

Chart 5011
(INT 1 Format)
Edition 4 - October 2008



SYMBOLS and ABBREVIATIONS

used on Admiralty Charts

CONTENTS

System for Updating	inside front cover
Introduction and Schematic Layout	2

GENERAL

A Chart Number, Title, Marginal Notes	4
B Positions, Distances, Directions, Compass	6

TOPOGRAPHY

C Natural Features	9
D Cultural Features	12
E Landmarks	14
F Ports	16
G Topographic Terms (omitted: only useful in Non-English versions of this publication)	

HYDROGRAPHY

H Tides, Currents	20
I Depths	23
J Nature of the Seabed	25
K Rocks, Wrecks, Obstructions	28
L Offshore Installations	31
M Tracks, Routes	33
N Areas, Limits	36
O Hydrographic Terms (omitted: only useful in Non-English versions of this publication)	

NAVIGATION AIDS AND SERVICES

P Lights	39
Q Buoys, Beacons	45
R Fog Signals	51
S Radar, Radio, Satellite Navigation Systems	52
T Services	54
U Small Craft (Leisure) Facilities	56

ALPHABETICAL INDEXES

V Abbreviations of Principal Non-English Terms	58
V Abbreviations of Principal English Terms	62
W International Abbreviations	65
X Index	67
Section Key	inside back cover

INTRODUCTION

General

Chart 5011 is primarily a key to symbols and abbreviations used on Admiralty and International paper charts compiled by the UKHO (United Kingdom Hydrographic Office). Variations may occur on charts adopted into the Admiralty Series that were originally produced by another hydrographic office. Where these symbols and abbreviations are easily understood they will not be included as examples in this publication. Symbols and abbreviations shown on navigational display systems using vector electronic charts may differ from those described in this document.

Schematic Layout of Chart 5011

This edition of Chart 5011 is based on the "Chart Specifications of the IHO" (International Hydrographic Organization) adopted in 1982, with later additions and corrections. The layout and numbering accords with the official IHO version of Chart INT 1 (English version produced by Germany).

Tracks, Routes M				
Tracks Marked by Lights → P		Leading Beacons → Q		Tracks
1				433.1 433.2 433.3

- 1 Section.
- 2 Section designation. (In some nautical publications, this reference is pre-fixed "I", for International.)
- 3 Sub-section.
- 4 Cross-reference to terms in other sections.
- 5 Column 1: Numbering following the International "Chart Specifications of the IHO". A letter in this column, e.g. a, indicates a supplementary national symbol for which there is no International equivalent.
- 6 Column 2: International (INT) symbols used on Admiralty charts. Where both are shown, true to scale representations are to the left of symbols.
- 7 Column 3: Term and explanation in English.
- 8 Column 4: Other symbol or abbreviation used on Admiralty charts, if different from Column 2.
- 9 Column 5: Not navigationally significant. Cross references to the "Chart Specifications of the IHO", M-4 (Part B, unless a reference letter to another part is given).

The mark † indicates that this representation or usage is obsolescent.
The mark # in Columns 2, 3 and 4 indicates that this symbol will only be found on charts adopted into the Admiralty chart series.
However, users should note that on such charts additional or different symbols not listed in this publication may be used. Where not easily understood, such symbols will be explained on those charts.

- Metric Charts & Fathoms Charts** Metric units are introduced on Admiralty charts as they are modernised (except for charts of the waters around the United States of America, where fathoms or feet continue to be used). Fathom and/or feet charts can be distinguished from metric charts by the use of grey for land areas, a note in the title block and in some cases by a prominent legend in the margin.
- Chart Datum** On metric charts, the reference level for soundings is given under the chart title. On fathoms charts, the reference level for soundings may be given under the title; if not, it can be deduced from the tidal information panel.
- Depths** The units used are given under the title of the chart. The position of a sounding is the centre of the area covered by the figures.

On metric charts, depths of less than 21m are generally expressed in metres and decimetres. Where source information is sufficiently precise, depths between 21m and 31m may be given in half-metres. All other depths are rounded down to whole metres.

On fathom charts, depths are generally expressed in fathoms and feet where less than 11 fms, and in fathoms elsewhere. Where source information is sufficiently precise, depths between 11 and 15 fms may be given in fathoms and feet. Older charts may show fractions of fathoms in depths of 10 fathoms or less, and a few large-scale charts show all depths in feet.

