours prior notice is required.  |
| <b>CHANNEL ISLANDS</b> |  |                           |                                      |              |                 |                     |  |
| 270                    | Castle Breakwater Light                    | 49° 27.4' N<br>2° 31.4' W | <b>GY</b><br>(- - • • - - - -).      | 10           |                 | 304.5<br>A1A.       | Synchronized with horn for distance finding.   |
| <b>GERMANY</b>         |  |                           |                                      |              |                 |                     |  |
| 510                    | Wilhelmshaven Calibration Radiobeacon      | 53° 31.0' N<br>8° 08.8' E | <b>VB</b><br>(• - - - - - • • •).    |              |                 | 312.6, 2168<br>A2A. | Transmits on request to Wasser and Schiffsamt Wilhelmshaven through Jade Revier on VHF Ch 16 or 20.  |
| 520                    | Bremerhaven Calibration Radiobeacon        | 53° 32.4' N<br>8° 34.9' E | <b>GB</b><br>(- - • • - • • •).      |              |                 | 312.6, 2168<br>A2A. | Transmits on request to Wasser and Schiffsamt Bremerhaven through Bremerhaven Weser Revier on VHF Ch 5 or 7.   |
| 530                    | Hollerwettern Calibration Radiobeacon      | 53° 50.4' N<br>9° 21.2' E | <b>HB</b><br>(• • • • - • • •).      |              |                 | 313.5, 2168<br>A2A. | Transmits on request to Revierzentrale Brunsbittel to all district radio channels of the Wasser and Schiffsamt Hamburg or by telephone (04852) 8011-16 ext 393 or (04852) 8400.  |
| 540                    | Krautsand Calibration Radiobeacon          | 53° 45.6' N<br>9° 22.6' E | <b>KB</b><br>(- • - - - • • •).      |              |                 | 312.6, 2168<br>A1A. | Transmits on request to Revierzentrale Brunsbittel to all district radio channels of the Wasser and Schiffsamt Hamburg or by telephone (04852) 8011-16 ext. 393 or (04852) 8400. |
| <b>DENMARK</b>         |  |                           |                                      |              |                 |                     |  |
| 570                    | Platform FC, Dan Oil Field                 | 55° 28.0' N<br>5° 08.0' E | <b>DNF</b><br>(- • • • - • • • - •). | 25           |                 | 349<br>A2A.         | AERO.  |

# Section 11

## Differential GPS Stations

| (1)<br>No.                 | (2)<br>Name                              | (3)<br>Position           | (4)<br>Station ID       | (5)<br>Range | (6)<br>Frequency | (7)<br>Transfer Rate | (8)<br>Remarks             |
|----------------------------|--|---------------------------|-------------------------|--------------|------------------|----------------------|----------------------------|
| <b>DENMARK</b>             |  |                           |                         |              |                  |                      |                            |
| 10                         | Blavands Huk                             | 55° 33.5' N<br>8° 05.1' E | T 452                   | 120          | 296.5            | 100                  |                            |
| <b>UNITED KINGDOM</b>      |  |                           |                         |              |                  |                      |                            |
| 20                         | St. Catherine's Point Light              | 52° 34.5' N<br>1° 17.8' W | T 439<br>R 680<br>R 690 | 100          | 307.5            | 100                  | Message Types: 3,7,9,16.   |
| 25                         | Wormleighton DGPS Station                | 52° 11.8' N<br>1° 21.9' W | T 439<br>R 691          | 172          | 291              | 100                  | Message Types: 3,6,7,9,16. |
| 30                         | Lizard Point Light                       | 49° 57.6' N<br>5° 12.1' W | T 441<br>R 681<br>R 691 | 100          | 306              | 100                  | Message Types: 3,7,9,16.   |
| 40                         | Nash Point Light                         | 51° 24.0' N<br>3° 33.1' W | T 449<br>R 689<br>R 699 | 100          | 309.5            | 100                  | Message Types: 3,7,9,16.   |
| 50                         | Point Lynas Light                        | 53° 25.0' N<br>4° 17.3' W | T 442<br>R 682<br>R 692 | 100          | 297.5            | 100                  | Message Types: 3,7,9,16.   |
| 60                         | Butt Of Lewis Light                      | 58° 30.9' N<br>6° 15.7' W | T 444<br>R 684<br>R 694 | 200          | 295.5            | 100                  | Message Types: 3,7,9,16.   |
| 70                         | Sumburgh Head Light<br>Shetland Islands. | 59° 51.3' N<br>1° 16.4' W | T 445<br>R 685<br>R 695 | 200          | 291.5            | 100                  | Message Types: 3,7,9,16.   |
| 80                         | Girdle Ness Light                        | 57° 08.3' N<br>2° 02.8' W | T 446<br>R 686<br>R 696 | 150          | 297              | 100                  | Message Types: 3,7,9,16.   |
| 90                         | Flamborough Head Light                   | 54° 07.0' N<br>0° 04.9' W | T 447<br>R 687<br>R 697 | 100          | 290.5            | 100                  | Message Types: 3,7,9,16.   |
| 100                        | North Foreland                           | 51° 22.5' N<br>1° 26.9' E | T 448<br>R 688<br>R 698 | 100          | 299.5            | 100                  | Message Types: 3,7,9,16.   |
| <b>REPUBLIC OF IRELAND</b> |  |                           |                         |              |                  |                      |                            |
| 110                        | Mizen Head.                              | 51° 27.0' N<br>9° 48.8' W | T 430<br>R 660<br>R 661 | 150          | 284              | 100                  | Message Types: 3,7,9,16.   |
| 120                        | Tory Island Light.                       | 55° 16.4' N<br>8° 14.9' W | T 435<br>R 670<br>R 671 | 200          | 288.5            | 100                  | Message Types: 3,7,9,16.   |
| 130                        | Loop Head Light                          | 52° 33.6' N<br>9° 55.9' W | T 432<br>R 665<br>R 666 | 150          | 293              | 100                  | Message Types: 3,7,9,16.   |

# INDEX – LIGHTS

## A

|                   |       |
|-------------------|-------|
| Aberaeron         | 5566  |
| ABERDEEN          | 2700  |
| Aberfoyle         | 7232  |
| Abermenai         | 5532  |
| Aberystwyth       | 5560  |
| Acairseid Mhor    | 3933  |
| Achill Island     | 7396  |
| Achillbeg Island  | 7416  |
| Agger-Tange       | 10916 |
| Aileen Reef       | 7312  |
| ALDERNEY          | 8288  |
| Aleria            | 6692  |
| Algies            | 4652  |
| Alligande         | 8208  |
| Alte Weser        | 10308 |
| AMELANDER GAT     | 9996  |
| Amerikahafen      | 10468 |
| Angus Rock        | 6768  |
| Annalong          | 6752  |
| Anse de Primel    | 7772  |
| Anse de Vicq      | 8420  |
| Anstruther        | 2584  |
| ANTWERPEN         | 9484  |
| Appelzak          | 9110  |
| Ar Chaden         | 7740  |
| Aran Islands      | 7472  |
| Aranmore          | 7296  |
| Ardencaple Castle | 4476  |
| Ardglass          | 6760  |
| Ardmore Point     | 4028  |
| Ardnamurchan      | 4016  |
| Ardishaig         | 4296  |
| ARDROSSAN         | 4700  |
| Ardornish Point   | 4040  |
| Ardtreck Point    | 3984  |
| Armada Bay        | 3792  |
| Arngast Sand      | 10300 |
| Arnish Point      | 3828  |
| Aught             | 7144  |
| Ault              | 8800  |
| Auskerry          | 3232  |
| Avoch             | 2908  |
| AVON RIVER        | 5996  |
| Avonmouth         | 6052  |
| AYR HARBOUR       | 4752  |

## B

|                           |       |
|---------------------------|-------|
| BAIE DE LANNION           | 7780  |
| BAIE DE MORLAIX           | 7740  |
| BAIE DE SOMME             | 8804  |
| BAIE DU MONT SAINT MICHEL | 8012  |
| Baily                     | 6652  |
| Balbriggan Island         | 6672  |
| Balfour                   | 3240  |
| Balje                     | 10520 |
| Ballinacourty Point       | 6440  |
| Ballycar                  | 6524  |
| Ballycotton Island        | 6428  |
| Ballylumford              | 7008  |
| Ballynagard               | 7196  |
| Ballywalter               | 6784  |
| Balta Islet               | 3524  |
| Bamburgh                  | 2252  |
| Bangor Harbor             | 6794  |

|                          |       |
|--------------------------|-------|
| BANNFF BAY               | 2812  |
| BANTRY HEAD              | 7640  |
| Bardsey                  | 5548  |
| BARFLEUR                 | 8432  |
| Barmouth                 | 5556  |
| Barra Head               | 3952  |
| Barrel of Butter         | 3172  |
| BARRY                    | 5836  |
| Barry Sands              | 2628  |
| Bassin de Caux           | 8728  |
| Bassin Theophile Ducrocq | 8660  |
| BATH                     | 9388  |
| Bay of Backaland         | 3254  |
| Bayswell Hill            | 2336  |
| Beachy Head              | 1140  |
| Bearhaven                | 7640  |
| Beaumaris                | 5428  |
| Bec-Lequer               | 7780  |
| Beer                     | 420   |
| Beeves Rocks             | 7576  |
| BELFAST-VICTORIA CHANNEL | 6820  |
| Bellport                 | 5944  |
| Belvedere                | 8236  |
| Bembridge Harbor         | 943   |
| Berry Head               | 344   |
| Berwick Upon Tweed       | 2264  |
| BIDEFORD                 | 6232  |
| Bill of Portland         | 448   |
| Binnenhafen              | 10168 |
| Black Head               | 6972  |
| Black Rocks              | 4200  |
| BLACKPOOL                | 5176  |
| Blackrock                | 7360  |
| Blacksod Point           | 7392  |
| BLANKENBERGE             | 9044  |
| Blankenburg              | 9724  |
| Blavandshuk              | 10716 |
| Bloody Foreland          | 7284  |
| Bloscon                  | 7756  |
| BLYTH                    | 2172  |
| Blyth Snook              | 2200  |
| Blythswood               | 4656  |
| Bodic                    | 7880  |
| Bognor Regis             | 1072  |
| Bonne Nuit Bay           | 8168  |
| Borkumriff               | 10016 |
| Boscombe                 | 580   |
| BOULOGNE                 | 8856  |
| Bournemouth              | 576   |
| Bovbjerg                 | 10908 |
| Bowling                  | 4612  |
| BRAAKMANHAVEN            | 9232  |
| Braefoot Bay             | 2393  |
| Braehead                 | 4672  |
| Brandon                  | 7596  |
| Braye Harbor             | 8288  |
| Breaksea Point           | 5824  |
| Brehon                   | 8212  |
| BREMERHAVEN              | 10388 |
| BRESKENS                 | 9136  |
| Breskens Veerhaven       | 9124  |
| Bressay                  | 3342  |
| Bridlington              | 1960  |
| Bridport                 | 432   |
| Brightlingsea            | 1432  |
| Brighton                 | 1120  |
| Brixham                  | 348   |

|                |       |
|----------------|-------|
| Broad Pill     | 6068  |
| Broadford Bay  | 3735  |
| Broadhaven     | 7380  |
| Broadstairs    | 1360  |
| Brook Hall     | 7208  |
| Brother Island | 3436  |
| Bruichladdich  | 4240  |
| Buchan Ness    | 2740  |
| BUCKIE         | 2836  |
| Buitenhaven    | 9180  |
| Bull           | 6628  |
| Bull Point     | 6228  |
| Buncrana       | 7248  |
| BURGHEAD       | 2876  |
| Burghsluis     | 9584  |
| Burnham        | 6172  |
| Burnmouth      | 2292  |
| Burntisland    | 2496  |
| Burry Port     | 5748  |
| BUSUM          | 10580 |
| Buteac         | 3764  |
| Butt of Lewis  | 3820  |

## C

|                      |      |
|----------------------|------|
| Cabry                | 7120 |
| CAERNARVON BAY       | 5528 |
| Cailleach            | 3624 |
| Cairn Ryan Point     | 4784 |
| Cairnbulg Briggs     | 2784 |
| Cairns of Coll       | 4020 |
| CALAIS               | 8904 |
| Calback Ness         | 3504 |
| Caldy Island         | 5732 |
| Calf of Flotta       | 3116 |
| Calf Sound           | 3288 |
| Calvay               | 3924 |
| Camiers              | 8840 |
| Cammell Laird        | 5240 |
| CAMPBELTOWN          | 4256 |
| Canna                | 3988 |
| Cantick Head         | 3088 |
| Cap d'Alprech        | 8844 |
| Cap d'Antifer        | 8740 |
| Cap de Carteret      | 8080 |
| Cap de la Heve       | 8628 |
| Cap Frehel           | 7960 |
| Cap Gris Nez         | 8896 |
| Cape Wrath           | 3576 |
| CARLINGFORD LOUGH    | 6704 |
| Carlisle             | 6608 |
| CARMARTHEN BAY       | 5732 |
| Carne                | 6536 |
| Carr Rock            | 2280 |
| Carragh an t'Struith | 4212 |
| Carraig Mhor         | 4216 |
| CARRICKFERGUS HARBOR | 6812 |
| Carrigin-a-t'Shrutha | 7404 |
| Carteret             | 8084 |
| Cartmel              | 5060 |
| Cashla Bay           | 7460 |
| Casquets             | 8264 |
| Castle Haven         | 6328 |
| Castle Point         | 4518 |
| Castletown           | 7644 |
| CASTLETOWN HARBOUR   | 4972 |
| Cava                 | 3176 |

# INDEX – LIGHTS

|                                   |           |
|-----------------------------------|-----------|
| Cayeux-sur-Mer                    | 8804      |
| CHANNEL LIGHTSHIP                 | 8268      |
| Channel Rock                      | 3937      |
| Chanonry                          | 2900      |
| Chapel Pill, Somerset Bank        | 6080      |
| Chapel Rock                       | 5994      |
| Charlestown                       | 102, 2452 |
| Charston Rock                     | 5984      |
| Chateau a l'Etoc Point            | 8296      |
| CHENAL D'ANTIFER                  | 8728      |
| Cherbourg (Digue Centrale)        | 8332      |
| Chicken Rock                      | 4956      |
| Chuirn                            | 4224      |
| Clacton-on-Sea                    | 1444      |
| Clare                             | 7104      |
| Clare Island                      | 7424      |
| CLAY HUTS                         | 1908      |
| CLEE NESS                         | 1806      |
| Cleggan Point                     | 7440      |
| Clevedon                          | 6156      |
| Cloghan                           | 6804      |
| Clooney                           | 7224      |
| Clovelly                          | 6242      |
| Clovelly Bay                      | 201       |
| Clydeport                         | 4560      |
| Cnap Point                        | 4444      |
| Coatmer                           | 7892      |
| Cockenzie                         | 2360      |
| Coleraine                         | 7064      |
| Colleen Point                     | 7568      |
| Common Hard                       | 984       |
| Comte Jean                        | 9044      |
| Coneyburrow                       | 7172      |
| Conwy River                       | 5416      |
| Coolkeeragh                       | 7188      |
| Cooper Point                      | 6312      |
| Copinsay                          | 3228      |
| Coquet Island                     | 2228      |
| Corbet du Nez                     | 8261      |
| CORK HARBOR AND COBH (QUEENSTOWN) | 6356      |
| Corkbeg                           | 6376      |
| Corn-Carhai                       | 7692      |
| Corpach                           | 4092      |
| Corran                            | 4192      |
| Corran Point                      | 4080      |
| Corren's Rock                     | 7320      |
| Corsewall                         | 4796      |
| Courtmacsherry Harbor             | 6336      |
| Cowes                             | 924       |
| Craignure                         | 4048      |
| Craigton Point                    | 2916      |
| Crail                             | 2604      |
| Crammag Head                      | 4812      |
| Crannoge Point                    | 7264      |
| Craobh                            | 4151      |
| Creag Mhor                        | 3598      |
| Cremyll Shoal                     | 272       |
| Crinan Canal                      | 4156      |
| Croaghnaekeela Island             | 7452      |
| Cromer                            | 1676      |
| Crookhaven                        | 7688      |
| Cross Sand Buoy                   | 1656      |
| Crow Point, Taw River             | 6240      |
| Crowlin                           | 3704      |
| Crummin Point                     | 7156      |
| Cullercoats                       | 2160      |

|         |      |
|---------|------|
| Culmore | 7176 |
| Cumbræ  | 4336 |

## D

|                            |       |
|----------------------------|-------|
| Dahouet                    | 7948  |
| Dale Fort                  | 5644  |
| Dallimores                 | 5948  |
| Dalmuir                    | 4640  |
| Darrynane Bay              | 7628  |
| Darse Sarraz-Bourmet       | 8872  |
| DARTMOUTH                  | 328   |
| Demie de Pas               | 8140  |
| Den Helder                 | 9900  |
| Den Hoorn                  | 9948  |
| Den Point                  | 402   |
| Derby Haven                | 4988  |
| Devils Point               | 268   |
| Dielette                   | 8092  |
| Dingle Harbour             | 7604  |
| Dog Rock (Carraig nan Ron) | 4440  |
| Don River                  | 2736  |
| Donaghadee Harbor          | 6788  |
| Donalds                    | 4616  |
| DOUGLAS BAY                | 4992  |
| Dover                      | 1236  |
| DOVER STRAIT               | 1220  |
| Downings Bay               | 7268  |
| Dowsing                    | 1764  |
| Draaiende Sluis            | 9528  |
| Drake Channel              | 254   |
| Drumskellan                | 7148  |
| Duart Point                | 4056  |
| Dubh Artach                | 4000  |
| Dubh Sgeir                 | 4132  |
| DUBLIN BAY                 | 6592  |
| Dumbuck                    | 4600  |
| Dun Cor Mor                | 3872  |
| Dun Laoghaire (Kingstown)  | 6600  |
| DUNBAR                     | 2332  |
| Duncannon                  | 6476  |
| DUNDALK PILE               | 6696  |
| Dundooan Rocks             | 7260  |
| Dunenhafen                 | 10184 |
| DUNGARVAN BAY              | 6440  |
| Dunglass                   | 4608  |
| DUNKERQUE                  | 8980  |
| Dunmore East               | 6464  |
| Dunollie                   | 4104  |
| DUNOON                     | 4384  |
| Dunree Head                | 7244  |
| Dunskeig Bay               | 4184  |
| DUNSTAFFNAGE BAY           | 4096  |
| Dwarsgat                   | 10328 |