On adopted or co-produced charts these ranges may vary.
- Drying heights** Underlined figures on rocks and banks which uncover indicate heights above chart datum. They are given in metres and decimetres or in feet as appropriate.

<i>Heights</i>	Heights are given in metres or in feet above the charted height datum; details are given in the Explanatory Notes under the chart title. The position of a height is normally that of the dot alongside it, thus ·79 . Parentheses are used when the figure expressing height is set apart from the object (eg when showing the height of a small islet). Clearance heights may be referred to a higher datum than other heights. In such cases this will be stated in the Explanatory Notes.
<i>Bearings</i>	Bearings are given from seaward and refer to the true compass.
<i>Sea Miles and Cables</i>	A sea mile is the length of one minute of latitude locally, and is the principal means of expressing distance on Admiralty charts. A cable is one-tenth of a sea mile.
<i>Names</i>	Names on Admiralty charts are spelt in accordance with the principles and systems approved by the Permanent Committee on Geographical Names for British Official Use. A second name may be given, usually in parentheses, in the following circumstances: a. if the retention of a superseded rendering will facilitate cross-reference to related publications; b. if, in the case of a name that has changed radically, the retention of the former one will aid recognition; c. if it is decided to retain an English conventional name in addition to the present official rendering;
<i>Chart Catalogues</i>	Details of Admiralty charts are given in the "Catalogue of Admiralty Charts and Publications" (NP 131) and regional catalogues 'Caribbean' (NP105), 'Mediterranean' (NP106), 'Scandinavian' (NP107), 'North West Europe' (NP109), all published annually.
<i>The Mariner's Handbook and other Publications</i>	The Mariner's Handbook (NP 100) includes information on the following: The use of charts and the degree of reliance that may be placed on them; chart supply and correction; names; charted navigational aids; navigational hazards; traffic separation schemes; offshore oil and gas operations; tides and currents; general marine meteorology. A glossary of terms used on Admiralty charts is also given. Information about features represented on charts can also be found in the following publications or their digital equivalents: Admiralty Sailing Directions; Admiralty List of Lights and Fog Signals; Admiralty Tide Tables and Tidal Stream Atlases; Admiralty List of Radio Signals; Annual Notices to Mariners; IALA Maritime Buoyage System.
<i>Copyright</i>	Admiralty charts and publications (including this one) are protected by Crown Copyright. They are derived from Crown Copyright information and from copyright information published by other organisations. They may not be reproduced in any material form (including photocopying or storing by electronic means) without prior permission of the copyright owners, which may be sought by applying, in the first instance, to the Copyright Manager; The United Kingdom Hydrographic Office, Taunton, Somerset TA1 2DN, UK.

A Chart Number, Title, Marginal Notes

Schematic Layout of an Admiralty INT chart (reduced in size)

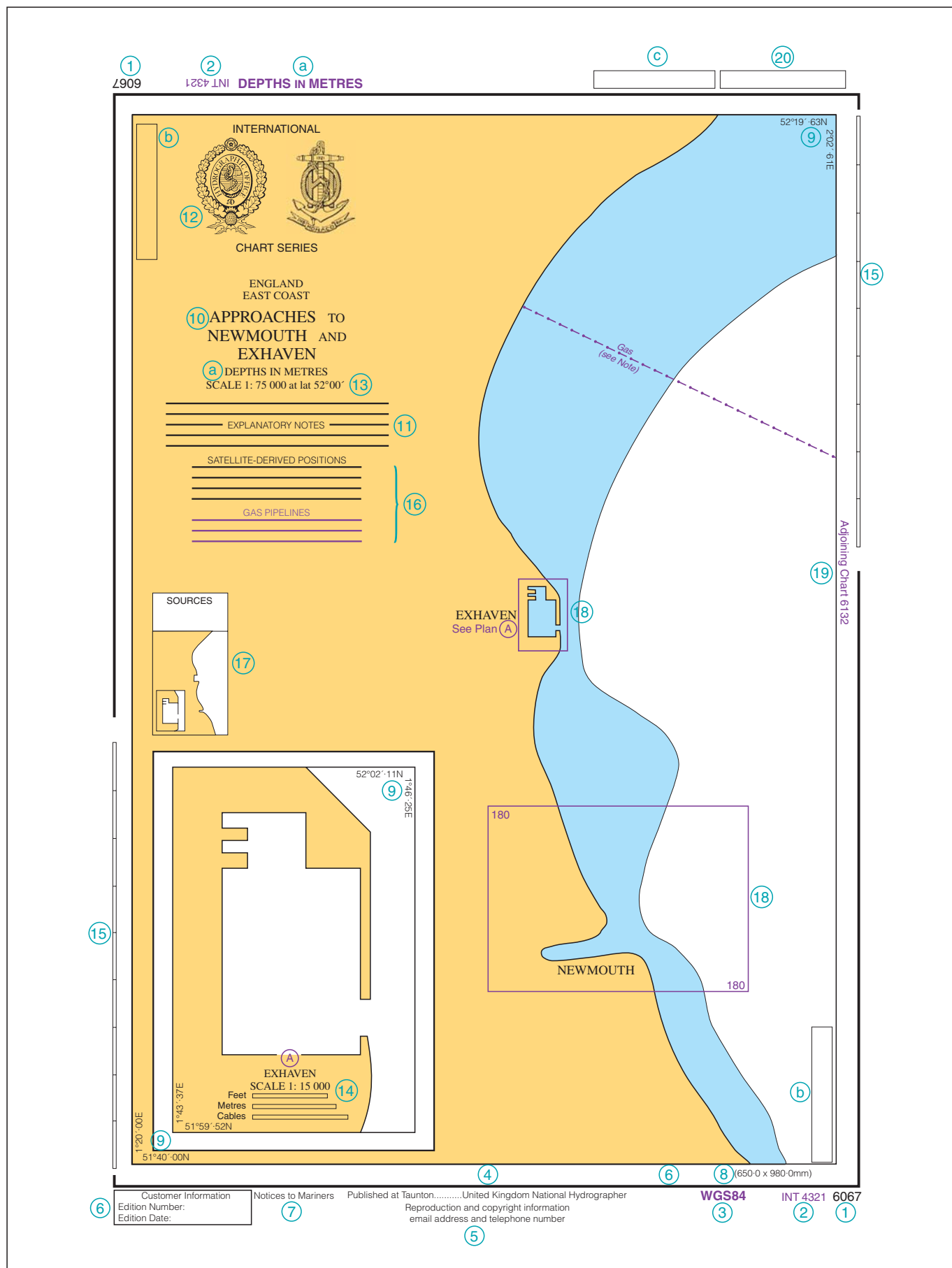
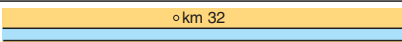


Chart Number, Title, Marginal Notes A

Magnetic Features → B	Tidal Data → H	Satellite Navigation Systems → S
① Chart number in the Admiralty series.		251
② Chart number in the International (INT) Chart series.		251.1
③ Use of WGS84 geodetic reference system.		201 255.3
④ Publication note (imprint) showing the date of publication as a New Chart.		252.1 252.4
⑤ Reproduction and Copyright acknowledgement note. All Admiralty charts are subject to Crown Copyright restrictions.		253
⑥ Customer Information, Edition Number, Edition Date, (charts revised prior to May 2000 have New Edition date at bottom right of chart)		252.2
⑦ Notices to Mariners: (a) the year dates and numbers of Notices to Mariners and (b) the dates (usually bracketed) of minor corrections included in reprints but not formally promulgated (abandoned as a method of correction in 1986), (charts revised prior to May 2000 have the legend 'Small corrections').		252.3
⑧ Dimensions of the inner neat-lines of the chart border. In the case of charts on Transverse Mercator and Gnomonic projections, dimensions may be quoted for all borders of the chart which differ. Some Fathoms charts show the dimensions in inches e.g. (38.40 x 25.40).		222.3 222.4
⑨ Corner co-ordinates.		214
⑩ Chart title. This should be quoted, in addition to the chart number, when ordering a chart.		241.3
⑪ Explanatory notes on chart content; to be read before using the chart.		242
⑫ Seals. Where an Admiralty chart is in the International Chart series, the seal of the International Hydrographic Organization (IHO) is shown in addition to the national seal. Reproductions of international charts of other nations (facsimile) have the seals of the original producer (left), publisher (centre) and the IHO (right). Reproductions of other charts have the seals of original producer (left) and publisher (right); charts which are co-productions carry the seals of the nations involved in their production.		241.1 241.2
⑬ Scale of chart; on Mercator projection, at a stated latitude.		211 241.4
⑭ Linear scales on large-scale plan.		221
⑮ Linear border scales (metres). On smaller scale charts, the latitude border should be used to measure Sea miles and Cables.		221.1
⑯ Cautionary notes (if any) on charted detail; to be read before using the chart.		242
⑰ Source Diagram (if any). If a Source Diagram is not shown, details of the sources used in the compilation of the chart are given in the explanatory notes (see 10). The Source Diagram or notes should be studied carefully before using the chart in order to assess the reliability of the sources.		290-298
⑱ Reference to a larger scale chart or plan (with reference letter if plan on same chart).		254
⑲ Reference to an adjoining chart of similar scale.		254
⑳ Note 'IMPORTANT - THE USE OF ADMIRALTY CHARTS'.		243
Ⓐ Reference to the units used for depths measurement. The legend, 'DEPTHS IN FATHOMS/FEET', is shown on certain more recent fathoms charts where confusion might otherwise arise.		241.5 255.2
Ⓑ Conversion scales. To allow approximate conversions between metric and fathoms and feet units. On older charts, conversion tables are given instead.		280
Ⓒ Copyright Notice		