## E

|                   |      |
|-------------------|------|
| Eagle Island      | 7384 |
| East Cote         | 4848 |
| EAST LOCH TARBERT | 3876 |
| East Maiden       | 7016 |
| East Twin Island  | 6904 |
| East Usk          | 5904 |
| Eastbourne        | 1148 |
| Eastern King      | 254  |
| Eastham Channel   | 5280 |
| Eastney Point     | 1036 |

|  |         |
|--|---------|
| Eddystone  | 132     |
| Eendragtspolder  | 9292    |
| Eeragh Island  | 7472    |
| Egilsay  | 3308    |
| Edmond aan Zee   | 9864    |
| Eigg   | 4012    |
| Eilean a'Choic   | 4288    |
| Eilean na Gothail                                      | 3840    |
| Eilean nan Gabhar                                      | 4176    |
| Eilean Sionnach  | 3800    |
| Eileanan Glasa (Green Island)                          | 4036    |
| Eileen Triaghe   | 4188    |
| Eirland  | 9960    |
| ELBE RIVER ENTRANCE                                    | 10424   |
| Elbe River entrance light with tide gauge (second one) | 10575.2 |
| Elgol  | 3986    |
| Elie Ness  | 2552    |
| Epec   | 8200    |
| Erquy  | 7954    |
| Erskine  | 4628    |
| Erwarton Ness  | 1520    |
| ESBJERG APPROACH                                       | 10720   |
| ESBJERG HARBOR   | 10796   |
| Esha Ness  | 3544    |
| Europoort  | 9672    |
| EXMOUTH  | 408     |
| Eyemouth   | 2300    |
| Eyre Point   | 3708    |

## F

|                         |       |
|-------------------------|-------|
| FAIR ISLE               | 3312  |
| Fairfield               | 4688  |
| Falaise des Fonds       | 8616  |
| FALLS BANK              | 1332  |
| FALMOUTH                | 68    |
| Fanad Head              | 7240  |
| Fano Sandende           | 10732 |
| FARNE ISLANDS           | 2256  |
| Faslane Base            | 4528  |
| Fastnet Rock            | 6308  |
| Faughan                 | 7164  |
| Fawley Pier             | 740   |
| Fenit                   | 7592  |
| Fife Ness               | 2612  |
| Filey                   | 1968  |
| FIRTH OF FORTH          | 2344  |
| FIRTH OF INVERNESS      | 2900  |
| Firths Voe              | 3428  |
| Fisherrow               | 2364  |
| FISHGUARD HARBOUR       | 5572  |
| Fladda                  | 4128  |
| Flamborough Head        | 1964  |
| Flannan Isles           | 3912  |
| Fleetwood               | 5152  |
| FOHR                    | 10644 |
| Folkestone              | 1228  |
| Fort Blockhouse         | 960   |
| Fort Central            | 8336  |
| Fort Davis              | 6368  |
| Fort de l'Est           | 8340  |
| Fort de Nolle           | 9164  |
| Fort de Parel           | 9496  |
| Fort Filip              | 9512  |
| Foula Island South Ness | 3562  |
| Fountain Lake           | 988   |

# INDEX – LIGHTS

|                       |       |
|-----------------------|-------|
| Fovrfelt              | 10736 |
| FOWEY                 | 104   |
| Foynes Harbor         | 7560  |
| FRASERBURGH           | 2788  |
| Friedrichskoog Harbor | 10576 |
| FRIESCHE GAT          | 10008 |
| Fugla Ness            | 3484  |
| Furzey Island         | 573   |

## G

|                         |       |
|-------------------------|-------|
| Gairloch                | 3648  |
| Galley Head             | 6332  |
| GALWAY BAY              | 7456  |
| Ganges                  | 1516  |
| Gantock                 | 4380  |
| Garbh Eilean            | 3700  |
| Garellohead             | 4544  |
| Garlieston              | 4824  |
| Garraunbaun Point       | 7552  |
| Garston                 | 5320  |
| Gasker Island           | 3914  |
| Gate Rock               | 8205  |
| GERMAN BIGHT LIGHTFLOAT | 10060 |
| Gibraltar               | 3144  |
| Girdle Ness             | 2696  |
| Girvan                  | 4776  |
| Glas Eilean             | 4304  |
| Glas Leac               | 3604  |
| Glenburnie              | 7096  |
| Gloucester Bank         | 6064  |
| Gluss Isle              | 3476  |
| Godrevy Island          | 6284  |
| GOEREE EN OVER-FLAKKEE  | 9592  |
| Gorey                   | 8152  |
| Gorleston               | 1624  |
| Gourdon                 | 2664  |
| GOUROCK BAY             | 4416  |
| Graemsay Island         | 3196  |
| Grand Jardin            | 7980  |
| Grandcamp-les-Bains     | 8504  |
| Grande Passe Range      | 7836  |
| Granton                 | 2380  |
| GRAVELINES              | 8924  |
| Great Castle Head       | 5632  |
| Great Samphire Island   | 7588  |
| GREAT YARMOUTH          | 1624  |
| Greenbank               | 7128  |
| Greenhead               | 3396  |
| GREENOCK                | 4552  |
| Greenore                | 6714  |
| GREENWICH LIGHTSHIP     | 1128  |
| Greinam                 | 3920  |
| Grey Rocks              | 4044  |
| GRIMSBY                 | 1824  |
| Grosnez Point           | 8176  |
| GUERNSEY                | 8180  |
| GW/EMS LIGHTFLOAT       | 10014 |

## H

|                |       |
|----------------|-------|
| Haldon         | 380   |
| Halfway Shoal  | 5054  |
| HANSTHOLM      | 10968 |
| Hansweert      | 9328  |
| Happisburgh    | 1668  |
| Hartland Point | 6252  |

|                    |       |
|--------------------|-------|
| HARTLEPOOL         | 2052  |
| Haskier Island     | 3954  |
| HASTINGS           | 1164  |
| Haulbowline        | 6704  |
| Haulbowline Basin  | 6392  |
| HAVEN VAN IJMUIDEN | 9792  |
| Hawkcraig Point    | 2390  |
| HAWKE LIGHTFLOAT   | 1796  |
| Haws Point         | 5056  |
| Helgoland          | 10136 |
| HELLEVOETSLUIS     | 9624  |
| Helliar Holm       | 3236  |
| Heogan             | 3402  |
| Herd Groyne        | 2112  |
| Herdman Channel    | 6936  |
| HERM               | 8200  |
| Herne Bay          | 1376  |
| Hestan Islet       | 4832  |
| Hilbre Island      | 5380  |
| Hillswick          | 3548  |
| Hinkley Point      | 6168  |
| Hirtshals          | 11008 |
| Hofe               | 10376 |
| Hohe Weg           | 10324 |
| HOLBEACH RANGE     | 1724  |
| Holwerd            | 10004 |
| HOLY ISLAND        | 2262  |
| HOLYHEAD           | 5476  |
| Honfleur           | 8612  |
| Hook Head          | 6460  |
| HOPEMAN            | 2864  |
| Hornum             | 10676 |
| Horse Sand Fort    | 1028  |
| Houton Bay         | 3188  |
| Howth              | 6656  |
| Hoxa Head          | 3100  |
| Hoy Sound          | 3196  |
| Huisduinen         | 9880  |
| Hurst Point        | 596   |
| Hythe              | 760   |

## I

|                      |       |
|----------------------|-------|
| Ichaboe              | 2044  |
| Ijmuiden             | 9854  |
| Ile de Batz          | 7732  |
| Ile de Brehat        | 7860  |
| Ile du Large         | 8472  |
| Ile Louet            | 7760  |
| Ile Noire            | 7768  |
| Ile Pelee            | 8344  |
| Ile Vierge           | 7716  |
| Iles Causey          | 8020  |
| ILES ST. MARCOUF     | 8472  |
| Ilfracombe           | 6220  |
| Illancrone Island    | 7300  |
| IMMINGHAM            | 1872  |
| Inchcolm             | 2408  |
| Inchkeith            | 2388  |
| Industriegebiet      | 10532 |
| Inishbofin           | 7432  |
| Inishcrone           | 7376  |
| Inisheer             | 7496  |
| Inishnee             | 7448  |
| Inishowen Head       | 7076  |
| Inishsirr Island     | 7288  |
| Inishtearaght Island | 7600  |

|                         |      |
|-------------------------|------|
| Inishtrahull            | 7236 |
| Inverkeithing           | 2396 |
| Inverness               | 2920 |
| IRVINE                  | 4716 |
| Isle of Grain           | 1400 |
| Isle of Skye            | 3712 |
| Isle of Whithorn Harbor | 4820 |
| ISLE OF WIGHT           | 1052 |

## J

|            |      |
|------------|------|
| JERSEY     | 8100 |
| Johnshaven | 2656 |

## K

|                       |       |
|-----------------------|-------|
| Kaapduinen            | 9156  |
| Kaiserhafen           | 10400 |
| Kampen (Rote Kliff)   | 10700 |
| Kempock Point         | 4416  |
| Kennacraig            | 4204  |
| Kermouster            | 7888  |
| Kerprigent            | 7812  |
| Kerrera               | 4100  |
| Kettle Point          | 336   |
| Kettletoft            | 3272  |
| Kiggaul Bay           | 7456  |
| Kijkduin              | 9884  |
| Kilchoan              | 4030  |
| Kilderry              | 7152  |
| Kilkeel Harbor        | 6740  |
| KILLEYBEGS            | 7340  |
| KILLINGHOLME          | 1912  |
| Kilmokea              | 6492  |
| Kilmore               | 6532  |
| Kilronan              | 7492  |
| Kilroot Point         | 6796  |
| King Road             | 6052  |
| Kingswear             | 328   |
| Kinnairds Head        | 2808  |
| Kinsale, Charles Fort | 6344  |
| Kirkcaldy             | 2512  |
| Kirktown              | 2752  |
| KIRKWALL              | 3244  |
| Kish Bank             | 6592  |
| Klitmoller            | 10960 |
| Konsumfiskerihaven    | 10776 |
| Krankeloon            | 9504  |
| Kruisschans           | 9484  |
| Kyle Akin             | 3744  |
| Kyle of Loch Alsh     | 3756  |
| Kyle Rhea             | 3812  |
| Kyleskv               | 3602  |

## L

|                      |      |
|----------------------|------|
| L'ABERWRAC'H         | 7704 |
| L'Ost-Pic (Lost Pic) | 7916 |
| La Ballue            | 8004 |
| La Corbiere          | 8100 |
| La Corne             | 7832 |
| La Croix             | 7876 |
| La Foraine           | 8095 |
| La Greve d'Azette    | 8144 |
| La Horaine           | 7856 |
| La Hougue            | 8464 |
| La Maresquerie       | 8492 |

## INDEX – LIGHTS

|                                  |        |
|----------------------------------|--------|
| La Plate .....                   | 7988   |
| Lady Isle .....                  | 4744   |
| Lady's Rock .....                | 4068   |
| Langeoog .....                   | 10124  |
| Langlutjen Sand .....            | 10352  |
| Langness .....                   | 4984   |
| Largs .....                      | 4352   |
| Laxey .....                      | 5028   |
| Laxfirth .....                   | 3406.5 |
| Le Crotoy .....                  | 8812   |
| Le Grand Lejon .....             | 7920   |
| LE HAVRE .....                   | 8632   |
| Le Hourdel .....                 | 8808   |
| Le Legue .....                   | 7940   |
| Le Loup .....                    | 8040   |
| Le Pignon .....                  | 8028   |
| Le Rohein .....                  | 7952   |
| LE SANDETTIE .....               | 8932   |
| Le Senequet .....                | 8064   |
| Le Touquet .....                 | 8832   |
| LE TREPORT .....                 | 8792   |
| Lees Scar Rock .....             | 4844   |
| Leigh Woods, Somerset Bank ..... | 6112   |
| Leith .....                      | 2368   |
| Lepers Point .....               | 7132   |
| LERWICK .....                    | 3344   |
| Les Bas Sablons .....            | 8000   |
| Les Hanois .....                 | 8180   |
| Les Heaux-de-Brehat .....        | 7844   |
| Les Sept Iles .....              | 7796   |
| Les Triagoz .....                | 7792   |
| Leugenaarshoofd .....            | 9172   |
| Leysiel .....                    | 10054  |
| Liefkenshoek .....               | 9472   |
| Lildstrand .....                 | 11000  |
| Lillo .....                      | 9464   |
| Linga Island .....               | 3429   |
| Linthouse .....                  | 4684   |
| Lismore .....                    | 4072   |
| List West .....                  | 10704  |
| Little Holm .....                | 3456   |
| Little Roe .....                 | 3472   |
| Little Ross .....                | 4827   |
| Little Samphire Island .....     | 7584   |
| LITTLEHAMPTON .....              | 1076   |
| Liverpool .....                  | 5336   |
| Lizard Point, .....              | 64     |
| Llanddulas .....                 | 5400   |
| Llandudno .....                  | 5408   |
| Llanreath .....                  | 5708   |
| Loch Carloway .....              | 3916   |
| Loch Carnan .....                | 3904   |
| LOCH CRENAN .....                | 4060   |
| Loch Dunvegan .....              | 3972   |
| Loch Eatharna .....              | 4024   |
| Loch Eriboll White Head .....    | 3580   |
| LOCH FYNE .....                  | 4276   |
| Loch Gairloch .....              | 3644   |
| LOCH GOIL .....                  | 4441   |
| Loch Indaal .....                | 4236   |
| LOCH INVER .....                 | 3604   |
| LOCH LINNHE .....                | 4080   |
| LOCH MADDY .....                 | 3888   |
| LOCH MELFORT .....               | 4150   |
| LOCH RYAN .....                  | 4784   |
| Loch Spelve .....                | 4058   |
| Loch Striven .....               | 4372   |

|  |       |
|--|-------|
| Lodbjerg .....                         | 10944 |
| Lokken .....                           | 11004 |
| Long Hope .....                        | 3096  |
| Longannet Point .....                  | 2492  |
| Longhaugh .....                        | 4604  |
| Longships .....                        | 24    |
| Looe .....                             | 128   |
| Loofa Baa .....                        | 3376  |
| Loop Head .....                        | 7528  |
| Lossiemouth .....                      | 2856  |
| Loth .....                             | 3270  |
| LOUGH FOYLE .....                      | 7112  |
| LOUGH SWILLY .....                     | 7240  |
| LOWER BURCOM .....                     | 1820  |
| Lower Horseshoe, Gloucester Bank ..... | 6084  |
| Lower Rosses .....                     | 7364  |
| Lundy Island .....                     | 6244  |
| Lune River .....                       | 5144  |
| Lybster .....                          | 2988  |
| Lyme Regis .....                       | 424   |
| Lyngvig .....                          | 10872 |
| Lynmouth Foreland .....                | 6208  |
| Lytham St. Annes .....                 | 5192  |

### M

|                                |       |
|--------------------------------|-------|
| Maassluis .....                | 9716  |
| Maker Point .....              | 144   |
| Mambeg .....                   | 4524  |
| Margarethapolder .....         | 9288  |
| MARYPORT .....                 | 4860  |
| Maughold Head .....            | 5036  |
| Maurice Clark Point .....      | 4584  |
| Maurice Thieullent Digue ..... | 8708  |
| McArthur's Head .....          | 4220  |
| McInroy's Point .....          | 4396  |
| McKinney's Bank .....          | 7088  |
| Mean Ruz .....                 | 7800  |
| Meestof .....                  | 9492  |
| Mellumplate .....              | 10316 |
| Men Joliguet .....             | 7868  |
| MENAI STRAIT .....             | 5420  |
| Men-Guen-Bras .....            | 7744  |
| Metal Man Rock .....           | 7368  |
| Methil .....                   | 2532  |
| Mevagissey .....               | 100   |
| Mew Island .....               | 6792  |
| Milaid .....                   | 3860  |
| Milford .....                  | 5672  |
| MILFORD HAVEN .....            | 5608  |
| Millbrook .....                | 280   |
| MILLPORT .....                 | 4340  |
| Millstone Point .....          | 832   |
| Mine Head .....                | 6436  |
| Minehead .....                 | 6204  |
| Mississippihaven .....         | 9696  |
| Mizen Head .....               | 7684  |
| Moclett Bay .....              | 3304  |
| Mogueriec .....                | 7724  |
| Molenhoofd .....               | 9148  |
| Monach Islands .....           | 3955  |
| Monkstone Rock .....           | 5864  |
| Monkstown .....                | 6404  |
| Mont Ube .....                 | 8148  |
| Montrose .....                 | 2640  |
| Mooragh Bank .....             | 5048  |
| MORECAMBE BAY .....            | 5052  |

|                            |      |
|----------------------------|------|
| Moul of Eswick .....       | 3408 |
| Mountjoy .....             | 7204 |
| Mousa .....                | 3324 |
| Moville .....              | 7092 |
| MOW .....                  | 9067 |
| Muckle Holm .....          | 3452 |
| Muckle Roe .....           | 3552 |
| Muckle Skerry .....        | 3424 |
| Muff .....                 | 7168 |
| Muglins .....              | 6596 |
| Mull of Galloway .....     | 4816 |
| Mull of Kintyre .....      | 4244 |
| MULROY BAY AND LOUGH ..... | 7256 |
| Mumbles .....              | 5756 |
| Musgrave Channel .....     | 6888 |
| Musoir .....               | 8996 |
| Mutton Cove .....          | 276  |

### N

|                                  |            |
|----------------------------------|------------|
| Na Cuiitean .....                | 4180       |
| Nab .....                        | 1048       |
| Nairn .....                      | 2892       |
| Nash Point .....                 | 5816       |
| Needle Point .....               | 3160       |
| Needles .....                    | 584        |
| NEEDLES CHANNEL .....            | 584, 7364  |
| Nelson Point Channel .....       | 6060       |
| Nes .....                        | 10000      |
| Ness of Bardister .....          | 3512       |
| Neuer Fahrhafen .....            | 10448      |
| Neuer Hafen .....                | 10408      |
| Neuwerk .....                    | 10436      |
| Nevi Skerry .....                | 3112       |
| New Channel .....                | 520        |
| NEWHAVEN .....                   | 1132       |
| NEWQUAY .....                    | 6276       |
| Newry River .....                | 6724       |
| Newshot Island .....             | 4648       |
| Newton Noyes .....               | 5692       |
| Niedersachsenbrücke .....        | 10220      |
| Nieuwe Haven .....               | 9928       |
| NIEUWPOORT .....                 | 9008       |
| Nightingale Valley .....         | 6132       |
| Nimmo .....                      | 7524       |
| Noirmont Point .....             | 8108       |
| Noord Hinder .....               | 9106       |
| Noorderbinnenhoofd .....         | 9780       |
| Noorderdam .....                 | 9648       |
| Noorderhoofd .....               | 9140, 9768 |
| Noordketel .....                 | 9396       |
| Nord Ballastplaat .....          | 9412       |
| Nordby .....                     | 10816      |
| NORDDEICH .....                  | 10100      |
| Norddorf .....                   | 10636      |
| NORDERNEY .....                  | 10072      |
| Nordmarsch .....                 | 10640      |
| NORRE VORUPOR .....              | 10948      |
| North Berwick .....              | 2348       |
| North Foreland .....             | 1364       |
| North Haven Point .....          | 572        |
| North Havra .....                | 3561       |
| North Ness .....                 | 3372       |
| North Scroby .....               | 1650       |
| North Shields .....              | 2116       |
| NORTH SOUND OF ARAN ISLAND ..... | 7298       |
| NORTH SUNDERLAND .....           | 2244       |

# INDEX – LIGHTS

|                                 |      |
|---------------------------------|------|
| North Unst .....                | 3540 |
| Noss Head .....                 | 3012 |
| Noup Head .....                 | 3292 |
| Nouster .....                   | 3284 |
| NOUVEAU PORT OUEST DE DUNKERQUE | 8948 |