B Positions, Distances, Directions, Compass

Geographical Positions					
1	Lat	Latitude			
2	Long	Longitude			
3		International Meridian (Greenwich)			
4	°	Degree(s)			130
5	'	Minute(s) of arc			130
6	"	Second(s) of arc			130
7	PA	Position approximate (not accurately determined or does not remain fixed)	† (PA)	† (P.A.)	417 424.1
8	PD	Position doubtful (reported in various positions)	† (PD)	† (P.D.)	417 424.2
9	N	North			131.1
10	E	East			131.1
11	S	South			131.1
12	W	West			131.1
13	NE	North-east			
14	SE	South-east			
15	NW	North-west			
16	SW	South-west			

Control Points, Distance Marks					
20		Triangulation point			304.1
21		Observation spot	† + Obs Spot	† + Obsn. Spot	304.2
22		Fixed point			305.1 340.5
23		Benchmark	† ⚡ BM	† ⚡ B.M.	304.3
24		Boundary mark			306
25.1		Distance along waterway, no visible marker			307
25.2		Distance along waterway, with visible marker			361.3
a		Viewpoint		◦ See View	390.2

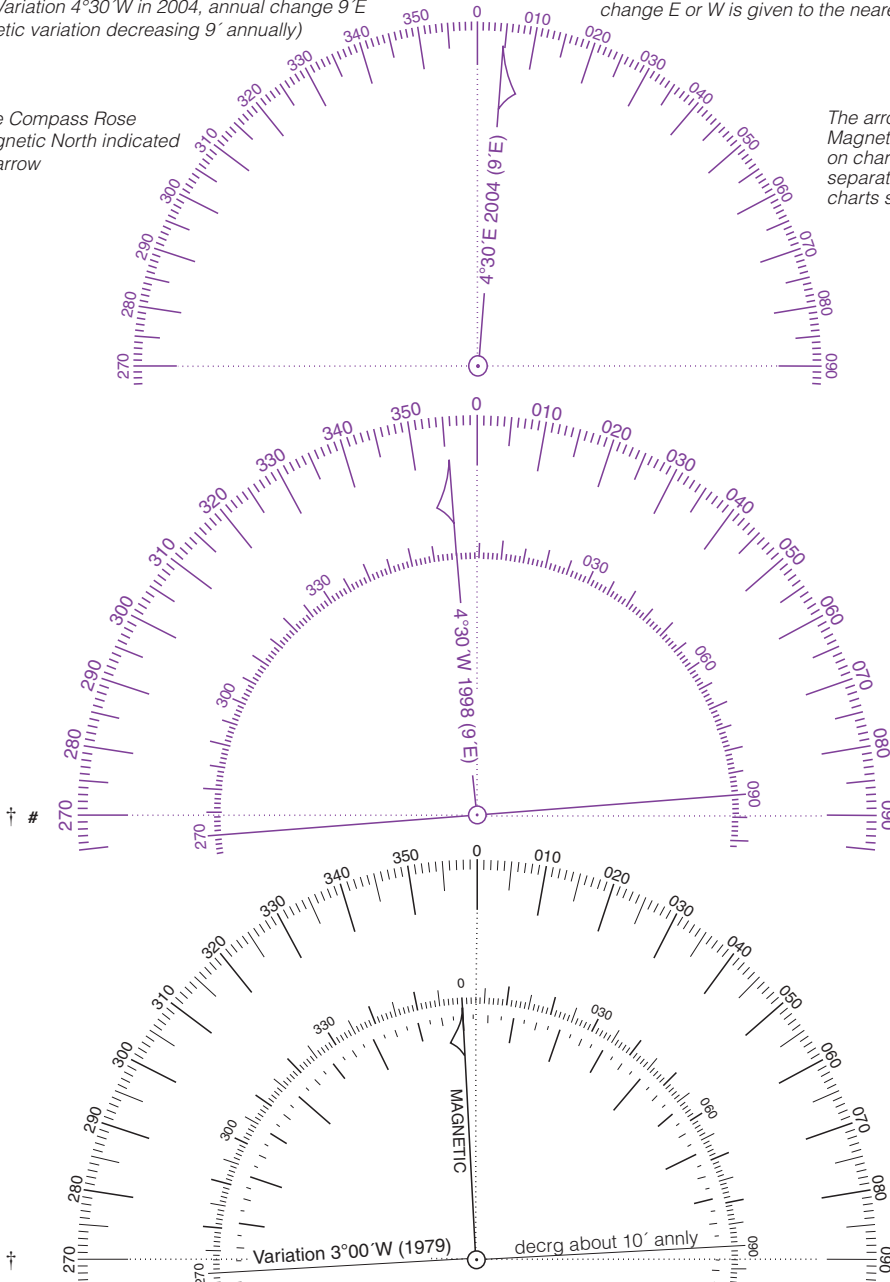
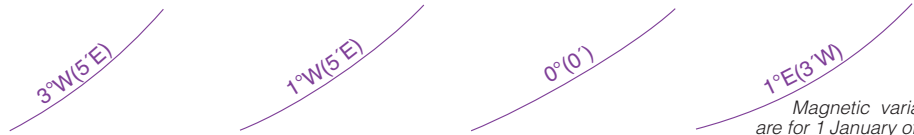
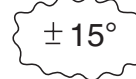
Symbolised Positions (Examples)					
30	  	Symbols in plan: position is centre of primary symbol			305.1
31	  	Symbols in profile: position is at bottom of symbol			305.1
32	◦ Mast ◯ MAST ★	Point symbols (accurate positions)			305.1 340.5
33	◦ Mast PA	Approximate position	†	◦ Mast PA	305.1