## O

|                           |       |
|---------------------------|-------|
| OBAN .....                | 4100  |
| Oigh Sgeir .....          | 3992  |
| Oland .....               | 10652 |
| Old Head of Kinsale ..... | 6340  |
| Oldenhorn .....           | 10644 |
| Omonville-La Rogue .....  | 8308  |
| OOSTENDE .....            | 9020  |
| Ossehoek .....            | 9588  |
| Othenepolder .....        | 9284  |
| Otter Spit .....          | 4300  |
| Otterndorf/Belum .....    | 10502 |
| Ouddorp Haven .....       | 9592  |
| Oude Hooft .....          | 9348  |
| Oude Maas .....           | 9732  |
| Oudeschild .....          | 9956  |
| Out Skerries .....        | 3420  |
| Outer Gabbard .....       | 1560  |
| Oxcars .....              | 2392  |

## P

|                            |      |
|----------------------------|------|
| Paddy Rock .....           | 4308 |
| PADSTOW .....              | 6256 |
| Paignton Harbour .....     | 376  |
| PAIMPOL .....              | 7904 |
| Papa Stronsay .....        | 3268 |
| Parkeston .....            | 1536 |
| Passe de l'Est Range ..... | 7808 |
| Passe de l'Ouest .....     | 7820 |
| PEEL .....                 | 4924 |
| Pembroke .....             | 5712 |
| Penanglas .....            | 5588 |
| Penarth .....              | 5900 |
| Pendeen .....              | 6304 |
| Peninnis Head .....        | 8    |
| Pennar .....               | 5704 |
| PENZANCE .....             | 48   |
| PERROS-GUIREC .....        | 7804 |
| PETERHEAD .....            | 2744 |
| Phillip Lucette .....      | 400  |
| Pierre de Herpin .....     | 8012 |
| Pillar Rock Point .....    | 4320 |
| Pittweem .....             | 2568 |
| Plaat van Doel .....       | 9416 |
| PLATEAU DE BARNOUIC .....  | 7852 |
| Platte .....               | 8196 |
| Platte Fougere .....       | 8184 |
| Platte Rock .....          | 8128 |
| Plover Scar .....          | 5144 |
| Point Lynas .....          | 5464 |
| Point of Ayre .....        | 4896 |
| Point of Fethaland .....   | 3448 |
| Point of Sleat .....       | 3788 |
| Point Robert .....         | 8260 |
| Pointe d'Ailly .....       | 8768 |
| Pointe de Porz-Don .....   | 7904 |
| Pointe de Saire .....      | 8448 |
| Pointe du Roc .....        | 8036 |
| POLPERRO .....             | 120  |

|                                   |      |
|-----------------------------------|------|
| Pontusval Pointe de Beg-Pol ..... | 7720 |
| Poolbeg .....                     | 6620 |
| Poortershaven .....               | 9704 |
| Popton Point .....                | 5648 |
| Port Blanc .....                  | 7824 |
| Port Crannaich .....              | 4272 |
| Port de Levi .....                | 8412 |
| Port Dinorwic .....               | 5544 |
| Port Dornaige .....               | 4428 |
| Port Edgar .....                  | 2420 |
| Port Ellen .....                  | 4228 |
| PORT ERIN .....                   | 4936 |
| PORT GLASGOW .....                | 4588 |
| Port Seton .....                  | 2356 |
| PORT ST. MARY .....               | 4960 |
| Port Talbot .....                 | 5800 |
| Portavadie .....                  | 4280 |
| Portavogie Harbor .....           | 6776 |
| Portbail .....                    | 8068 |
| PORT-EN-BESSIN .....              | 8524 |
| Porthleven .....                  | 60   |
| Portishead .....                  | 6140 |
| PORTLAND .....                    | 448  |
| Portnablahy .....                 | 7272 |
| Portpatrick .....                 | 4804 |
| Portrush .....                    | 7040 |
| Portsall .....                    | 7700 |
| PORTSMOUTH .....                  | 948  |
| Portsoy .....                     | 2828 |
| Portstewart Point .....           | 7056 |
| Powderham Terrace .....           | 396  |
| Purteen .....                     | 7420 |

## Q

|                      |      |
|----------------------|------|
| Quai de Maree .....  | 8913 |
| Queens Channel ..... | 6504 |
| Quey Firth .....     | 3464 |
| Quigleys Point ..... | 7124 |

## R

|                              |      |
|------------------------------|------|
| RAMSEY .....                 | 5040 |
| Rapness .....                | 3290 |
| Rashielee .....              | 4636 |
| Rathlin East .....           | 7032 |
| RATHLIN ISLAND .....         | 7028 |
| Rathlin O'Brine Island ..... | 7332 |
| Rathmullan .....             | 7252 |
| Ratray Head .....            | 2776 |
| Ravedy Island .....          | 7256 |
| Ravenrock Point .....        | 4424 |
| Red Bay .....                | 7020 |
| REDCAR .....                 | 2000 |
| Redcastle .....              | 7108 |
| Redcliffe .....              | 5988 |
| Reigersbergsche Polder ..... | 9404 |
| Reisa an t-Struith .....     | 4152 |
| Renfrew West .....           | 4660 |
| Rhynns of Islay .....        | 4232 |
| Rhu Point .....              | 4508 |
| Rhu Stoer .....              | 3600 |
| Rhuda Mhail .....            | 4208 |
| RHYL .....                   | 5396 |
| RIBBLE RIVER .....           | 5192 |
| Rinealon Point .....         | 7556 |
| Rinmore .....                | 7512 |

|  |        |
|--|--------|
| Rinnalea Point .....                     | 7292   |
| River Bann .....                         | 7060   |
| RIVER DEE .....                          | 5380   |
| River Itchen .....                       | 768    |
| River Lagan .....                        | 6920   |
| River Liffey .....                       | 6620   |
| RIVER PARRETT .....                      | 6172   |
| RIVER TEES .....                         | 2016   |
| RIVER TYNE .....                         | 2104   |
| Roan Head .....                          | 3108   |
| Roancarrigmore .....                     | 7660   |
| Robbennordsteert .....                   | 10336  |
| Robbenplate .....                        | 10340  |
| Roche Barnouic .....                     | 7852   |
| Roche's Point .....                      | 6356   |
| Rocher Men Grenn .....                   | 7872   |
| Rona .....                               | 3574   |
| Roscoff .....                            | 7748   |
| Rose Ness .....                          | 3164   |
| Rosedo .....                             | 7864   |
| Roshage .....                            | 10996  |
| Rosneath Patch .....                     | 4464   |
| Rossaveel .....                          | 7464   |
| Rosse's Bay .....                        | 7216   |
| ROSSLARE .....                           | 6544   |
| Rosyth .....                             | 2428   |
| Rotten Island .....                      | 7340   |
| ROTTERDAMSCHIE WATERWEG .....            | 9704   |
| Round Island .....                       | 16     |
| Roustel .....                            | 8192   |
| Rova Head .....                          | 3404   |
| Royal Clarence Yard Fort .....           | 1000   |
| Royal Sovereign .....                    | 1144   |
| Ru Na Lachan .....                       | 3724   |
| Ruadh Sgeir .....                        | 4168   |
| Rubha Cadail .....                       | 3616   |
| Rubha Chuilairbh .....                   | 3684   |
| Rubha na Lecaig, (Ministers Point) ..... | 3584   |
| Rubha nan Gall (Runa Gal) .....          | 4032   |
| Rubha Reidh .....                        | 3640   |
| Rudna Nam Pleac .....                    | 3894   |
| Rue Point .....                          | 7028   |
| Ruff Reef .....                          | 3092   |
| Ruigh Liath .....                        | 3896   |
| Rumble Rock .....                        | 3429.5 |
| Runnaneun Point .....                    | 4332   |
| RUTLAND ISLAND SOUTH CHANNEL .....       | 7320   |

## S

|                                |       |
|--------------------------------|-------|
| Saedenstrand .....             | 10720 |
| Saint Antonie .....            | 7840  |
| Saint-Quay-Portrieux .....     | 7926  |
| SALCOMBE .....                 | 308   |
| Salt pans .....                | 7100  |
| SAND END .....                 | 1940  |
| Sanda Island .....             | 4248  |
| Sandaig .....                  | 3808  |
| SANDETTIE LIGHTFLOAT .....     | 8932  |
| Sandhill Point .....           | 308   |
| Sandown .....                  | 1052  |
| Sandwich Bay .....             | 3836  |
| Sandy Point, Chain Tower ..... | 6984  |
| Sangatte .....                 | 8900  |
| SARK .....                     | 8260  |
| Saulia .....                   | 7400  |
| Saundersfoot .....             | 5744  |



# INDEX – LIGHTS

|                            |         |
|----------------------------|---------|
| Scalasaig                  | 4140    |
| Scapa                      | 3168    |
| SCAPA FLOW AND APPROACHES  | 3092    |
| SCARBOROUGH                | 1972    |
| Scarinish                  | 4004    |
| Schiernonnikoog            | 10008   |
| Schilbolsnol               | 9952    |
| Schleuseninsel             | 10528   |
| Schone Waardin             | 9188    |
| Schore                     | 9320    |
| SCHOUWEN EN DUIVELAND      | 9576    |
| Schouwenbank               | 9137    |
| Schull Harbor              | 6316    |
| Scrabster Harbor           | 3064    |
| Scurdie Ness               | 2636    |
| Sea Mills                  | 6100    |
| Seacombe                   | 5216    |
| SEAHAM                     | 2068    |
| SEINE ESTUARY              | 8608    |
| Sella Ness                 | 3496    |
| Sgat More                  | 4276    |
| Sgeir Bhuidhe              | 4076    |
| Sgeir Dhearg               | 3780    |
| Sgeir Dubh                 | 3936    |
| Sgeir Ghlas                | 3876    |
| Sgeir Mhein                | 4196    |
| Sgeir Shuas                | 3668    |
| Sgeirean Dubha             | 4120    |
| Shakespeare Cliff          | 1234    |
| Shannon Airport            | 7580    |
| Sheerness                  | 1404    |
| Sheringham                 | 1688    |
| Shieldhall East            | 4680    |
| SHOREHAM                   | 1104    |
| Sidmouth                   | 418     |
| SILLOTH                    | 4844    |
| SIZEWELL                   | 1568    |
| Skadan                     | 3312    |
| Skelligs Rock              | 7624    |
| Skerries Bay               | 6668    |
| Skerry of Ness             | 3204    |
| Skerryvore                 | 3996    |
| Skervuile                  | 4172    |
| Skokholm                   | 5604    |
| Skroo                      | 3316    |
| SKYE                       | 3720    |
| S-lich Hohe-Schaar-Hafen   | 10579.1 |
| SLIGO HARBOR               | 7360    |
| Sloehaven (Flushing East)  | 9192    |
| Slyne Head                 | 7444    |
| Smelting House Point       | 6520    |
| Snowhill                   | 6496    |
| Solthorn                   | 10368   |
| Sorel Point                | 8164    |
| SOUND OF JURA              | 4152    |
| SOUND OF MULL              | 4028    |
| South Arklow Buoy          | 6556    |
| South Bishop               | 5596    |
| South Gare                 | 2020    |
| SOUTH KILLINGHOLME         | 1909    |
| South Parade               | 952     |
| SOUTH SOUND OF ARAN ISLAND | 7300    |
| SOUTHAMPTON                | 768     |
| SOUTHAMPTON WATER          | 664     |
| Southport                  | 5200    |
| Southsea Castle            | 956     |
| SOUTHWOLD                  | 1576    |

|                                       |       |
|---------------------------------------|-------|
| Soyea Island                          | 3608  |
| Spiddle                               | 7504  |
| Spit Bank                             | 6380  |
| Spit Sand Fort                        | 948   |
| SPURN                                 | 1772  |
| St. Abbs                              | 2312  |
| St. Ann's Head                        | 5608  |
| St. Anthony's Point                   | 2148  |
| St. Aubins Bay                        | 8108  |
| St. Bees Head                         | 4892  |
| St. Catherine Bay                     | 8160  |
| St. Catherine's Point                 | 1064  |
| St. Columb's                          | 7228  |
| St. David's Beacon                    | 2396  |
| St. Helen's Fort                      | 944   |
| St. Ives                              | 6296  |
| St. John's Point                      | 6756  |
| St. Kilda                             | 3958  |
| St. Margaret's Hope                   | 3148  |
| St. Margarethen/Scheelenkuhlen range. | 10574 |
| St. Martins Point                     | 8256  |
| St. Monance                           | 2556  |
| St. Patricks Stone                    | 4620  |
| St. Peter Port                        | 8232  |
| St. Peters                            | 2156  |
| St. Sampson Harbour                   | 8216  |
| St. Saviours Point                    | 6268  |
| St. Tudwal's West Island              | 5552  |
| ST. VAAST LA HOUGUE                   | 8452  |
| St. Valery en Caux                    | 8760  |
| St. Valery sur Somme                  | 8816  |
| Staddon Point                         | 153   |
| Stalbridge                            | 5328  |
| Stallingborough                       | 1864  |
| Stanger Head                          | 3104  |
| Steep Breast                          | 5160  |
| Stepper Point                         | 6256  |
| Stert Reach                           | 6188  |
| STONEHAVEN                            | 2684  |
| Stoney Field                          | 3832  |
| STORNOWAY                             | 3828  |
| Strandby                              | 10760 |
| Straw Island                          | 7480  |
| Stream Rock                           | 7316  |
| STROMA                                | 3036  |
| Stromness                             | 3208  |
| Strone                                | 4448  |
| Strumble Head                         | 5592  |
| Suderoogsand                          | 10604 |
| Sula Sgeir                            | 3572  |
| Sule Skerry                           | 3568  |
| Sumburgh Head                         | 3320  |
| SUNDERLAND                            | 2080  |
| Suther Ness                           | 3416  |
| Svaneholm                             | 10924 |
| Swanage                               | 548   |
| SWANSEA BAY                           | 5756  |
| Swilkie Point                         | 3032  |
| Swona                                 | 3076  |
| SYLT                                  | 10676 |
| Symbister Ness                        | 3412  |

## T

|                |      |
|----------------|------|
| Tab's Head     | 1740 |
| Tarbat Ness    | 2984 |
| Tarbert Island | 7540 |

|                          |       |
|--------------------------|-------|
| Tater-du                 | 32    |
| Tautenay                 | 8188  |
| TEIGNMOUTH               | 392   |
| Tenby                    | 5736  |
| Tentsmuir Point          | 2624  |
| TERNEUZEN SEA HARBOR     | 9256  |
| Terschelling (Brandaris) | 9980  |
| Texel                    | 9952  |
| The Carrick              | 4960  |
| The Heugh                | 2056  |
| The Narrows              | 256   |
| Thornbush                | 2928  |
| Thornumbald Clough       | 1928  |
| Thurso                   | 3052  |
| Thyboron                 | 10912 |
| Thyboron Tange           | 10932 |
| Tinga Skerry             | 3438  |
| Tiumpen Head             | 3824  |
| Tivoli                   | 6420  |
| Tor Ness                 | 3084  |
| TORBAY                   | 348   |
| Torquay                  | 380   |
| Torry                    | 2468  |
| Tossens                  | 10248 |
| Totland Bay              | 588   |
| Toward Point             | 4356  |
| TRALEE BAY               | 7584  |
| Trevose Head             | 6272  |
| Trial Bank               | 1720  |
| TRIEUX                   | 7872  |
| Trinity House            | 1508  |
| Trodday                  | 3960  |
| TROON HARBOR             | 4732  |
| TROUVILLE                | 8584  |
| Ture                     | 7140  |
| Turk Rocks               | 7308  |
| Tumberry                 | 4772  |
| Tuskar Rock              | 6540  |
| Twageos Point            | 3344  |
| Tynemouth                | 2104  |

## U

|                |      |
|----------------|------|
| Uig            | 3968 |
| Uiginish Point | 3972 |
| Ullapool Point | 3620 |
| Ungam Island   | 3516 |
| Ushenish       | 3900 |
| USK RIVER      | 5904 |
| Uyea Sound     | 3528 |

## V

|                       |       |
|-----------------------|-------|
| VALENTIA HARBOUR      | 7612  |
| Vallaquie Island      | 3897  |
| Vance                 | 7112  |
| VARNE LIGHTSHIP       | 1224  |
| Vatsetter             | 3520  |
| Ve Skerries           | 3556  |
| Vermerette            | 8204  |
| Victoria Harbor       | 4572  |
| VL-CENTER             | 9977  |
| VLIELAND              | 9968  |
| Vlissingen (Flushing) | 9168  |
| Vorhafen              | 10156 |
| Voslapp               | 10212 |
| Vuurduin              | 9968  |

## INDEX – LIGHTS

### W

|                             |       |                             |       |
|-----------------------------|-------|-----------------------------|-------|
| W. Scarweather .....        | 5810  | WESTON-SUPER-MARE .....     | 6164  |
| WALCHEREN .....             | 9140  | WEYMOUTH HARBOUR .....      | 540   |
| Walney Channel .....        | 5064  | WHALSAY .....               | 3412  |
| WALSOORDEN .....            | 9348  | Whidbey .....               | 140   |
| Warkworth .....             | 2232  | WHITBY .....                | 1984  |
| Warren Point .....          | 6732  | Whitecastle .....           | 7116  |
| Watchet Harbour .....       | 6196  | WHITEHAVEN .....            | 4880  |
| WATERFORD .....             | 6460  | Whitehills .....            | 2824  |
| Watnish Point .....         | 3964  | Whitehouse Point .....      | 108   |
| Wear Spit .....             | 5696  | WICK .....                  | 3000  |
| Wemyss Bay .....            | 4392  | WICKLOW HARBOR .....        | 6576  |
| Werkhaven .....             | 10042 | Willsboro .....             | 7160  |
| WESER RIVER .....           | 10304 | Wintershall .....           | 9979  |
| West Blockhouse Point ..... | 5640  | WITHAM RIVER ENTRANCE ..... | 1740  |
| WEST LOCH TARBERT .....     | 4184  | Withyhedge .....            | 160   |
| West Muck .....             | 2836  | Wolf Rock .....             | 28    |
| West Schouwen .....         | 9576  | Wootton .....               | 942   |
| West Terschelling .....     | 9984  | WORKINGTON .....            | 4864  |
| West Twin Island .....      | 6908  | Worthing .....              | 1100  |
| Westerheversand .....       | 10600 | Wremer Loch .....           | 10360 |
| Westkapelle .....           | 9140  | Wybelsum .....              | 10056 |
|                             |       | Wyk .....                   | 10648 |
|                             |       | Wylfa Power .....           | 5468  |

Wyon (Wine) Point ..... 7304

### Y

|                         |      |
|-------------------------|------|
| Yarmouth .....          | 628  |
| Yonderberry Point ..... | 292  |
| Youghal .....           | 6432 |
| Yport .....             | 8744 |

### Z

|                               |      |
|-------------------------------|------|
| Zanddijk .....                | 9876 |
| Zandvliet .....               | 9420 |
| ZEEBRUGGE .....               | 9068 |
| ZEEGAT VAN TERSCHELLING ..... | 9980 |
| ZEEGAT VAN TEXEL .....        | 9900 |
| Zoutelande .....              | 9152 |
| ZUID BEVELAND .....           | 9404 |
| Zuiderbinnenhoofd .....       | 9776 |
| Zuiderdam .....               | 9644 |
| Zuiderhoofd .....             | 9772 |