Positions, Distances, Directions, Compass **B**

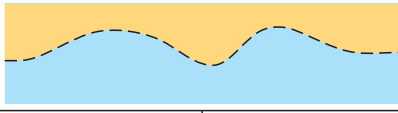
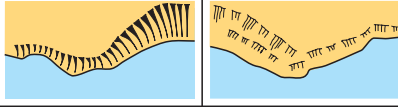
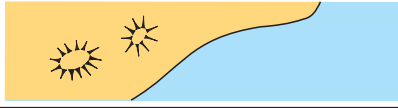
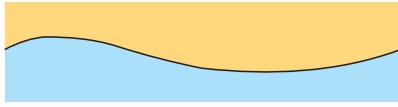
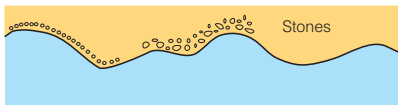
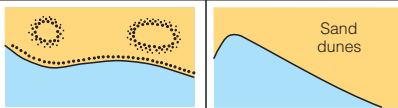
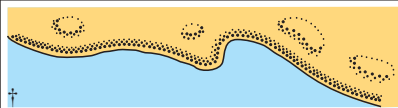
				Units
40	km		Kilometre(s)	
41	m		Metre(s)	130
42	dm		Decimetre(s)	130
43	cm		Centimetre(s)	
44	mm		Millimetre(s)	130
45	M		International Nautical Mile(s) (1852m) or Sea Mile(s)	n mile(s) M 130
46			Cable (0.1M)	130
47	ft		Foot/feet	
48			Fathom(s)	fms., fms.
49	h		Hour	130
50	# m	min	Minute(s) of time	130
51	s	# sec	Second(s) of time	† sec 130
52	kn		Knot(s)	130
53	t		Tonne(s), Ton(s), tonnage (weight)	328.3
54	#	cd	Candela	

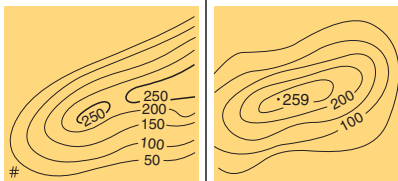
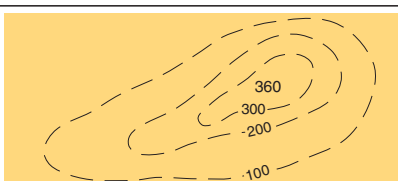
Magnetic Compass				
60			Variation	Var
61			Magnetic	Mag
62			Bearing	132
63			true	
64			decreasing	decr
65			increasing	incr
66			Annual change	
67			Deviation	
68.1	#	Magnetic Variation 4°30'W 2007 (8'E)	Note of magnetic variation, in position	272.2
68.2	#	Magnetic Variation at 55°N 8°W 4°30'W 2007 (8'E)	Note of magnetic variation, out of position	

B Positions, Distances, Directions, Compass

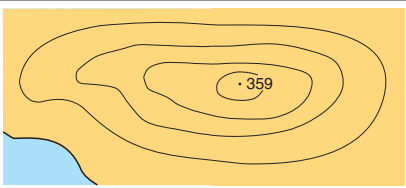
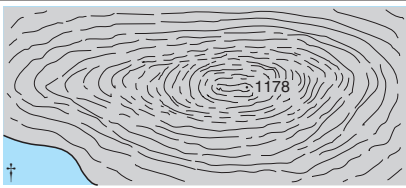
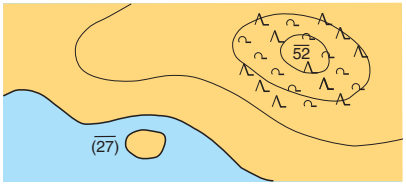
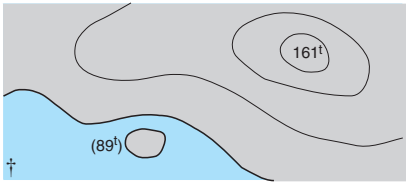
70	Compass Roses, True and Magnetic. 4°30' W 2004 (9' E) on magnetic north arrow means Magnetic Variation 4°30' W in 2004, annual change 9' E (i.e. magnetic variation decreasing 9' annually) Magnetic Variation is expressed to the nearest 5' and relates to 1 January of the year stated. Annual change E or W is given to the nearest minute. True Compass Rose Magnetic North indicated by arrow The arrow indicating Magnetic North is omitted on charts comprising separate plans and on charts showing isogonals.  The figure displays three compass roses. The top rose shows a true compass rose with magnetic north indicated by an arrow pointing to 4°30' W 2004 (9' E). The middle rose shows a magnetic compass rose with magnetic north indicated by an arrow pointing to 4°30' W 1998 (9' E). The bottom rose shows a magnetic compass rose with magnetic north indicated by an arrow pointing to 4°30' W 1998 (9' E). The bottom rose also includes a note: 'Variation 3°00' W (1979) decrg about 10' annly'. <td>260-262.2 272.3</td>	260-262.2 272.3		
71	Magnetic Variation Lines, Isogonals (lines of equal magnetic variation) MAGNETIC VARIATION LINES ARE FOR 2000 The magnetic variation is shown in degrees, followed by the letter E or W, as appropriate, at certain positions on the lines. The annual change is expressed in minutes with the letter E or W and is given in brackets, immediately following the variation.  3°W(5'E) 1°W(5'E) 0°(0') 1°E(3'W) Magnetic variation values are for 1 January of the year stated	272.1		
82.1		Local Magnetic Anomaly Within the enclosed area the magnetic variation may deviate from the normal by the value shown.		274
82.2	Local Magnetic Anomaly (see Note)	Where the area affected cannot be easily defined, a legend only is shown at the position.	Local Magnetic Anomaly (see Note)	

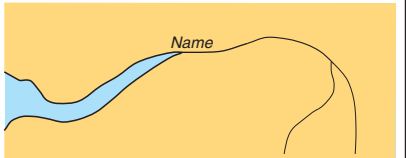
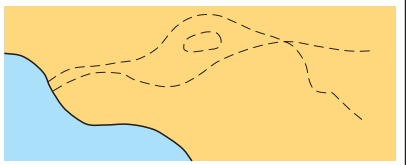
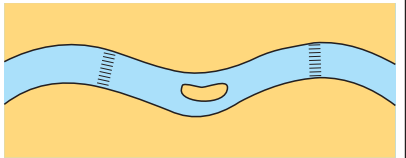
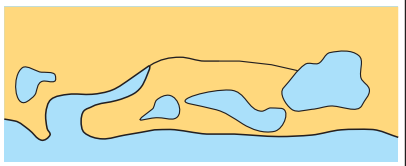
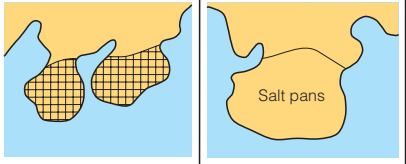
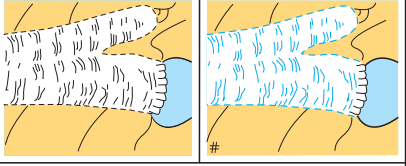
Natural Features **C**