INDEX – RADIOBEACONS

|                         |     |  |                     |     |  |                     |     |  |
|-------------------------|-----|--|---------------------|-----|--|---------------------|-----|--|
| <b>B</b>                |     |  | <b>H</b>            |     |  | <b>P</b>            |     |  |
| Bremerhaven .....       | 520 |  | Hollenwettern ..... | 530 |  | Platform FC .....   | 570 |  |
| Brighton .....          | 10  |  |                     |     |  |                     |     |  |
| <b>C</b>                |     |  | <b>K</b>            |     |  | <b>W</b>            |     |  |
| Castle Breakwater ..... | 270 |  | Krautsand .....     | 540 |  | Wilhelmshaven ..... | 510 |  |
| Cloch Point .....       | 110 |  |                     |     |  |                     |     |  |

# INDEX – DIFFERENTIAL GPS STATIONS

## B

Blavands Huk. .... 10  
Butt Of Lewis Light. .... 60

## F

Flamborough Head Light. .... 90

## G

Girdle Ness Light. .... 80

## L

Lizard Point Light. .... 30

Loop Head Light. .... 130

## M

Mizen Head. .... 110

## N

Nash Point Light. .... 40  
North Foreland. .... 100

## P

Point Lynas Light. .... 50

## S

St. Catherine's Point Light. .... 20  
Sumburgh Head Light. .... 70

## T

Tory Island Light. .... 120

## W

Wormleighton DGPS Station. .... 25

# CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

| Inter.  | —     | U.S.  | Inter.  | —     | U.S.  | Inter.   | —     | U.S.  | Inter.   | —     | U.S.   |
|---------|-------|-------|---------|-------|-------|----------|-------|-------|----------|-------|--------|
| A0002   | ..... | 4     | A0168.2 | ..... | 253   | A0348    | ..... | 532   | A0632.3  | ..... | .874   |
| A0006   | ..... | 8     | A0170   | ..... | 256   | A0348.1  | ..... | 536   | A0633    | ..... | .884   |
| A0018   | ..... | 16    | A0172   | ..... | 260   | A0354    | ..... | 528   | A0637    | ..... | .888   |
| A0020   | ..... | 20    | A0173   | ..... | 264   | A0496    | ..... | 544   | A0637.1  | ..... | .892   |
| A0028   | ..... | 24    | A0174   | ..... | 268   | A0498    | ..... | 548   | A0640    | ..... | .896   |
| A0030   | ..... | 28    | A0176   | ..... | 272   | A0500    | ..... | 560   | A0645    | ..... | .912   |
| A0032   | ..... | 32    | A0178   | ..... | 274   | A0506    | ..... | 572   | A0646    | ..... | .916   |
| A0038   | ..... | 40    | A0182   | ..... | 276   | A0520.6  | ..... | 573   | A0652    | ..... | .936   |
| A0040   | ..... | 44    | A0184   | ..... | 280   | A0520.61 | ..... | 574   | A0654    | ..... | .924   |
| A0045   | ..... | 46    | A0185   | ..... | 282   | A0521    | ..... | 576   | A0664    | ..... | .942   |
| A0046   | ..... | 48    | A0186   | ..... | 284   | A0522    | ..... | 580   | A0665.8  | ..... | .942.1 |
| A0048   | ..... | 52    | A0186.2 | ..... | 286   | A0528    | ..... | 584   | A0684    | ..... | .1024  |
| A0051   | ..... | 56    | A0192   | ..... | 292   | A0534    | ..... | 588   | A0686    | ..... | .952   |
| A0056   | ..... | 60    | A0193   | ..... | 294   | A0538.1  | ..... | 596   | A0688    | ..... | .948   |
| A0060   | ..... | 64    | A0204   | ..... | 300   | A0541    | ..... | 606   | A0691    | ..... | .956   |
| A0062   | ..... | 68    | A0220   | ..... | 308   | A0542    | ..... | 600   | A0692.5  | ..... | .960   |
| A0064   | ..... | 72    | A0222   | ..... | 312   | A0542.1  | ..... | 604   | A0692.8  | ..... | .998   |
| A0065   | ..... | 80    | A0222.1 | ..... | 316   | A0543    | ..... | 608   | A0696    | ..... | .964   |
| A0066   | ..... | 84    | A0224   | ..... | 320   | A0544    | ..... | 607   | A0698    | ..... | .968   |
| A0068   | ..... | 88    | A0228   | ..... | 324   | A0552    | ..... | 612   | A0700    | ..... | .972   |
| A0069   | ..... | 92    | A0236   | ..... | 328   | A0553.2  | ..... | 616   | A0701    | ..... | .974   |
| A0070   | ..... | 96    | A0237   | ..... | 336   | A0555    | ..... | 624   | A0704    | ..... | .980   |
| A0078   | ..... | 100   | A0238   | ..... | 340   | A0558    | ..... | 636   | A0705    | ..... | .984   |
| A0080   | ..... | 102   | A0242   | ..... | 332   | A0560    | ..... | 640   | A0707.4  | ..... | .988   |
| A0080.2 | ..... | 102.5 | A0244   | ..... | 344   | A0560.5  | ..... | 641   | A0720    | ..... | .992   |
| A0082   | ..... | 104   | A0246   | ..... | 348   | A0562    | ..... | 628   | A0722.2  | ..... | .996   |
| A0084   | ..... | 108   | A0247.4 | ..... | 357   | A0562.1  | ..... | 632   | A0726    | ..... | 1000   |
| A0086   | ..... | 112   | A0247.6 | ..... | 358   | A0577    | ..... | 664   | A0730    | ..... | 1004   |
| A0090   | ..... | 118   | A0248   | ..... | 360   | A0580.6  | ..... | 666   | A0734    | ..... | 1020   |
| A0092   | ..... | 120   | A0249   | ..... | 364   | A0581.9  | ..... | 744   | A0750    | ..... | 1028   |
| A0093   | ..... | 124   | A0249.2 | ..... | 368   | A0582    | ..... | 748   | A0760    | ..... | .944   |
| A0094   | ..... | 128   | A0249.5 | ..... | 372   | A0582.1  | ..... | 752   | A0762    | ..... | .943   |
| A0098   | ..... | 132   | A0250   | ..... | 376   | A0586    | ..... | 740   | A0768    | ..... | 1052   |
| A0111.2 | ..... | 140   | A0252   | ..... | 388   | A0587    | ..... | 740.5 | A0770    | ..... | 1056   |
| A0112   | ..... | 144   | A0254   | ..... | 380   | A0587.1  | ..... | 740.7 | A0774    | ..... | 1064   |
| A0114   | ..... | 148   | A0256   | ..... | 384   | A0588    | ..... | 741   | A0780    | ..... | 1048   |
| A0114.5 | ..... | 150   | A0262   | ..... | 392   | A0590.14 | ..... | 688   | A0782    | ..... | 1036   |
| A0115.5 | ..... | 153   | A0262.1 | ..... | 396   | A0590.16 | ..... | 692   | A0782.08 | ..... | 1037   |
| A0117   | ..... | 160   | A0263   | ..... | 400   | A0590.22 | ..... | 698   | A0783.4  | ..... | 1044   |
| A0119   | ..... | 164   | A0263.5 | ..... | 402   | A0594    | ..... | 728   | A0783.5  | ..... | 1046   |
| A0119.1 | ..... | 168   | A0274   | ..... | 408   | A0596    | ..... | 732   | A0790    | ..... | 1066   |
| A0122   | ..... | 172   | A0278   | ..... | 418   | A0599    | ..... | 756   | A0794    | ..... | 1072   |
| A0124   | ..... | 176   | A0280   | ..... | 420   | A0601    | ..... | 760   | A0800    | ..... | 1076   |
| A0126   | ..... | 202.5 | A0284   | ..... | 424   | A0602    | ..... | 768   | A0800.5  | ..... | 1078   |
| A0131   | ..... | 182   | A0284.1 | ..... | 428   | A0604    | ..... | 772   | A0801    | ..... | 1080   |
| A0132   | ..... | 184   | A0288   | ..... | 432   | A0605    | ..... | 780   | A0801.1  | ..... | 1084   |
| A0134   | ..... | 180   | A0293   | ..... | 449   | A0605.5  | ..... | 776   | A0804    | ..... | 1088   |
| A0134.1 | ..... | 180.5 | A0294   | ..... | 448   | A0612    | ..... | 784   | A0808    | ..... | 1092   |
| A0136   | ..... | 192   | A0302   | ..... | 452   | A0612.2  | ..... | 788   | A0808.2  | ..... | 1096   |
| A0137   | ..... | 188   | A0310   | ..... | 456   | A0612.4  | ..... | 792   | A0809    | ..... | 1098   |
| A0138   | ..... | 196   | A0314   | ..... | 464   | A0614    | ..... | 800   | A0810    | ..... | 1100   |
| A0141   | ..... | 201   | A0320   | ..... | 468   | A0618    | ..... | 804   | A0812    | ..... | 1108   |
| A0141.1 | ..... | 202   | A0322   | ..... | 472   | A0618.2  | ..... | 808   | A0813    | ..... | 1104   |
| A0147   | ..... | 208   | A0324   | ..... | 517   | A0618.4  | ..... | 812   | A0814    | ..... | 1112   |
| A0148   | ..... | 209   | A0324.1 | ..... | 517.1 | A0620.5  | ..... | 816   | A0814.1  | ..... | 1116   |
| A0148.5 | ..... | 210   | A0326.2 | ..... | 508   | A0620.7  | ..... | 820   | A0822    | ..... | 1120   |
| A0157   | ..... | 224   | A0326.5 | ..... | 512   | A0621    | ..... | 828   | A0825    | ..... | 1122   |
| A0161   | ..... | 254   | A0327   | ..... | 492   | A0621.2  | ..... | 832   | A0825.2  | ..... | 1123   |
| A0162   | ..... | 255   | A0327.5 | ..... | 496   | A0626    | ..... | 844   | A0826    | ..... | 1121   |
| A0164   | ..... | 240   | A0327.6 | ..... | 500   | A0626.1  | ..... | 848   | A0830    | ..... | 1136   |
| A0166   | ..... | 244   | A0330   | ..... | 488   | A0628.6  | ..... | 854   | A0832    | ..... | 1132   |
| A0166.2 | ..... | 245   | A0332   | ..... | 484   | A0630    | ..... | 864   | A0839    | ..... | 1128   |
| A0166.4 | ..... | 246   | A0334   | ..... | 480   | A0630.1  | ..... | 868   | A0840    | ..... | 1140   |
| A0167   | ..... | 248   | A0339   | ..... | 520   | A0632    | ..... | 872   | A0843    | ..... | 1144   |
| A0168   | ..... | 252   | A0346   | ..... | 540   | A0632.2  | ..... | 873   | A0846    | ..... | 1148   |

# CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

| Inter.  | — | U.S.   | Inter.   | — | U.S.   | Inter.   | — | U.S.   | Inter.  | — | U.S.   |
|---------|---|--------|----------|---|--------|----------|---|--------|---------|---|--------|
| A0848   |   | 1150   | A1146    |   | 8908   | A1277    |   | 8676   | A1484.1 |   | 8328   |
| A0848.1 |   | 1153   | A1148    |   | 8912   | A1277.1  |   | 8680   | A1486   |   | 8352   |
| A0848.2 |   | 1154   | A1157    |   | 8913   | A1278    |   | 8684   | A1488   |   | 8364   |
| A0848.5 |   | 1152   | A1160    |   | 8900   | A1278.1  |   | 8688   | A1488.1 |   | 8368   |
| A0854   |   | 1176   | A1166    |   | 8896   | A1279    |   | 8692   | A1490   |   | 8400   |
| A0856   |   | 1172   | A1168    |   | 8856   | A1279.1  |   | 8696   | A1491   |   | 8392   |
| A0858   |   | 1164   | A1170    |   | 8860   | A1280.7  |   | 8702   | A1492   |   | 8396   |
| A0858.1 |   | 1168   | A1172    |   | 8864   | A1282    |   | 8592   | A1493   |   | 8398   |
| A0864   |   | 1216   | A1172.1  |   | 8868   | A1282.2  |   | 8588   | A1493.1 |   | 8398.1 |
| A0864.5 |   | 1212   | A1174    |   | 8872   | A1283    |   | 8600   | A1495   |   | 8372   |
| A0866   |   | 1192   | A1175    |   | 8876   | A1283.1  |   | 8604   | A1496   |   | 8380   |
| A0866.3 |   | 1200   | A1178    |   | 8892   | A1284    |   | 8584   | A1498   |   | 8376   |
| A0866.5 |   | 1204   | A1180    |   | 8888   | A1285    |   | 8596   | A1498.5 |   | 8384   |
| A0866.7 |   | 1208   | A1182    |   | 8880   | A1286    |   | 8612   | A1499   |   | 8388   |
| A0867   |   | 1196   | A1182.1  |   | 8884   | A1289    |   | 8618   | A1499.5 |   | 8386   |
| A0876   |   | 1220   | A1190    |   | 8844   | A1290    |   | 8616   | A1508   |   | 8308   |
| A0892   |   | 1228   | A1194    |   | 8840   | A1296    |   | 8620   | A1512   |   | 8304   |
| A0896   |   | 1232   | A1196    |   | 8832   | A1377    |   | 8552   | A1513   |   | 8095   |
| A0897.5 |   | 1224   | A1202    |   | 8828   | A1378    |   | 8556   | A1514   |   | 8312   |
| A0898   |   | 1234   | A1208    |   | 8804   | A1379    |   | 8560   | A1520   |   | 8268   |
| A0898.2 |   | 1234.1 | A1210    |   | 8808   | A1381    |   | 8568   | A1532   |   | 8264   |
| A0900   |   | 1236   | A1211    |   | 8812   | A1381.1  |   | 8572   | A1536   |   | 8300   |
| A0902   |   | 1268   | A1214    |   | 8820   | A1390    |   | 8540   | A1537   |   | 8296   |
| A0906   |   | 1256   | A1215    |   | 8816   | A1391    |   | 8544   | A1538   |   | 8288   |
| A0912   |   | 1248   | A1216    |   | 8824   | A1396    |   | 8532   | A1538.1 |   | 8292   |
| A0914   |   | 1252   | A1220    |   | 8800   | A1400    |   | 8516   | A1538.5 |   | 8292.5 |
| A0915   |   | 1260   | A1222    |   | 8792   | A1400.1  |   | 8520   | A1539   |   | 8293   |
| A0924   |   | 1272   | A1224    |   | 8796   | A1403    |   | 8524   | A1544   |   | 8260   |
| A0926   |   | 1276   | A1226    |   | 8797   | A1404    |   | 8528   | A1545   |   | 8261   |
| A0928   |   | 1304   | A1228    |   | 8788   | A1406    |   | 8512   | A1545.5 |   | 8262   |
| A0929   |   | 1305   | A1230    |   | 8776   | A1408    |   | 8504   | A1546   |   | 8208   |
| A0935   |   | 1284   | A1232.1  |   | 8784   | A1409    |   | 8508   | A1546.4 |   | 8200   |
| A0936   |   | 1288   | A1233    |   | 8782   | A1410    |   | 8492   | A1546.6 |   | 8204   |
| A0950   |   | 1312   | A1234    |   | 8768   | A1411    |   | 8496   | A1546.7 |   | 8205   |
| A0957.1 |   | 1348   | A1238    |   | 8760   | A1411.1  |   | 8500   | A1548   |   | 8184   |
| A0958   |   | 1352   | A1239    |   | 8764   | A1412    |   | 8484   | A1548.5 |   | 8188   |
| A0958.1 |   | 1356   | A1244    |   | 8752   | A1418    |   | 8476   | A1550   |   | 8196   |
| A0959   |   | 1349   | A1245    |   | 8755   | A1418.1  |   | 8480   | A1552   |   | 8192   |
| A0959.5 |   | 1350   | A1246    |   | 8756   | A1424    |   | 8472   | A1554   |   | 8228   |
| A0964   |   | 1360   | A1247    |   | 8750   | A1428    |   | 8464   | A1557   |   | 8216   |
| A0966   |   | 1364   | A1248    |   | 8744   | A1428.1  |   | 8468   | A1558   |   | 8220   |
| A0984   |   | 1324   | A1248.1  |   | 8748   | A1434    |   | 8460   | A1558.1 |   | 8224   |
| A0992   |   | 1336   | A1250    |   | 8740   | A1436    |   | 8452   | A1559   |   | 8212   |
| A0994   |   | 8932   | A1250.2  |   | 8727   | A1438    |   | 8456   | A1560   |   | 8232   |
| A1114   |   | 8964   | A1250.21 |   | 8727.1 | A1442    |   | 8448   | A1560.1 |   | 8236   |
| A1114.9 |   | 8968   | A1250.8  |   | 8704   | A1444    |   | 8432   | A1562   |   | 8252   |
| A1115   |   | 8972   | A1251    |   | 8728   | A1444.1  |   | 8436   | A1567   |   | 8246   |
| A1115.1 |   | 8976   | A1251.2  |   | 8736   | A1448    |   | 8440   | A1567.2 |   | 8246.5 |
| A1116   |   | 8996   | A1251.4  |   | 8732   | A1450    |   | 8444   | A1569   |   | 8248   |
| A1118   |   | 8992   | A1251.6  |   | 8716   | A1454    |   | 8428   | A1569.1 |   | 8248.5 |
| A1120   |   | 8979   | A1251.62 |   | 8712   | A1458    |   | 8420   | A1570   |   | 8249   |
| A1120.1 |   | 8979.5 | A1251.7  |   | 8720   | A1458.1  |   | 8424   | A1574   |   | 8256   |
| A1121   |   | 8988   | A1251.8  |   | 8724   | A1462    |   | 8416   | A1580   |   | 8180   |
| A1122   |   | 8980   | A1251.84 |   | 8708   | A1463    |   | 8412   | A1584   |   | 8164   |
| A1123   |   | 8984   | A1256    |   | 8628   | A1466    |   | 8404   | A1585   |   | 8168   |
| A1126   |   | 8948   | A1260    |   | 8632   | A1466.1  |   | 8408   | A1585.1 |   | 8172   |
| A1126.1 |   | 8952   | A1260.1  |   | 8636   | A1470    |   | 8344   | A1586   |   | 8160   |
| A1127   |   | 8956   | A1262    |   | 8648   | A1471.5  |   | 8356.1 | A1588   |   | 8152   |
| A1127.4 |   | 8960   | A1264    |   | 8656   | A1471.51 |   | 8356   | A1594   |   | 8144   |
| A1127.6 |   | 8963   | A1266    |   | 8652   | A1472    |   | 8348   | A1594.1 |   | 8148   |
| A1129   |   | 8961   | A1274    |   | 8660   | A1476    |   | 8340   | A1598   |   | 8140   |
| A1129.2 |   | 8962   | A1274.4  |   | 8664   | A1478    |   | 8336   | A1604   |   | 8120   |
| A1132   |   | 8928   | A1274.6  |   | 8700   | A1480    |   | 8332   | A1604.1 |   | 8124   |
| A1132.2 |   | 8924   | A1276    |   | 8668   | A1482    |   | 8320   | A1606   |   | 8128   |
| A1144   |   | 8904   | A1276.1  |   | 8672   | A1484    |   | 8324   | A1609   |   | 8132   |

# CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

| Inter.   | — | U.S.   | Inter.   | — | U.S. | Inter.   | — | U.S.   | Inter.   | — | U.S.   |
|----------|---|--------|----------|---|------|----------|---|--------|----------|---|--------|
| A1609.1  |   | 8136   | A1746    |   | 7872 | A2208    |   | 1508   | A2484.4  |   | 1880   |
| A1614    |   | 8112   | A1748    |   | 7876 | A2213.3  |   | 1512.5 | A2484.6  |   | 1882   |
| A1614.2  |   | 8116   | A1748.1  |   | 7880 | A2213.35 |   | 1512.6 | A2487    |   | 1888   |
| A1616    |   | 8108   | A1752    |   | 7892 | A2213.5  |   | 1513   | A2489    |   | 1892   |
| A1620    |   | 8100   | A1752.1  |   | 7896 | A2214    |   | 1536   | A2491.5  |   | 1901   |
| A1621    |   | 8104   | A1758    |   | 7900 | A2217.4  |   | 1470   | A2491.6  |   | 1904   |
| A1622    |   | 8176   | A1760    |   | 7832 | A2217.42 |   | 1471   | A2496    |   | 1909   |
| A1632    |   | 8092   | A1762    |   | 7836 | A2222    |   | 1516   | A2496.4  |   | 1909.5 |
| A1638    |   | 8080   | A1762.1  |   | 7840 | A2222.5  |   | 1520   | A2496.6  |   | 1910   |
| A1640    |   | 8084   | A1768    |   | 7824 | A2222.6  |   | 1524   | A2496.8  |   | 1910.5 |
| A1641    |   | 8088   | A1770    |   | 7820 | A2223    |   | 1532   | A2498    |   | 1920   |
| A1644    |   | 8068   | A1774    |   | 7808 | A2265    |   | 1568   | A2499.6  |   | 1924   |
| A1644.1  |   | 8072   | A1774.1  |   | 7812 | A2265.2  |   | 1572   | A2506    |   | 1928   |
| A1646    |   | 8076   | A1780    |   | 7816 | A2265.3  |   | 1573   | A2508    |   | 1932   |
| A1648    |   | 8064   | A1782    |   | 7804 | A2265.35 |   | 1573.1 | A2515    |   | 1946   |
| A1649    |   | 8054   | A1784    |   | 7800 | A2272    |   | 1588   | A2515.1  |   | 1946.1 |
| A1650    |   | 8056   | A1786    |   | 7796 | A2273    |   | 1576   | A2518    |   | 1952   |
| A1651    |   | 8060   | A1790    |   | 7792 | A2273.3  |   | 1580   | A2518.5  |   | 1953   |
| A1654    |   | 8020   | A1791    |   | 7790 | A2274    |   | 1584   | A2520    |   | 1954   |
| A1655    |   | 8024   | A1792    |   | 7780 | A2280    |   | 1620   | A2520.1  |   | 1954.1 |
| A1656    |   | 8028   | A1794    |   | 7784 | A2284    |   | 1604   | A2530.2  |   | 1957   |
| A1660    |   | 8036   | A1794.1  |   | 7788 | A2286    |   | 1600   | A2578    |   | 1768   |
| A1662    |   | 8044   | A1796    |   | 7772 | A2288    |   | 1612   | A2580    |   | 1960   |
| A1664    |   | 8048   | A1796.1  |   | 7776 | A2290    |   | 1608   | A2582    |   | 1964   |
| A1666    |   | 8040   | A1799.9  |   | 7768 | A2290.8  |   | 1614   | A2586    |   | 1968   |
| A1668    |   | 8052   | A1800    |   | 7764 | A2292    |   | 1616   | A2588    |   | 1980   |
| A1670    |   | 8012   | A1800.1  |   | 7760 | A2304    |   | 1624   | A2590    |   | 1972   |
| A1672    |   | 8016   | A1804    |   | 7758 | A2308    |   | 1628   | A2592    |   | 1976   |
| A1673    |   | 8006   | A1805    |   | 7756 | A2318.2  |   | 1652   | A2596    |   | 1992   |
| A1673.1  |   | 8006.1 | A1808    |   | 7740 | A2320    |   | 1640   | A2598    |   | 1988   |
| A1674    |   | 7976   | A1810    |   | 7744 | A2324    |   | 1648   | A2599    |   | 1984   |
| A1675    |   | 7988   | A1812    |   | 7748 | A2325    |   | 1650   | A2616    |   | 2000   |
| A1676    |   | 7980   | A1812.1  |   | 7752 | A2336    |   | 1668   | A2616.1  |   | 2004   |
| A1676.1  |   | 7984   | A1816    |   | 7732 | A2342    |   | 1676   | A2620    |   | 2008   |
| A1680    |   | 7972   | A1818    |   | 7724 | A2344    |   | 1680   | A2620.1  |   | 2012   |
| A1682    |   | 8008   | A1818.1  |   | 7728 | A2346    |   | 1688   | A2626    |   | 2020   |
| A1686    |   | 8000   | A1820    |   | 7720 | A2351.5  |   | 1767   | A2627    |   | 2024   |
| A1686.1  |   | 8004   | A1822    |   | 7716 | A2352    |   | 1765   | A2627.1  |   | 2028   |
| A1695    |   | 7996   | A1826    |   | 7704 | A2379    |   | 1720   | A2634    |   | 2029   |
| A1697    |   | 7964   | A1826.1  |   | 7708 | A2390    |   | 1732   | A2636    |   | 2030   |
| A1698    |   | 7960   | A1831    |   | 7712 | A2391    |   | 1736   | A2636.2  |   | 2031   |
| A1701    |   | 7954   | A1836    |   | 7692 | A2392    |   | 1724   | A2644    |   | 2032   |
| A1702    |   | 7956   | A1838    |   | 7700 | A2394    |   | 1728   | A2657    |   | 2044   |
| A1703    |   | 7952   | A1956    |   | 1424 | A2397    |   | 1744   | A2663    |   | 2056   |
| A1704    |   | 7948   | A1971    |   | 1368 | A2398    |   | 1740   | A2664    |   | 2052   |
| A1708    |   | 7940   | A1972    |   | 1372 | A2400    |   | 1748   | A2664.85 |   | 2055   |
| A1710    |   | 7936   | A1976    |   | 1376 | A2400.1  |   | 1752   | A2666    |   | 2057   |
| A1712    |   | 7928   | A1977    |   | 1378 | A2421    |   | 1766   | A2667    |   | 2058   |
| A1713    |   | 7932   | A1979    |   | 1384 | A2425    |   | 1788   | A2667.2  |   | 2059   |
| A1713.55 |   | 7926   | A1996    |   | 1404 | A2426    |   | 1780   | A2667.4  |   | 2062   |
| A1714    |   | 7924   | A2009.7  |   | 1400 | A2427.2  |   | 1784   | A2667.6  |   | 2060   |
| A1716    |   | 7920   | A2170    |   | 1420 | A2440    |   | 1912   | A2667.8  |   | 2061   |
| A1720    |   | 7916   | A2172    |   | 1421 | A2440.1  |   | 1916   | A2669    |   | 2064   |
| A1722    |   | 7904   | A2184    |   | 1432 | A2450    |   | 1824   | A2674    |   | 2072   |
| A1724    |   | 7908   | A2184.1  |   | 1436 | A2452    |   | 1828   | A2675    |   | 2068   |
| A1724.1  |   | 7912   | A2187    |   | 1440 | A2454    |   | 1832   | A2676    |   | 2076   |
| A1726    |   | 7856   | A2192    |   | 1444 | A2456    |   | 1836   | A2681    |   | 2084   |
| A1730    |   | 7852   | A2194    |   | 1448 | A2460    |   | 1840   | A2682    |   | 2080   |
| A1734    |   | 7848   | A2196.1  |   | 1451 | A2472    |   | 1844   | A2684    |   | 2094   |
| A1738    |   | 7844   | A2203.2  |   | 1468 | A2474    |   | 1848   | A2686    |   | 2092   |
| A1740    |   | 7860   | A2204    |   | 1484 | A2479    |   | 1856   | A2690    |   | 2095   |
| A1742    |   | 7864   | A2204.15 |   | 1488 | A2481    |   | 1864   | A2692    |   | 2096   |
| A1744    |   | 7868   | A2204.2  |   | 1492 | A2483    |   | 1868   | A2700    |   | 2104   |
| A1745    |   | 7884   | A2204.62 |   | 1500 | A2484    |   | 1872   | A2702    |   | 2108   |
| A1745.4  |   | 7888   | A2206    |   | 1504 | A2484.2  |   | 1876   | A2702.5  |   | 2112   |

# CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

| Inter.   | —     | U.S.   | Inter.  | —     | U.S.   | Inter.  | —     | U.S. | Inter.   | —     | U.S. |
|----------|-------|--------|---------|-------|--------|---------|-------|------|----------|-------|------|
| A2708    | ..... | 2116   | A2916.9 | ..... | 2409.1 | A3212   | ..... | 2633 | A3449    | ..... | 2924 |
| A2724    | ..... | 2140   | A2917   | ..... | 2409.2 | A3212.1 | ..... | 2634 | A3454    | ..... | 2928 |
| A2726    | ..... | 2148   | A2917.1 | ..... | 2409   | A3216   | ..... | 2632 | A3457    | ..... | 2932 |
| A2728    | ..... | 2156   | A2918.2 | ..... | 2494   | A3220   | ..... | 2636 | A3460    | ..... | 2936 |
| A2744    | ..... | 2160   | A2918.4 | ..... | 2494.1 | A3222   | ..... | 2640 | A3492    | ..... | 2944 |
| A2744.1  | ..... | 2164   | A2918.5 | ..... | 2494.2 | A3222.1 | ..... | 2644 | A3493    | ..... | 2952 |
| A2754    | ..... | 2180   | A2918.6 | ..... | 2494.3 | A3223   | ..... | 2648 | A3493.2  | ..... | 2956 |
| A2760    | ..... | 2184   | A2918.7 | ..... | 2493.2 | A3223.1 | ..... | 2652 | A3493.3  | ..... | 2960 |
| A2762    | ..... | 2188   | A2918.8 | ..... | 2493.1 | A3226   | ..... | 2656 | A3498.2  | ..... | 2968 |
| A2763    | ..... | 2192   | A2918.9 | ..... | 2493   | A3226.1 | ..... | 2660 | A3498.4  | ..... | 2972 |
| A2764    | ..... | 2196   | A2919   | ..... | 2396   | A3228   | ..... | 2664 | A3499    | ..... | 2976 |
| A2766    | ..... | 2172   | A2923   | ..... | 2416.1 | A3228.1 | ..... | 2668 | A3499.2  | ..... | 2980 |
| A2766.1  | ..... | 2176   | A2925   | ..... | 2416   | A3229   | ..... | 2672 | A3503    | ..... | 2982 |
| A2770    | ..... | 2200   | A2925.9 | ..... | 2412   | A3230   | ..... | 2676 | A3506    | ..... | 2984 |
| A2770.1  | ..... | 2204   | A2929   | ..... | 2418   | A3238   | ..... | 2684 | A3508    | ..... | 2985 |
| A2775    | ..... | 2208   | A2934   | ..... | 2420   | A3240   | ..... | 2688 | A3521    | ..... | 2992 |
| A2775.2  | ..... | 2212   | A2935   | ..... | 2424.1 | A3240.1 | ..... | 2692 | A3522    | ..... | 2988 |
| A2775.5  | ..... | 2216   | A2936   | ..... | 2424   | A3246   | ..... | 2696 | A3527    | ..... | 3002 |
| A2776    | ..... | 2224   | A2937.4 | ..... | 2423   | A3250   | ..... | 2704 | A3528    | ..... | 3000 |
| A2778    | ..... | 2226   | A2937.8 | ..... | 2422   | A3252   | ..... | 2700 | A3534    | ..... | 3004 |
| A2780    | ..... | 2228   | A2938.3 | ..... | 2421   | A3253   | ..... | 2708 | A3534.1  | ..... | 3008 |
| A2784    | ..... | 2232   | A2940   | ..... | 2432   | A3254   | ..... | 2712 | A3544    | ..... | 3012 |
| A2785    | ..... | 2236   | A2942   | ..... | 2428   | A3256   | ..... | 2716 | A3558    | ..... | 3016 |
| A2802    | ..... | 2248   | A2945   | ..... | 2444   | A3258   | ..... | 2720 | A3562    | ..... | 3020 |
| A2804    | ..... | 2244   | A2947   | ..... | 2448   | A3258.1 | ..... | 2724 | A3568    | ..... | 3032 |
| A2810    | ..... | 2252   | A2949   | ..... | 2452   | A3264   | ..... | 2728 | A3570    | ..... | 3036 |
| A2812    | ..... | 2256   | A2949.1 | ..... | 2456   | A3274   | ..... | 2736 | A3574    | ..... | 3040 |
| A2814    | ..... | 2260   | A2951   | ..... | 2460   | A3280   | ..... | 2740 | A3580    | ..... | 3052 |
| A2816    | ..... | 2262   | A2951.5 | ..... | 2464   | A3282   | ..... | 2752 | A3582    | ..... | 3056 |
| A2816.5  | ..... | 2263   | A2954   | ..... | 2466   | A3282.1 | ..... | 2756 | A3582.1  | ..... | 3060 |
| A2818    | ..... | 2264   | A2956   | ..... | 2468   | A3284   | ..... | 2744 | A3583    | ..... | 3068 |
| A2819    | ..... | 2268   | A2960   | ..... | 2472   | A3286   | ..... | 2748 | A3583.5  | ..... | 3066 |
| A2820    | ..... | 2272   | A2962   | ..... | 2480   | A3304   | ..... | 2776 | A3584    | ..... | 3064 |
| A2822    | ..... | 2284   | A2964   | ..... | 2488   | A3308   | ..... | 2784 | A3586    | ..... | 3072 |
| A2822.1  | ..... | 2288   | A2978   | ..... | 2492   | A3312   | ..... | 2788 | A3600    | ..... | 3084 |
| A2823    | ..... | 2280   | A3026   | ..... | 2508   | A3312.2 | ..... | 2792 | A3602    | ..... | 3088 |
| A2824    | ..... | 2276   | A3028   | ..... | 2496   | A3314   | ..... | 2796 | A3604    | ..... | 3092 |
| A2834    | ..... | 2292   | A3030   | ..... | 2504   | A3316   | ..... | 2800 | A3606    | ..... | 3096 |
| A2834.1  | ..... | 2296   | A3032   | ..... | 2500   | A3316.1 | ..... | 2804 | A3607    | ..... | 3080 |
| A2840    | ..... | 2300   | A3036   | ..... | 2512   | A3332   | ..... | 2808 | A3607.5  | ..... | 3076 |
| A2840.1  | ..... | 2304   | A3050   | ..... | 2532   | A3348   | ..... | 2812 | A3608    | ..... | 3024 |
| A2841    | ..... | 2308   | A3052   | ..... | 2536   | A3350   | ..... | 2816 | A3608.5  | ..... | 3028 |
| A2846    | ..... | 2312   | A3054   | ..... | 2540   | A3350.1 | ..... | 2820 | A3610    | ..... | 3100 |
| A2846.1  | ..... | 2316   | A3060   | ..... | 2552   | A3364   | ..... | 2824 | A3610.2  | ..... | 3104 |
| A2850    | ..... | 2320   | A3064   | ..... | 2556   | A3368   | ..... | 2828 | A3610.4  | ..... | 3108 |
| A2852    | ..... | 2324   | A3066   | ..... | 2560   | A3368.1 | ..... | 2832 | A3610.6  | ..... | 3112 |
| A2856    | ..... | 2336   | A3068   | ..... | 2564   | A3391   | ..... | 2836 | A3610.8  | ..... | 3116 |
| A2856.1  | ..... | 2340   | A3070   | ..... | 2568   | A3392   | ..... | 2848 | A3610.9  | ..... | 3120 |
| A2860    | ..... | 2332   | A3070.1 | ..... | 2572   | A3394   | ..... | 2840 | A3610.92 | ..... | 3124 |
| A2864    | ..... | 2344   | A3073   | ..... | 2576   | A3396.1 | ..... | 2844 | A3610.94 | ..... | 3128 |
| A2866    | ..... | 2348   | A3073.2 | ..... | 2580   | A3408   | ..... | 2856 | A3610.96 | ..... | 3132 |
| A2868    | ..... | 2352   | A3078   | ..... | 2588   | A3416   | ..... | 2864 | A3611    | ..... | 3136 |
| A2872    | ..... | 2356   | A3080   | ..... | 2584   | A3418   | ..... | 2868 | A3611.2  | ..... | 3140 |
| A2874    | ..... | 2360   | A3082   | ..... | 2592   | A3418.1 | ..... | 2872 | A3612    | ..... | 3144 |
| A2878    | ..... | 2364   | A3082.1 | ..... | 2596   | A3424   | ..... | 2876 | A3612.5  | ..... | 3146 |
| A2884    | ..... | 2368   | A3090   | ..... | 2600   | A3426   | ..... | 2880 | A3614    | ..... | 3160 |
| A2887    | ..... | 2374   | A3100   | ..... | 2604   | A3428   | ..... | 2884 | A3615    | ..... | 3148 |
| A2904    | ..... | 2380   | A3100.1 | ..... | 2608   | A3434   | ..... | 2896 | A3616    | ..... | 3152 |
| A2912    | ..... | 2388   | A3102   | ..... | 2612   | A3436   | ..... | 2892 | A3616.1  | ..... | 3156 |
| A2915    | ..... | 2390   | A3104.5 | ..... | 2614   | A3440   | ..... | 2900 | A3626    | ..... | 3164 |
| A2915.1  | ..... | 2390.1 | A3107   | ..... | 2617   | A3442   | ..... | 2908 | A3632    | ..... | 3168 |
| A2915.4  | ..... | 2393   | A3108   | ..... | 2616   | A3444   | ..... | 2912 | A3635    | ..... | 3172 |
| A2915.41 | ..... | 2394   | A3129   | ..... | 2624   | A3446   | ..... | 2916 | A3636    | ..... | 3176 |
| A2916    | ..... | 2392   | A3129.5 | ..... | 2628   | A3447.7 | ..... | 2922 | A3640    | ..... | 3180 |
| A2916.5  | ..... | 2408   | A3142   | ..... | 2620   | A3448   | ..... | 2920 | A3640.1  | ..... | 3184 |



# CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

| Inter.  | —     | U.S.   | Inter.   | —     | U.S.   | Inter.   | —     | U.S.   | Inter.   | —     | U.S.   |
|---------|-------|--------|----------|-------|--------|----------|-------|--------|----------|-------|--------|
| A3641   | ..... | 3188   | A3795.7  | ..... | 3407   | A3868    | ..... | 3568   | A3968    | ..... | 3820   |
| A3642   | ..... | 3192   | A3796    | ..... | 3408   | A3869    | ..... | 3574   | A3972    | ..... | 3824   |
| A3644   | ..... | 3196   | A3802    | ..... | 3412   | A3870    | ..... | 3572   | A3976    | ..... | 3828   |
| A3644.1 | ..... | 3200   | A3803.8  | ..... | 3413   | A3874    | ..... | 3580   | A3977    | ..... | 3836   |
| A3650   | ..... | 3204   | A3804    | ..... | 3416   | A3880    | ..... | 3576   | A3978    | ..... | 3832   |
| A3654   | ..... | 3220   | A3804.2  | ..... | 3417   | A3880.6  | ..... | 3584   | A3979    | ..... | 3840   |
| A3656   | ..... | 3212   | A3805    | ..... | 3418   | A3881    | ..... | 3585   | A3980    | ..... | 3844   |
| A3656.1 | ..... | 3216   | A3807    | ..... | 3420   | A3881.3  | ..... | 3588   | A3981    | ..... | 3848   |
| A3662   | ..... | 3208   | A3810    | ..... | 3424   | A3881.4  | ..... | 3592   | A3984    | ..... | 3860   |
| A3676   | ..... | 3228   | A3811    | ..... | 3426   | A3881.5  | ..... | 3596   | A3986    | ..... | 3864   |
| A3680   | ..... | 3232   | A3812    | ..... | 3428   | A3881.7  | ..... | 3598   | A3990    | ..... | 3868   |
| A3684   | ..... | 3236   | A3812.5  | ..... | 3429   | A3882    | ..... | 3600   | A3992    | ..... | 3872   |
| A3685   | ..... | 3240   | A3812.8  | ..... | 3429.5 | A3882.7  | ..... | 3602   | A3993    | ..... | 3876   |
| A3688   | ..... | 3244   | A3813.1  | ..... | 3430   | A3883    | ..... | 3604   | A3994.25 | ..... | 3881   |
| A3688.5 | ..... | 3246   | A3813.5  | ..... | 3431   | A3883.2  | ..... | 3606   | A3995    | ..... | 3882   |
| A3693   | ..... | 3248   | A3814    | ..... | 3432   | A3883.7  | ..... | 3608   | A3995.6  | ..... | 3884   |
| A3694   | ..... | 3252   | A3815    | ..... | 3436   | A3885    | ..... | 3616   | A3995.8  | ..... | 3885   |
| A3700   | ..... | 3224   | A3815.3  | ..... | 3437   | A3885.5  | ..... | 3620   | A3996    | ..... | 3888   |
| A3706   | ..... | 3268   | A3815.6  | ..... | 3438   | A3886    | ..... | 3612   | A3996.4  | ..... | 3892   |
| A3708   | ..... | 3264   | A3816    | ..... | 3440   | A3886.2  | ..... | 3612.5 | A3996.6  | ..... | 3894   |
| A3715   | ..... | 3270   | A3817    | ..... | 3444   | A3887    | ..... | 3624   | A3997    | ..... | 3896   |
| A3716   | ..... | 3272   | A3817.5  | ..... | 3448   | A3887.5  | ..... | 3626   | A3998    | ..... | 3897   |
| A3718   | ..... | 3276   | A3818    | ..... | 3452   | A3888    | ..... | 3628   | A3999.2  | ..... | 3898   |
| A3722   | ..... | 3280   | A3819    | ..... | 3456   | A3888.2  | ..... | 3632   | A3999.21 | ..... | 3898.1 |
| A3724   | ..... | 3284   | A3820    | ..... | 3460   | A3888.3  | ..... | 3636   | A3999.5  | ..... | 3899   |
| A3728   | ..... | 3288   | A3820.5  | ..... | 3464   | A3900    | ..... | 3640   | A4000    | ..... | 3904   |
| A3729   | ..... | 3254   | A3821    | ..... | 3468   | A3902    | ..... | 3644   | A4000.1  | ..... | 3908   |
| A3734   | ..... | 3290   | A3822    | ..... | 3476   | A3903    | ..... | 3648   | A4004    | ..... | 3900   |
| A3736   | ..... | 3292   | A3822.1  | ..... | 3480   | A3904    | ..... | 3660   | A4008    | ..... | 3924   |
| A3737.2 | ..... | 3296   | A3822.29 | ..... | 3488   | A3905    | ..... | 3668   | A4009.5  | ..... | 3932   |
| A3737.4 | ..... | 3300   | A3822.3  | ..... | 3484   | A3905.3  | ..... | 3664   | A4010.1  | ..... | 3928   |
| A3738   | ..... | 3304   | A3822.31 | ..... | 3492   | A3905.35 | ..... | 3678   | A4011.5  | ..... | 3933   |
| A3740   | ..... | 3308   | A3822.5  | ..... | 3472   | A3905.4  | ..... | 3672   | A4011.51 | ..... | 3934   |
| A3750   | ..... | 3312   | A3822.6  | ..... | 3504   | A3905.6  | ..... | 3676   | A4011.7  | ..... | 3935   |
| A3753   | ..... | 3314   | A3822.61 | ..... | 3505   | A3905.8  | ..... | 3680   | A4012    | ..... | 3936   |
| A3756   | ..... | 3316   | A3822.8  | ..... | 3512   | A3906    | ..... | 3684   | A4012.5  | ..... | 3937   |
| A3766   | ..... | 3320   | A3823.1  | ..... | 3496   | A3906.2  | ..... | 3688   | A4019    | ..... | 3944   |
| A3767   | ..... | 3322   | A3823.3  | ..... | 3497   | A3906.4  | ..... | 3692   | A4019.1  | ..... | 3948   |
| A3772   | ..... | 3324   | A3823.32 | ..... | 3498   | A3906.6  | ..... | 3696   | A4020    | ..... | 3952   |
| A3774   | ..... | 3326   | A3823.34 | ..... | 3499   | A3907    | ..... | 3700   | A4020.3  | ..... | 3954   |
| A3776   | ..... | 3340   | A3823.6  | ..... | 3516   | A3908    | ..... | 3720   | A4020.5  | ..... | 3955   |
| A3776.5 | ..... | 3342   | A3823.64 | ..... | 3501   | A3909.2  | ..... | 3712   | A4028    | ..... | 3912   |
| A3778   | ..... | 3344   | A3823.7  | ..... | 3502   | A3909.6  | ..... | 3708   | A4030    | ..... | 3914   |
| A3779   | ..... | 3348   | A3823.8  | ..... | 3503   | A3910    | ..... | 3724   | A4032    | ..... | 3916   |
| A3780   | ..... | 3352   | A3824    | ..... | 3520   | A3910.2  | ..... | 3725   | A4036    | ..... | 3920   |
| A3781   | ..... | 3360   | A3828    | ..... | 3524   | A3916    | ..... | 3704   | A4047    | ..... | 3958   |
| A3782   | ..... | 3356   | A3829    | ..... | 3526   | A3920    | ..... | 3735   | A4047.1  | ..... | 3959   |
| A3783   | ..... | 3364   | A3830    | ..... | 3528   | A3925    | ..... | 3744   | A4050    | ..... | 3960   |
| A3783.4 | ..... | 3368   | A3830.4  | ..... | 3530.3 | A3926    | ..... | 3748   | A4052    | ..... | 3968   |
| A3784   | ..... | 3372   | A3830.5  | ..... | 3530.5 | A3927    | ..... | 3772   | A4056    | ..... | 3964   |
| A3786   | ..... | 3376   | A3830.85 | ..... | 3530   | A3927.5  | ..... | 3774   | A4058    | ..... | 3972   |
| A3787   | ..... | 3377   | A3832    | ..... | 3540   | A3928    | ..... | 3756   | A4060    | ..... | 3976   |
| A3787.1 | ..... | 3378   | A3834    | ..... | 3542   | A3928.2  | ..... | 3760   | A4064    | ..... | 3980   |
| A3787.2 | ..... | 3380   | A3838    | ..... | 3544   | A3928.4  | ..... | 3762   | A4068    | ..... | 3984   |
| A3787.4 | ..... | 3384   | A3840    | ..... | 3548   | A3930    | ..... | 3764   | A4069    | ..... | 3986   |
| A3787.6 | ..... | 3394   | A3844    | ..... | 3552   | A3930.2  | ..... | 3768   | A4074    | ..... | 3988   |
| A3787.7 | ..... | 3388   | A3844.5  | ..... | 3553   | A3934    | ..... | 3816   | A4076    | ..... | 3992   |
| A3787.8 | ..... | 3402   | A3844.9  | ..... | 3554.5 | A3938    | ..... | 3812   | A4080    | ..... | 4012   |
| A3788   | ..... | 3392   | A3845    | ..... | 3554   | A3940    | ..... | 3808   | A4082    | ..... | 4016   |
| A3790   | ..... | 3396   | A3845.5  | ..... | 3555   | A3942    | ..... | 3804   | A4084    | ..... | 4020   |
| A3793.5 | ..... | 3403   | A3847    | ..... | 3556   | A3944    | ..... | 3800   | A4087    | ..... | 4024   |
| A3794   | ..... | 3404   | A3850    | ..... | 3560   | A3948    | ..... | 3792   | A4092    | ..... | 4004   |
| A3795   | ..... | 3405   | A3854.7  | ..... | 3561   | A3952    | ..... | 3788   | A4093    | ..... | 4005   |
| A3795.5 | ..... | 3406   | A3858    | ..... | 3564   | A3956    | ..... | 3790   | A4093.1  | ..... | 4005.5 |
| A3795.6 | ..... | 3406.5 | A3860    | ..... | 3562   | A3960    | ..... | 3780   | A4096    | ..... | 3996   |

# CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

| Inter.  | —     | U.S. | Inter.   | —     | U.S.   | Inter.   | —     | U.S. | Inter.   | —     | U.S.   |
|---------|-------|------|----------|-------|--------|----------|-------|------|----------|-------|--------|
| A4098   | ..... | 4000 | A4268    | ..... | 4206   | A4413.72 | ..... | 4456 | A4568    | ..... | 4760   |
| A4102   | ..... | 4008 | A4272    | ..... | 4244   | A4414    | ..... | 4416 | A4574    | ..... | 4752   |
| A4107   | ..... | 4028 | A4274    | ..... | 4248   | A4420    | ..... | 4464 | A4574.1  | ..... | 4756   |
| A4109   | ..... | 4030 | A4276    | ..... | 4252   | A4421    | ..... | 4466 | A4580    | ..... | 4772   |
| A4112   | ..... | 4032 | A4279    | ..... | 4256   | A4421.2  | ..... | 4472 | A4582    | ..... | 4768   |
| A4122   | ..... | 4036 | A4279.1  | ..... | 4260   | A4422    | ..... | 4475 | A4586    | ..... | 4780   |
| A4124   | ..... | 4040 | A4282    | ..... | 4268   | A4422.1  | ..... | 4476 | A4588    | ..... | 4776   |
| A4125   | ..... | 4042 | A4284    | ..... | 4264   | A4422.5  | ..... | 4508 | A4588.4  | ..... | 4778   |
| A4125.3 | ..... | 4043 | A4290    | ..... | 4272   | A4423    | ..... | 4492 | A4592    | ..... | 4784   |
| A4126   | ..... | 4044 | A4291    | ..... | 4273   | A4423.5  | ..... | 4490 | A4594    | ..... | 4786   |
| A4127   | ..... | 4048 | A4296    | ..... | 4276   | A4425    | ..... | 4518 | A4604    | ..... | 4796   |
| A4127.1 | ..... | 4052 | A4297    | ..... | 4280   | A4425.5  | ..... | 4504 | A4607    | ..... | 4804   |
| A4132   | ..... | 4080 | A4297.5  | ..... | 4282   | A4426    | ..... | 4519 | A4607.1  | ..... | 4808   |
| A4132.4 | ..... | 4082 | A4298    | ..... | 4284   | A4426.5  | ..... | 4524 | A4608    | ..... | 4812   |
| A4133   | ..... | 4084 | A4299    | ..... | 4288   | A4427.4  | ..... | 4528 | A4610    | ..... | 4816   |
| A4140   | ..... | 4092 | A4304    | ..... | 4296   | A4427.45 | ..... | 4530 | A4620    | ..... | 4818   |
| A4150   | ..... | 4093 | A4308    | ..... | 4300   | A4427.5  | ..... | 4532 | A4620.1  | ..... | 4818.1 |
| A4150.2 | ..... | 4094 | A4310    | ..... | 4304   | A4427.6  | ..... | 4536 | A4622    | ..... | 4820   |
| A4151   | ..... | 4095 | A4314    | ..... | 4308   | A4427.9  | ..... | 4542 | A4624    | ..... | 4822   |
| A4160   | ..... | 4076 | A4326    | ..... | 4316   | A4428.6  | ..... | 4544 | A4624.1  | ..... | 4823   |
| A4164   | ..... | 4060 | A4330    | ..... | 4320   | A4428.8  | ..... | 4549 | A4624.2  | ..... | 4823.5 |
| A4165   | ..... | 4064 | A4332    | ..... | 4328   | A4438    | ..... | 4552 | A4630    | ..... | 4824   |
| A4170   | ..... | 4072 | A4336    | ..... | 4324   | A4440    | ..... | 4556 | A4633.99 | ..... | 4827   |
| A4172   | ..... | 4068 | A4336.3  | ..... | 4324.5 | A4442    | ..... | 4564 | A4634    | ..... | 4828   |
| A4174   | ..... | 4056 | A4344    | ..... | 4332   | A4442.1  | ..... | 4568 | A4640    | ..... | 4832   |
| A4174.5 | ..... | 4058 | A4346    | ..... | 4336   | A4444    | ..... | 4560 | A4670    | ..... | 4844   |
| A4175.4 | ..... | 4096 | A4346.5  | ..... | 4338   | A4458    | ..... | 4572 | A4671    | ..... | 4848   |
| A4176   | ..... | 4100 | A4348    | ..... | 4340   | A4470    | ..... | 4580 | A4672    | ..... | 4852   |
| A4178   | ..... | 4104 | A4350    | ..... | 4344   | A4472    | ..... | 4584 | A4672.6  | ..... | 4856   |
| A4179   | ..... | 4105 | A4352    | ..... | 4348   | A4476    | ..... | 4588 | A4676    | ..... | 4860   |
| A4180   | ..... | 4108 | A4355    | ..... | 4348.2 | A4478    | ..... | 4592 | A4677    | ..... | 4861   |
| A4183   | ..... | 4112 | A4355.2  | ..... | 4348.4 | A4484    | ..... | 4596 | A4688    | ..... | 4864   |
| A4186   | ..... | 4120 | A4358    | ..... | 4348.6 | A4486    | ..... | 4600 | A4692    | ..... | 4868   |
| A4190   | ..... | 4128 | A4358.2  | ..... | 4348.8 | A4488    | ..... | 4604 | A4692.1  | ..... | 4872   |
| A4192   | ..... | 4132 | A4359    | ..... | 4349   | A4490    | ..... | 4608 | A4698    | ..... | 4880   |
| A4196   | ..... | 4136 | A4359.2  | ..... | 4350   | A4494    | ..... | 4612 | A4700    | ..... | 4884   |
| A4200   | ..... | 4140 | A4360    | ..... | 4352   | A4496    | ..... | 4616 | A4702    | ..... | 4888   |
| A4202   | ..... | 4144 | A4361    | ..... | 4354   | A4498    | ..... | 4620 | A4710    | ..... | 4892   |
| A4202.1 | ..... | 4148 | A4362    | ..... | 4356   | A4501    | ..... | 4628 | A4720    | ..... | 4896   |
| A4205   | ..... | 4150 | A4370    | ..... | 4364   | A4504    | ..... | 4636 | A4730    | ..... | 4928   |
| A4206   | ..... | 4151 | A4374    | ..... | 4372   | A4506    | ..... | 4640 | A4732    | ..... | 4932   |
| A4208   | ..... | 4152 | A4374.2  | ..... | 4376   | A4508    | ..... | 4648 | A4734    | ..... | 4924   |
| A4212   | ..... | 4156 | A4392    | ..... | 4392   | A4510    | ..... | 4644 | A4740    | ..... | 4936   |
| A4214   | ..... | 4160 | A4398    | ..... | 4380   | A4511    | ..... | 4652 | A4740.1  | ..... | 4940   |
| A4218   | ..... | 4164 | A4400.1  | ..... | 4384   | A4511.2  | ..... | 4654 | A4744    | ..... | 4944   |
| A4226   | ..... | 4168 | A4400.2  | ..... | 4388   | A4512    | ..... | 4656 | A4745    | ..... | 4952   |
| A4230   | ..... | 4172 | A4404    | ..... | 4404   | A4513    | ..... | 4660 | A4748    | ..... | 4956   |
| A4230.6 | ..... | 4176 | A4405    | ..... | 4396   | A4516    | ..... | 4672 | A4752    | ..... | 4960   |
| A4232   | ..... | 4180 | A4406    | ..... | 4400   | A4519    | ..... | 4680 | A4754    | ..... | 4968   |
| A4236   | ..... | 4208 | A4408    | ..... | 4403   | A4520    | ..... | 4684 | A4756    | ..... | 4964   |
| A4237   | ..... | 4212 | A4409    | ..... | 4424   | A4521    | ..... | 4688 | A4760    | ..... | 4972   |
| A4238   | ..... | 4216 | A4410.3  | ..... | 4429   | A4527    | ..... | 4693 | A4760.5  | ..... | 4980   |
| A4240   | ..... | 4220 | A4410.32 | ..... | 4430   | A4527.2  | ..... | 4694 | A4761    | ..... | 4976   |
| A4242   | ..... | 4224 | A4411    | ..... | 4428   | A4527.4  | ..... | 4695 | A4762    | ..... | 4984   |
| A4248   | ..... | 4228 | A4411.4  | ..... | 4440   | A4527.6  | ..... | 4696 | A4764    | ..... | 4988   |
| A4252   | ..... | 4240 | A4411.6  | ..... | 4441   | A4532    | ..... | 4700 | A4770    | ..... | 4992   |
| A4254   | ..... | 4236 | A4411.61 | ..... | 4441.1 | A4536    | ..... | 4708 | A4784    | ..... | 5028   |
| A4256   | ..... | 4232 | A4411.8  | ..... | 4442   | A4538    | ..... | 4704 | A4785    | ..... | 5032   |
| A4259   | ..... | 4182 | A4412    | ..... | 4444   | A4546    | ..... | 4716 | A4786    | ..... | 5036   |
| A4260   | ..... | 4184 | A4412.1  | ..... | 4444.1 | A4548    | ..... | 4724 | A4796    | ..... | 5040   |
| A4262   | ..... | 4188 | A4412.7  | ..... | 4436   | A4548.1  | ..... | 4728 | A4798    | ..... | 5044   |
| A4263   | ..... | 4192 | A4412.71 | ..... | 4436.1 | A4554    | ..... | 4732 | A4799    | ..... | 5048   |
| A4264   | ..... | 4196 | A4412.8  | ..... | 4432   | A4558    | ..... | 4740 | A4820    | ..... | 5052   |
| A4265   | ..... | 4200 | A4413.6  | ..... | 4448   | A4562    | ..... | 4744 | A4821    | ..... | 5054   |
| A4266.4 | ..... | 4204 | A4413.7  | ..... | 4452   | A4566    | ..... | 4764 | A4822    | ..... | 5064   |

# CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

| Inter.   | — | U.S.   | Inter.   | — | U.S.       | Inter.   | — | U.S.       | Inter.   | — | U.S.   |
|----------|---|--------|----------|---|------------|----------|---|------------|----------|---|--------|
| A4822.1  |   | 5068   | A5125    |   | 5396       | A5307.1  |   | 5676       | A5470.2  |   | 5932   |
| A4823    |   | 5056   | A5127    |   | 5400       | A5308    |   | 5680       | A5472.5  |   | 5944   |
| A4824    |   | 5072   | A5132    |   | 5408       | A5310.2  |   | 5692       | A5473    |   | 5948   |
| A4824.1  |   | 5076   | A5138    |   | 5416       | A5311    |   | 5704       | A5474    |   | 5952   |
| A4825    |   | 5080   | A5140    |   | 5420       | A5311.1  |   | 5708       | A5474.2  |   | 5956   |
| A4825.1  |   | 5084   | A5146    |   | 5428       | A5311.2  |   | 5696       | A5478    |   | 5972   |
| A4833.2  |   | 5088   | A5155    |   | 5440       | A5311.21 |   | 5700       | A5480    |   | 6156   |
| A4840    |   | 5060   | A5156.5  |   | 5444       | A5313.6  |   | 5669       | A5484    |   | 6144   |
| A4847    |   | 5112   | A5157    |   | 5448       | A5313.61 |   | 5669.1     | A5486    |   | 6140   |
| A4852    |   | 5096   | A5157.1  |   | 5452, 5456 | A5316    |   | 5712       | A5489    |   | 5996   |
| A4852.1  |   | 5100   | A5160    |   | 5464       | A5316.1  |   | 5716       | A5489.1  |   | 6000   |
| A4860    |   | 5124   | A5164.4  |   | 5465       | A5317    |   | 5720       | A5490    |   | 6010   |
| A4862    |   | 5116   | A5164.5  |   | 5466       | A5317.2  |   | 5724       | A5490.1  |   | 6010.1 |
| A4862.1  |   | 5120   | A5166    |   | 5468       | A5319.5  |   | 5725       | A5490.2  |   | 6012   |
| A4863    |   | 5132   | A5168    |   | 5472       | A5319.6  |   | 5726       | A5490.4  |   | 6016   |
| A4863.3  |   | 5136   | A5174    |   | 5476       | A5322    |   | 5728       | A5490.6  |   | 6020   |
| A4864    |   | 5128   | A5174.5  |   | 5478       | A5328    |   | 5732       | A5490.61 |   | 6020.1 |
| A4876    |   | 5144   | A5178    |   | 5484       | A5336    |   | 5736       | A5492    |   | 6024   |
| A4892    |   | 5152   | A5181    |   | 5492       | A5338    |   | 5740       | A5492.21 |   | 6032   |
| A4892.1  |   | 5156   | A5182    |   | 5496       | A5342    |   | 5744       | A5494    |   | 6036   |
| A4893    |   | 5160   | A5184    |   | 5500       | A5356    |   | 5748       | A5494.1  |   | 6040   |
| A4896    |   | 5172   | A5186    |   | 5504       | A5358    |   | 5756       | A5497    |   | 6044   |
| A4900    |   | 5168   | A5198    |   | 5512       | A5360    |   | 5760       | A5500.9  |   | 6052   |
| A4902    |   | 5164   | A5204    |   | 5520       | A5364    |   | 5764       | A5501    |   | 6056   |
| A4918    |   | 5176   | A5205    |   | 5522       | A5367    |   | 5768, 5772 | A5504    |   | 6060   |
| A4920    |   | 5180   | A5210    |   | 5528       | A5367.1  |   | 5776       | A5505    |   | 6062   |
| A4922    |   | 5184   | A5212    |   | 5532       | A5369    |   | 5780       | A5505.1  |   | 6062.1 |
| A4927.6  |   | 5192   | A5213    |   | 5536       | A5370    |   | 5769       | A5507    |   | 6064   |
| A4940    |   | 5200   | A5214    |   | 5540       | A5370.2  |   | 5770       | A5508    |   | 6068   |
| A4952    |   | 5213   | A5220    |   | 5544       | A5373    |   | 5794       | A5511    |   | 6072   |
| A4952.2  |   | 5214   | A5234    |   | 5548       | A5374    |   | 5784       | A5512    |   | 6076   |
| A4952.4  |   | 5215   | A5238    |   | 5552       | A5376    |   | 5788       | A5513    |   | 6080   |
| A4952.6  |   | 5215.4 | A5246    |   | 5556       | A5377    |   | 5792       | A5514    |   | 6084   |
| A4954    |   | 5216   | A5254    |   | 5560       | A5381    |   | 5797       | A5515    |   | 6088   |
| A4956    |   | 5220   | A5256    |   | 5564       | A5389    |   | 5805       | A5516    |   | 6092   |
| A4958    |   | 5224   | A5257    |   | 5566       | A5390    |   | 5806       | A5518    |   | 6100   |
| A4972    |   | 5232   | A5257.2  |   | 5566.5     | A5391    |   | 5800       | A5519    |   | 6108   |
| A4974    |   | 5236   | A5258    |   | 5568       | A5391.1  |   | 5804       | A5520    |   | 6104   |
| A4975    |   | 5240   | A5258.6  |   | 5569.1     | A5394    |   | 5807       | A5521    |   | 6116   |
| A4977    |   | 5244   | A5262    |   | 5572       | A5395    |   | 5808       | A5522    |   | 6112   |
| A4978    |   | 5248   | A5264    |   | 5576       | A5395.2  |   | 5808.1     | A5523    |   | 6120   |
| A4978.2  |   | 5252   | A5266    |   | 5580       | A5395.3  |   | 5808.2     | A5525    |   | 6128   |
| A4979    |   | 5256   | A5266.1  |   | 5584       | A5395.4  |   | 5808.3     | A5526    |   | 6132   |
| A4979.2  |   | 5260   | A5270    |   | 5588       | A5395.6  |   | 5808.4     | A5535    |   | 5984   |
| A4980.7  |   | 5273   | A5274    |   | 5592       | A5395.8  |   | 5808.5     | A5536    |   | 5988   |
| A4981    |   | 5276   | A5276    |   | 5596       | A5402    |   | 5812       | A5536.1  |   | 5992   |
| A4983    |   | 5278   | A5278    |   | 5600       | A5406    |   | 5816       | A5541    |   | 5994   |
| A4985    |   | 5280   | A5282    |   | 5604       | A5406.6  |   | 5820       | A5566    |   | 6164   |
| A4994    |   | 5300   | A5284    |   | 5608       | A5407    |   | 5824       | A5570    |   | 6172   |
| A5020    |   | 5324   | A5285    |   | 5612       | A5410    |   | 5832       | A5572    |   | 6176   |
| A5024    |   | 5320   | A5286    |   | 5616       | A5411    |   | 5856       | A5572.1  |   | 6180   |
| A5026    |   | 5328   | A5286.1  |   | 5624       | A5412    |   | 5836       | A5573    |   | 6188   |
| A5058    |   | 5340   | A5286.2  |   | 5628       | A5413    |   | 5844       | A5582    |   | 6168   |
| A5063    |   | 5336   | A5286.3  |   | 5620       | A5419    |   | 5840       | A5584    |   | 6196   |
| A5091    |   | 5344   | A5287    |   | 5632       | A5426    |   | 5860       | A5584.2  |   | 6200   |
| A5092    |   | 5348   | A5287.1  |   | 5636       | A5428    |   | 5864       | A5586    |   | 6204   |
| A5093    |   | 5352   | A5291    |   | 5640       | A5430    |   | 5900       | A5586.4  |   | 6204.5 |
| A5102    |   | 5356   | A5292    |   | 5644       | A5440    |   | 5876       | A5590    |   | 6208   |
| A5104    |   | 5364   | A5292.39 |   | 5648       | A5440.3  |   | 5880       | A5592    |   | 6212   |
| A5115    |   | 5380   | A5292.4  |   | 5652       | A5454    |   | 5904       | A5593    |   | 6216   |
| A5116    |   | 5384   | A5292.41 |   | 5656       | A5460    |   | 5908       | A5594    |   | 6220   |
| A5116.05 |   | 5384.1 | A5294.9  |   | 5660       | A5462    |   | 5912       | A5596    |   | 6224   |
| A5118    |   | 5388   | A5295    |   | 5664       | A5467    |   | 5920       | A5600    |   | 6228   |
| A5119    |   | 5392   | A5295.1  |   | 5668       | A5467.1  |   | 5921       | A5610    |   | 6232   |
| A5120    |   | 5395   | A5307    |   | 5672       | A5470    |   | 5928       | A5610.1  |   | 6236   |

# CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

| Inter.  | —     | U.S. | Inter.  | —     | U.S. | Inter.  | —     | U.S. | Inter.   | —     | U.S.    |
|---------|-------|------|---------|-------|------|---------|-------|------|----------|-------|---------|
| A5612   | ..... | 6240 | A5847   | ..... | 6560 | A6002   | ..... | 6824 | A6110    | ..... | 7128    |
| A5615   | ..... | 6242 | A5848   | ..... | 6564 | A6003   | ..... | 6828 | A6112    | ..... | 7132    |
| A5616   | ..... | 6244 | A5849   | ..... | 6568 | A6004   | ..... | 6832 | A6114    | ..... | 7140    |
| A5618   | ..... | 6248 | A5850   | ..... | 6572 | A6005   | ..... | 6836 | A6116    | ..... | 7144    |
| A5621   | ..... | 6252 | A5854   | ..... | 6576 | A6006   | ..... | 6840 | A6117    | ..... | 7148    |
| A5630   | ..... | 6256 | A5856   | ..... | 6580 | A6007   | ..... | 6844 | A6120    | ..... | 7156    |
| A5631   | ..... | 6268 | A5858   | ..... | 6584 | A6011   | ..... | 6856 | A6122    | ..... | 7160    |
| A5634   | ..... | 6260 | A5865   | ..... | 6592 | A6014.7 | ..... | 6872 | A6124    | ..... | 7152    |
| A5636   | ..... | 6264 | A5868   | ..... | 6596 | A6015   | ..... | 6874 | A6127    | ..... | 7168    |
| A5638   | ..... | 6272 | A5872   | ..... | 6600 | A6015.1 | ..... | 6876 | A6128    | ..... | 7172    |
| A5642   | ..... | 6276 | A5874   | ..... | 6604 | A6017   | ..... | 6888 | A6130    | ..... | 7164    |
| A5644   | ..... | 6280 | A5876   | ..... | 6608 | A6019   | ..... | 6892 | A6130.2  | ..... | 7188    |
| A5655   | ..... | 6284 | A5877   | ..... | 6612 | A6019.3 | ..... | 6896 | A6130.3  | ..... | 7192    |
| A5658.1 | ..... | 6292 | A5878   | ..... | 6616 | A6019.6 | ..... | 6900 | A6130.5  | ..... | 7193    |
| A5658.5 | ..... | 6294 | A5882   | ..... | 6620 | A6019.8 | ..... | 6904 | A6130.6  | ..... | 7193.2  |
| A5665   | ..... | 6296 | A5884   | ..... | 6628 | A6020   | ..... | 6908 | A6130.8  | ..... | 7193.4  |
| A5666   | ..... | 6300 | A5886   | ..... | 6632 | A6020.6 | ..... | 6916 | A6131    | ..... | 7176    |
| A5670   | ..... | 6304 | A5886.4 | ..... | 6626 | A6021   | ..... | 6920 | A6134.5  | ..... | 7180    |
| A5702   | ..... | 6308 | A5887.9 | ..... | 6625 | A6021.6 | ..... | 6928 | A6136    | ..... | 7196    |
| A5703   | ..... | 6312 | A5889   | ..... | 6622 | A6021.8 | ..... | 6932 | A6138    | ..... | 7200    |
| A5704   | ..... | 6316 | A5894   | ..... | 6648 | A6022   | ..... | 6936 | A6140    | ..... | 7208    |
| A5704.1 | ..... | 6320 | A5898   | ..... | 6652 | A6022.2 | ..... | 6948 | A6142    | ..... | 7204    |
| A5705   | ..... | 6324 | A590.11 | ..... | 685  | A6022.4 | ..... | 6952 | A6152    | ..... | 7216    |
| A5707   | ..... | 6328 | A5900   | ..... | 6656 | A6022.6 | ..... | 6960 | A6152.1  | ..... | 7220    |
| A5708   | ..... | 6332 | A5900.3 | ..... | 6657 | A6023   | ..... | 6956 | A6158    | ..... | 7224    |
| A5709   | ..... | 6336 | A5900.5 | ..... | 6658 | A6024   | ..... | 6964 | A6162    | ..... | 7228    |
| A5710   | ..... | 6340 | A5903.6 | ..... | 6662 | A6025   | ..... | 6968 | A6163    | ..... | 7232    |
| A5712   | ..... | 6344 | A5904   | ..... | 6664 | A6028   | ..... | 6972 | A6164    | ..... | 7236    |
| A5718   | ..... | 6356 | A5906   | ..... | 6668 | A6031   | ..... | 6984 | A6168    | ..... | 7240    |
| A5722   | ..... | 6360 | A5908   | ..... | 6672 | A6033   | ..... | 7000 | A6172    | ..... | 7244    |
| A5722.1 | ..... | 6364 | A5909   | ..... | 6673 | A6033.1 | ..... | 7004 | A6174    | ..... | 7248    |
| A5728   | ..... | 6368 | A5910.5 | ..... | 6682 | A6033.4 | ..... | 6988 | A6176    | ..... | 7252    |
| A5728.1 | ..... | 6372 | A5912   | ..... | 6692 | A6034   | ..... | 6996 | A6180    | ..... | 7256    |
| A5732   | ..... | 6376 | A5920   | ..... | 6696 | A6035   | ..... | 6992 | A6186    | ..... | 7260    |
| A5736   | ..... | 6380 | A5920.4 | ..... | 6700 | A6037   | ..... | 7008 | A6190    | ..... | 7264    |
| A5748   | ..... | 6392 | A5928   | ..... | 6704 | A6037.2 | ..... | 7012 | A6196    | ..... | 7268    |
| A5749   | ..... | 6396 | A5932   | ..... | 6708 | A6042   | ..... | 7016 | A6198.5  | ..... | 7272    |
| A5757   | ..... | 6406 | A5934   | ..... | 6712 | A6043   | ..... | 7017 | A6198.51 | ..... | 7276    |
| A5758   | ..... | 6404 | A5938   | ..... | 6714 | A6043.2 | ..... | 7018 | A6200    | ..... | 7280    |
| A5763   | ..... | 6417 | A5944   | ..... | 6720 | A6044   | ..... | 7020 | A6203    | ..... | 7284    |
| A5764   | ..... | 6420 | A5946   | ..... | 6724 | A6060   | ..... | 7028 | A6203.5  | ..... | 7285    |
| A5774   | ..... | 6428 | A5946.1 | ..... | 6728 | A6062   | ..... | 7032 | A6203.51 | ..... | 7285.1  |
| A5776   | ..... | 6432 | A5948   | ..... | 6732 | A6064   | ..... | 7036 | A6204    | ..... | 7288    |
| A5778   | ..... | 6436 | A5949   | ..... | 6736 | A6065   | ..... | 7038 | A6204.2  | ..... | 7288.4  |
| A5782   | ..... | 6440 | A5952   | ..... | 6740 | A6071   | ..... | 7040 | A6204.21 | ..... | 7288.8  |
| A5798   | ..... | 6460 | A5953   | ..... | 6752 | A6072   | ..... | 7044 | A6204.4  | ..... | 7289    |
| A5800   | ..... | 6464 | A5958   | ..... | 6756 | A6073   | ..... | 7056 | A6206    | ..... | 7292    |
| A5801   | ..... | 6468 | A5962   | ..... | 6760 | A6074   | ..... | 7064 | A6208    | ..... | 7296    |
| A5802   | ..... | 6472 | A5962.4 | ..... | 6764 | A6074.1 | ..... | 7068 | A6211.2  | ..... | 7298    |
| A5806   | ..... | 6476 | A5963.3 | ..... | 6768 | A6075   | ..... | 7072 | A6213.6  | ..... | 7300    |
| A5808   | ..... | 6484 | A5970   | ..... | 6776 | A6076   | ..... | 7060 | A6213.8  | ..... | 7304    |
| A5810   | ..... | 6488 | A5973   | ..... | 6784 | A6076.5 | ..... | 7062 | A6214    | ..... | 7308    |
| A5812   | ..... | 6492 | A5974   | ..... | 6788 | A6084   | ..... | 7076 | A6214.2  | ..... | 7312    |
| A5814   | ..... | 6496 | A5976   | ..... | 6792 | A6088   | ..... | 7080 | A6214.4  | ..... | 7316    |
| A5814.1 | ..... | 6500 | A5980   | ..... | 6794 | A6092   | ..... | 7084 | A6214.6  | ..... | 7320    |
| A5818   | ..... | 6504 | A5986   | ..... | 6804 | A6095   | ..... | 7088 | A6214.8  | ..... | 7324    |
| A5820   | ..... | 6508 | A5986.4 | ..... | 6808 | A6096   | ..... | 7092 | A6214.9  | ..... | 7297    |
| A5822   | ..... | 6512 | A5987   | ..... | 6800 | A6098   | ..... | 7096 | A6214.91 | ..... | 7297.1  |
| A5826   | ..... | 6516 | A5987.5 | ..... | 6801 | A6100   | ..... | 7100 | A6214.95 | ..... | 7297.5  |
| A5828   | ..... | 6520 | A5988   | ..... | 6796 | A6101   | ..... | 7104 | A6214.96 | ..... | 7297.51 |
| A5830   | ..... | 6524 | A5992   | ..... | 6812 | A6104   | ..... | 7108 | A6215    | ..... | 7328    |
| A5836   | ..... | 6532 | A5993   | ..... | 6816 | A6105   | ..... | 7112 | A6216    | ..... | 7332    |
| A5837   | ..... | 6536 | A5999   | ..... | 6819 | A6106   | ..... | 7116 | A6222    | ..... | 7336    |
| A5838   | ..... | 6540 | A6000   | ..... | 6820 | A6107   | ..... | 7120 | A6224    | ..... | 7340    |
| A5842   | ..... | 6544 | A6001   | ..... | 6822 | A6108   | ..... | 7124 | A6228    | ..... | 7352    |

# CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

| Inter.   | —     | U.S. | Inter.   | —     | U.S.    | Inter.   | —     | U.S.   | Inter.    | —     | U.S.    |
|----------|-------|------|----------|-------|---------|----------|-------|--------|-----------|-------|---------|
| A6232    | ..... | 7360 | A6416    | ..... | 7612    | B0128    | ..... | 9088   | B0338     | ..... | 9412    |
| A6236    | ..... | 7364 | A6417    | ..... | 7616    | B0128.1  | ..... | 9092   | B0346     | ..... | 9420    |
| A6244    | ..... | 7368 | A6417.5  | ..... | 7622    | B0131.5  | ..... | 9093   | B0346.1   | ..... | 9422    |
| A6244.1  | ..... | 7372 | A6422    | ..... | 7624    | B0145    | ..... | 9000   | B0346.11  | ..... | 9422.1  |
| A6257    | ..... | 7362 | A6426    | ..... | 7628    | B0147    | ..... | 9002   | B0346.12  | ..... | 9424    |
| A6260    | ..... | 7376 | A6426.1  | ..... | 7632    | B0157    | ..... | 9110   | B0346.2   | ..... | 9426    |
| A6265    | ..... | 7378 | A6430    | ..... | 7636    | B0166.1  | ..... | 9118   | B0356     | ..... | 9456    |
| A6266    | ..... | 7380 | A6432    | ..... | 7680    | B0173.9  | ..... | 9140   | B0356.1   | ..... | 9460    |
| A6268    | ..... | 7384 | A6434    | ..... | 7640    | B0174    | ..... | 9144   | B0364     | ..... | 9464    |
| A6270    | ..... | 7388 | A6436    | ..... | 7644    | B0174.1  | ..... | 9152   | B0368     | ..... | 9472    |
| A6272    | ..... | 7392 | A6438    | ..... | 7648    | B0176    | ..... | 9148   | B0368.1   | ..... | 9476    |
| A6272.5  | ..... | 7396 | A6438.5  | ..... | 7650    | B0184    | ..... | 9156   | B0372     | ..... | 9484    |
| A6273.3  | ..... | 7400 | A6439    | ..... | 7652    | B0184.1  | ..... | 9160   | B0372.1   | ..... | 9488    |
| A6273.8  | ..... | 7402 | A6439.1  | ..... | 7656    | B0188    | ..... | 9164   | B0372.5   | ..... | 9461.1  |
| A6274    | ..... | 7404 | A6440    | ..... | 7658    | B0192    | ..... | 9172   | B0372.501 | ..... | 9461.15 |
| A6275.3  | ..... | 7420 | A6441    | ..... | 7659    | B0192.1  | ..... | 9176   | B0372.6   | ..... | 9461.2  |
| A6276    | ..... | 7416 | A6442    | ..... | 7660    | B0200    | ..... | 9168   | B0372.601 | ..... | 9461.25 |
| A6277.5  | ..... | 7424 | A6445    | ..... | 7672    | B0202    | ..... | 9180   | B0376     | ..... | 9492    |
| A6278    | ..... | 7428 | A6445.2  | ..... | 7676    | B0202.2  | ..... | 9184   | B0378     | ..... | 9496    |
| A6279    | ..... | 7408 | A6445.7  | ..... | 7678    | B0203    | ..... | 9188   | B0378.1   | ..... | 9500    |
| A6279.1  | ..... | 7412 | A6448    | ..... | 7684    | B0204    | ..... | 9192   | B0380     | ..... | 9504    |
| A6280    | ..... | 7432 | A6450    | ..... | 7688    | B0205    | ..... | 9196   | B0380.1   | ..... | 9508    |
| A6282    | ..... | 7436 | A7560.1  | ..... | 1764    | B0206    | ..... | 9200   | B0382     | ..... | 9512    |
| A6284    | ..... | 7440 | A7562.5  | ..... | 1769    | B0206.1  | ..... | 9204   | B0384     | ..... | 9516    |
| A6288    | ..... | 7444 | A7576.97 | ..... | 1771    | B0206.21 | ..... | 9212   | B0384.1   | ..... | 9520    |
| A6290    | ..... | 7448 | A7581.85 | ..... | 9979    | B0206.5  | ..... | 9214   | B0387.9   | ..... | 9528    |
| A6292    | ..... | 7452 | A7682    | ..... | 10013   | B0206.7  | ..... | 9215   | B0388     | ..... | 9532    |
| A6296    | ..... | 7472 | A7682.5  | ..... | 10013.1 | B0208    | ..... | 9124   | B0388.1   | ..... | 9536    |
| A6298    | ..... | 7480 | A7784    | ..... | 10717.1 | B0209    | ..... | 9128   | B0392     | ..... | 9540    |
| A6299    | ..... | 7484 | A7880    | ..... | 11035   | B0212    | ..... | 9132   | B0392.1   | ..... | 9544    |
| A6299.1  | ..... | 7488 | A8235    | ..... | 3074    | B0214    | ..... | 9136   | B0408     | ..... | 9584    |
| A6300    | ..... | 7492 | B0074    | ..... | 9008    | B0233    | ..... | 9232   | B0500     | ..... | 9576    |
| A6301    | ..... | 7494 | B0075    | ..... | 9016    | B0233.1  | ..... | 9236   | B0506     | ..... | 9588    |
| A6302    | ..... | 7456 | B0076    | ..... | 9012    | B0233.4  | ..... | 9240   | B0514     | ..... | 9592    |
| A6304    | ..... | 7460 | B0092    | ..... | 9020    | B0234    | ..... | 9242   | B0515     | ..... | 9596    |
| A6304.5  | ..... | 7462 | B0094    | ..... | 9022    | B0234.2  | ..... | 9242.5 | B0518     | ..... | 9600    |
| A6305    | ..... | 7464 | B0098    | ..... | 9028    | B0236    | ..... | 9248   | B0536     | ..... | 9624    |
| A6305.1  | ..... | 7468 | B0107    | ..... | 9037    | B0236.1  | ..... | 9252   | B0540     | ..... | 9628    |
| A6308    | ..... | 7504 | B0107.1  | ..... | 9037.1  | B0244    | ..... | 9280   | B0542     | ..... | 9632    |
| A6317    | ..... | 7508 | B0112    | ..... | 9044    | B0245    | ..... | 9272   | B0630     | ..... | 9636    |
| A6318    | ..... | 7512 | B0113    | ..... | 9056    | B0246    | ..... | 9276   | B0633.7   | ..... | 9703.1  |
| A6320    | ..... | 7516 | B0113.1  | ..... | 9060    | B0250    | ..... | 9256   | B0633.71  | ..... | 9703.2  |
| A6322    | ..... | 7524 | B0113.4  | ..... | 9052    | B0250.1  | ..... | 9260   | B0634     | ..... | 9648    |
| A6332    | ..... | 7500 | B0114    | ..... | 9048    | B0251    | ..... | 9264   | B0635     | ..... | 9644    |
| A6334    | ..... | 7496 | B0116    | ..... | 9064    | B0252    | ..... | 9268   | B0637     | ..... | 9656    |
| A6338    | ..... | 7528 | B0119    | ..... | 9067    | B0256    | ..... | 9284   | B0637.1   | ..... | 9660    |
| A6340.5  | ..... | 7533 | B0119.5  | ..... | 9067.3  | B0258    | ..... | 9288   | B0638     | ..... | 9664    |
| A6340.51 | ..... | 7534 | B0119.8  | ..... | 9067.5  | B0262    | ..... | 9292   | B0638.1   | ..... | 9668    |
| A6342    | ..... | 7536 | B0120    | ..... | 9067.6  | B0262.1  | ..... | 9296   | B0642     | ..... | 9672    |
| A6343    | ..... | 7540 | B0122    | ..... | 9076    | B0268    | ..... | 9300   | B0642.1   | ..... | 9676    |
| A6344.6  | ..... | 7544 | B0123    | ..... | 9074    | B0282    | ..... | 9320   | B0646     | ..... | 9684    |
| A6344.61 | ..... | 7548 | B0123.2  | ..... | 9073    | B0282.1  | ..... | 9324   | B0646.1   | ..... | 9688    |
| A6345    | ..... | 7552 | B0124    | ..... | 9068    | B0286    | ..... | 9328   | B0646.41  | ..... | 9689    |
| A6346    | ..... | 7556 | B0124.1  | ..... | 9072    | B0288    | ..... | 9329   | B0646.45  | ..... | 9689.1  |
| A6347.15 | ..... | 7560 | B0124.16 | ..... | 9075    | B0296    | ..... | 9348   | B0646.47  | ..... | 9689.2  |
| A6347.16 | ..... | 7564 | B0124.17 | ..... | 9075.1  | B0298    | ..... | 9352   | B0646.5   | ..... | 9689.3  |
| A6347.41 | ..... | 7568 | B0124.18 | ..... | 9075.5  | B0299    | ..... | 9356   | B0646.7   | ..... | 9690    |
| A6348    | ..... | 7576 | B0124.19 | ..... | 9075.51 | B0300    | ..... | 9360   | B0646.75  | ..... | 9690.1  |
| A6350    | ..... | 7580 | B0124.2  | ..... | 9075.2  | B0300.1  | ..... | 9364   | B0647     | ..... | 9692    |
| A6392    | ..... | 7584 | B0124.5  | ..... | 9075.7  | B0318    | ..... | 9388   | B0647.7   | ..... | 9702    |
| A6394    | ..... | 7588 | B0124.51 | ..... | 9075.72 | B0319.9  | ..... | 9392   | B0647.701 | ..... | 9703    |
| A6396    | ..... | 7592 | B0125    | ..... | 9096    | B0320    | ..... | 9396   | B0648     | ..... | 9696    |
| A6406    | ..... | 7596 | B0125.1  | ..... | 9100    | B0320.1  | ..... | 9400   | B0648.31  | ..... | 9701    |
| A6408    | ..... | 7600 | B0126    | ..... | 9082    | B0330    | ..... | 9404   | B0662     | ..... | 9704    |
| A6410    | ..... | 7604 | B0126.1  | ..... | 9082.1  | B0336    | ..... | 9408   | B0662.1   | ..... | 9708    |

# CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

| Inter.   | — | U.S.   | Inter.  | — | U.S.    | Inter.   | — | U.S.    | Inter.   | — | U.S.    |
|----------|---|--------|---------|---|---------|----------|---|---------|----------|---|---------|
| B0670    |   | 9720   | B0924   |   | 10000   | B1240    |   | 10376   | B1474    |   | 10575   |
| B0670.2  |   | 9716   | B0926   |   | 10004   | B1240.1  |   | 10380   | B1474.1  |   | 10575.1 |
| B0673    |   | 9724   | B0938   |   | 10008   | B1241    |   | 10375   | B1499    |   | 10575.2 |
| B0673.1  |   | 9728   | B0970   |   | 10032   | B1256.5  |   | 10390   | B1574.35 |   | 10579   |
| B0711.4  |   | 9732   | B0972.5 |   | 10035   | B1256.9  |   | 10388.1 | B1578.6  |   | 10578   |
| B0712    |   | 9736   | B0976   |   | 10040   | B1257    |   | 10388   | B1595.6  |   | 10579.1 |
| B0712.1  |   | 9740   | B0981   |   | 10040.5 | B1257.1  |   | 10389.1 | B1606    |   | 10580   |
| B0750    |   | 9748   | B0983   |   | 10048   | B1258    |   | 10392   | B1609    |   | 10584   |
| B0751    |   | 9752   | B0987   |   | 10043   | B1260    |   | 10396   | B1610    |   | 10592   |
| B0751.1  |   | 9756   | B0987.2 |   | 10042   | B1262    |   | 10400   | B1624    |   | 10596   |
| B0751.4  |   | 9772   | B0987.4 |   | 10044   | B1264    |   | 10404   | B1652    |   | 10600   |
| B0751.6  |   | 9768   | B0989   |   | 10045   | B1264.6  |   | 10406   | B1672    |   | 10604   |
| B0752    |   | 9776   | B1010   |   | 10052   | B1268    |   | 10408   | B1676.1  |   | 10612   |
| B0753    |   | 9780   | B1012   |   | 10056   | B1268.1  |   | 10412   | B1686    |   | 10620   |
| B0753.1  |   | 9760   | B1044   |   | 10053   | B1274    |   | 10416   | B1688    |   | 10628   |
| B0753.11 |   | 9764   | B1046   |   | 10054   | B1275    |   | 10420   | B1700    |   | 10640   |
| B0753.2  |   | 9758   | B1051   |   | 10014   | B1297.17 |   | 10422   | B1704    |   | 10644   |
| B0753.25 |   | 9758.1 | B1052   |   | 10060   | B1297.18 |   | 10422.1 | B1706    |   | 10648   |
| B0753.4  |   | 9757   | B1054   |   | 10072   | B1298    |   | 10423   | B1714    |   | 10652   |
| B0753.45 |   | 9757.1 | B1074   |   | 10092   | B1312    |   | 10136   | B1728    |   | 10636   |
| B0754    |   | 9766   | B1078   |   | 10100   | B1318    |   | 10156   | B1735    |   | 10676   |
| B0754.05 |   | 9765   | B1080   |   | 10104   | B1318.2  |   | 10160   | B1738    |   | 10692   |
| B0754.8  |   | 9759   | B1082   |   | 10108   | B1320    |   | 10164   | B1738.6  |   | 10696   |
| B0755    |   | 9782   | B1082.1 |   | 10112   | B1324    |   | 10168   | B1740    |   | 10700   |
| B0760    |   | 9784   | B1084   |   | 10116   | B1324.1  |   | 10172   | B1746    |   | 10704   |
| B0766    |   | 9792   | B1084.1 |   | 10120   | B1325    |   | 10176   | B1748    |   | 10708   |
| B0766.1  |   | 9796   | B1092   |   | 10124   | B1325.2  |   | 10180   | B1749    |   | 10712   |
| B0767    |   | 9808   | B1096.5 |   | 10128   | B1326    |   | 10148   | B1757    |   | 10719.5 |
| B0768    |   | 9800   | B1112   |   | 10192   | B1326.1  |   | 10152   | B1758    |   | 10719.6 |
| B0769    |   | 9804   | B1113   |   | 10193   | B1328    |   | 10184   | B1759    |   | 10719.7 |
| B0770    |   | 9812   | B1113.2 |   | 10194   | B1344    |   | 10436   | B1772    |   | 10720   |
| B0783    |   | 9832   | B1122   |   | 10316   | B1348.49 |   | 10439   | B1772.1  |   | 10724   |
| B0784    |   | 9836   | B1134   |   | 10248   | B1348.5  |   | 10439.1 | B1772.2  |   | 10728   |
| B0785    |   | 9840   | B1134.1 |   | 10248.1 | B1349.8  |   | 10442.1 | B1774    |   | 10730   |
| B0786    |   | 9839   | B1138   |   | 10212   | B1349.9  |   | 10442.2 | B1778    |   | 10744   |
| B0786.9  |   | 9841   | B1138.1 |   | 10216   | B1352    |   | 10576   | B1778.1  |   | 10748   |
| B0789    |   | 9844   | B1139   |   | 10220   | B1361    |   | 10445.1 | B1779    |   | 10752   |
| B0789.1  |   | 9848   | B1139.1 |   | 10224   | B1361.1  |   | 10445   | B1779.1  |   | 10756   |
| B0800    |   | 9856   | B1152   |   | 10300   | B1361.2  |   | 10446   | B1780    |   | 10732   |
| B0800.1  |   | 9860   | B1156   |   | 10264   | B1363    |   | 10448   | B1780.2  |   | 10740   |
| B0842    |   | 9864   | B1156.1 |   | 10268   | B1363.2  |   | 10452   | B1780.4  |   | 10736   |
| B0849    |   | 9876   | B1158   |   | 10272   | B1368    |   | 10460   | B1782    |   | 10760   |
| B0852.1  |   | 9948   | B1159   |   | 10276   | B1370    |   | 10464   | B1784    |   | 10768   |
| B0856    |   | 9880   | B1163   |   | 10284   | B1374    |   | 10468   | B1784.4  |   | 10772   |
| B0858    |   | 9884   | B1164   |   | 10288   | B1395.9  |   | 10502.1 | B1786    |   | 10776   |
| B0859    |   | 9952   | B1166   |   | 10292   | B1396    |   | 10502   | B1788    |   | 10780   |
| B0864    |   | 9900   | B1168   |   | 10296   | B1396.1  |   | 10502.2 | B1794    |   | 10788   |
| B0864.1  |   | 9904   | B1188   |   | 10308   | B1396.2  |   | 10503   | B1796    |   | 10792   |
| B0865    |   | 9912   | B1196   |   | 10320   | B1411    |   | 10519   | B1804    |   | 10796   |
| B0867    |   | 9924   | B1198   |   | 10324   | B1412    |   | 10520   | B1805    |   | 10800   |
| B0867.5  |   | 9928   | B1204   |   | 10335   | B1412.1  |   | 10524   | B1817.4  |   | 10806   |
| B0870    |   | 9936   | B1210   |   | 10336   | B1414    |   | 10525   | B1817.41 |   | 10806.1 |
| B0876    |   | 9950   | B1214   |   | 10340   | B1416    |   | 10528   | B1818.5  |   | 10802   |
| B0876.2  |   | 9951   | B1214.1 |   | 10344   | B1416.1  |   | 10532   | B1818.51 |   | 10802.1 |
| B0881    |   | 9956   | B1224   |   | 10360   | B1425    |   | 10572   | B1819.6  |   | 10840   |
| B0886    |   | 9960   | B1224.1 |   | 10364   | B1428    |   | 10573   | B1822    |   | 10816   |
| B0890    |   | 9977   | B1225   |   | 10328   | B1431    |   | 10556   | B1822.1  |   | 10820   |
| B0894    |   | 9968   | B1225.1 |   | 10332   | B1431.1  |   | 10560   | B1848    |   | 10716   |
| B0896    |   | 9972   | B1226   |   | 10350   | B1436    |   | 10564   | B1848.7  |   | 10716.1 |
| B0898    |   | 9976   | B1228   |   | 10352   | B1438    |   | 10552   | B1860    |   | 10852   |
| B0904    |   | 9980   | B1228.1 |   | 10356   | B1442    |   | 10568   | B1861    |   | 10856   |
| B0904.5  |   | 9982   | B1230   |   | 10381   | B1444    |   | 10569   | B1862    |   | 10860   |
| B0908    |   | 9984   | B1230.1 |   | 10382   | B1453.9  |   | 10574.1 | B1862.2  |   | 10868   |
| B0912    |   | 9992   | B1239   |   | 10368   | B1454    |   | 10574   | B1862.4  |   | 10864   |
| B0920    |   | 9996   | B1239.1 |   | 10372   | B1454.1  |   | 10574.2 | B1868    |   | 10872   |

# CROSS REFERENCE - INTERNATIONAL vs. U.S. LIGHT NUMBER

| Inter.  | —     | U.S.  | Inter.  | —     | U.S.  | Inter.  | —     | U.S.  | Inter.  | —     | U.S.  |
|---------|-------|-------|---------|-------|-------|---------|-------|-------|---------|-------|-------|
| B1880   | ..... | 10880 | B1897   | ..... | 10924 | B2080.1 | ..... | 10964 | B2102   | ..... | 11004 |
| B1881   | ..... | 10884 | B1897.1 | ..... | 10928 | B2084   | ..... | 10968 | B2106   | ..... | 11008 |
| B1884.4 | ..... | 10900 | B1900   | ..... | 10932 | B2085   | ..... | 10984 | B2107   | ..... | 11012 |
| B1884.6 | ..... | 10904 | B1902   | ..... | 10936 | B2086   | ..... | 10980 | B2107.1 | ..... | 11016 |
| B1885   | ..... | 10892 | B1903   | ..... | 10940 | B2087   | ..... | 10972 | B2108   | ..... | 11020 |
| B1885.2 | ..... | 10896 | B2070   | ..... | 10944 | B2087.1 | ..... | 10976 | B2110   | ..... | 11024 |
| B1886   | ..... | 10908 | B2072   | ..... | 10948 | B2088   | ..... | 10988 | B2112   | ..... | 11028 |
| B1890   | ..... | 10912 | B2072.1 | ..... | 10952 | B2089   | ..... | 10992 | B2113   | ..... | 11032 |
| B1894   | ..... | 10916 | B2074   | ..... | 10956 | B2090   | ..... | 10996 |         |       |       |
| B1894.1 | ..... | 10920 | B2080   | ..... | 10960 | B2098   | ..... | 11000 |         |       |       |