Foreshore → I, J			Coastline	
1		Coastline, surveyed		310.1 310.2
2		Coastline, unsurveyed		311
3		Steep coast, Cliffs		312.1
4		Hillocks		312.1
5		Flat coast		312.2
6		Sandy shore		312.2
7		Stony shore, Shingly shore		312.2
8		Sandhills, Dunes		312.3

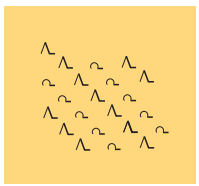
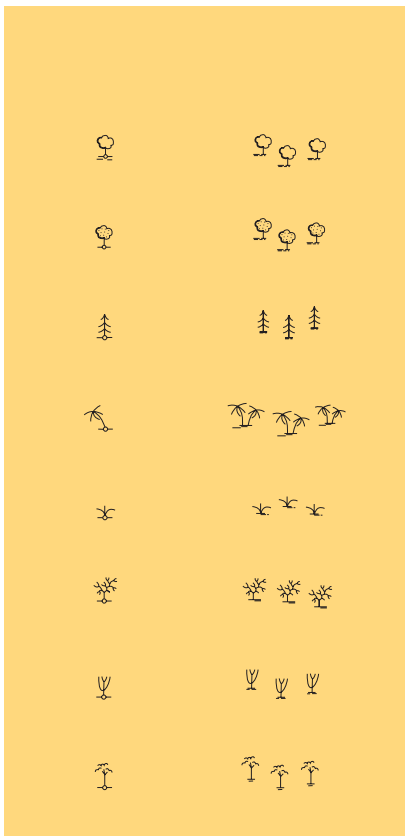
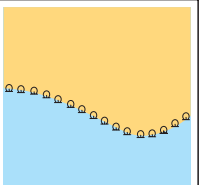
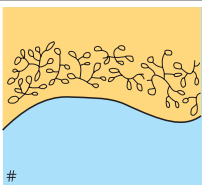
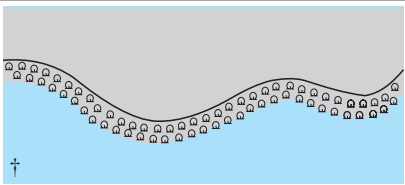
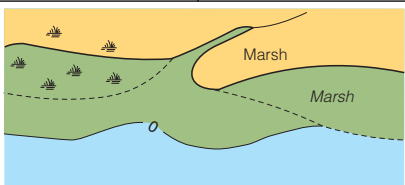
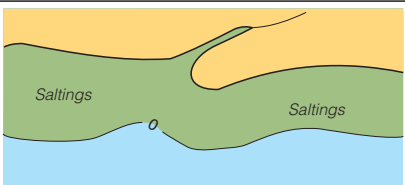
Plane of Reference for Heights → H			Relief	
10		Contour lines with values and spot height		351.3 351.4 351.5 351.6 352.2
11		Spot heights		352.1 352.2
12		Approximate contour lines with values and approximate height		351.3 351.4 351.5 351.6 352.3

C Natural Features

13		Form lines with spot height		351.2 351.3 351.7 352.2
14		Approximate height of top of trees (above height datum)		352.4

Water Features, Lava				
20		River, Stream		353.1 353.2 353.4
21		Intermittent river		353.3
22		Rapids, Waterfalls		353.5
23		Lakes		353.6
24		Salt pans		353.7
25		Glacier		353.8
26		Lava flow		355

Natural Features C

Vegetation					
30		Wooded	Woods in general		354.1
31			Prominent trees (isolated or in groups)		354.2
31.1			Deciduous tree, unknown or unspecified tree		
31.2			Evergreen (except conifer)		
31.3			Conifer		
31.4			Palm		
31.5			Nipa palm		
31.6			Casuarina		
31.7			Filao		
31.8			Eucalypt		
32			Mangrove		312.4
33			Marsh, Swamp, Salt marsh		312.2

D Cultural Features

Settlements, Buildings			Height of objects → E	Landmarks → E
1			Urban area	370.3 370.4
2			Settlement with scattered buildings	370.5
3			Settlement (on medium and small-scale charts)	370.7
4			Inland village	370.6
5			Building	370.5
6			Important building in built-up area	370.3
7			Street name, Road name	371
8			Ruin, Ruined landmark	378 378.2

Roads, Railways, Airfields				
10		Motorway		365.1
11		Road (hard surfaced)		365.2
12		Track, Path (loose or unsurfaced)		365.3
13		Railway, with station		328.4 362.1 362.2
14		Cutting		363.2
15		Embankment		364.1
16		Tunnel		363.1
17		Airport, Airfield		366.1 366.2
a		Tramway		
b		Helicopter landing site, Heliport		

Cultural Features **D**

Plane of Reference for Heights → H			Other Cultural Features		
20		Vertical clearance above Height Datum (in parentheses when displaced for clarity)		380.1 380.2	
21		Horizontal clearance		380.3	
22		Fixed bridge with vertical clearance		381.1	
23.1		Opening bridge (in general) with vertical clearance		381.3	
23.2		Swing bridge with vertical clearance			
23.3		Lifting bridge with vertical clearance (closed and open)			
23.4		Bascule bridge with vertical clearance			
23.5		Pontoon bridge			
23.6		Draw bridge with vertical clearance			
24		Transporter bridge with vertical clearance between Height Datum and lowest part of structure		381.2	
25		Overhead transporter, Aerial cableway with vertical clearance		382.3	
26		Power transmission line with pylons and safe vertical clearance (see Note below D29)		382.1	
27		Overhead cable, Telephone line, Telegraph line with vertical clearance		382 382.2	
28		Overhead pipe with vertical clearance		383	
29		Pipeline on land		377	

Note: The safe vertical clearance above Height Datum, as defined by the responsible authority, is given in magenta where known (see H20); otherwise the physical vertical clearance is shown in black as in D20.

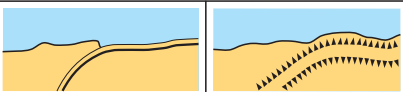
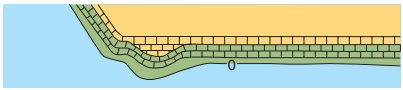
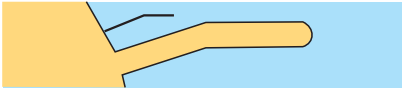
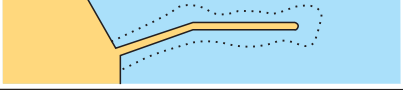
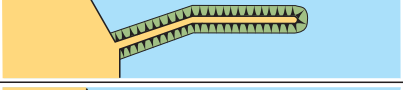
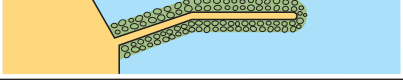
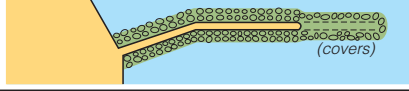
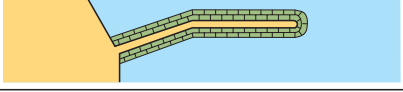
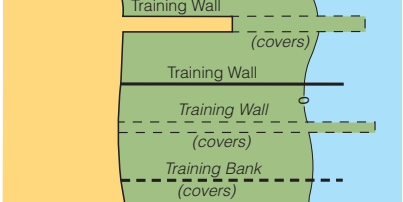
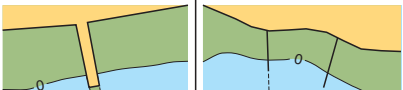
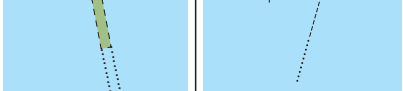
E Landmarks

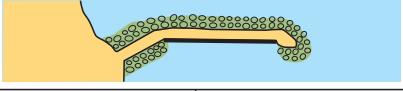
General	Plane of Reference for Heights → H	Lighthouses → P	Beacons → Q
1	 Factory  Hotel	Examples of landmarks	340.1 340.2 340.5
2	 FACTORY  HOTEL  WATER TOWER	Examples of conspicuous landmarks. A legend in capital letters indicates that a feature is conspicuous	340.1 340.2 340.3 340.5
3.1		Pictorial symbols (in true position)	340.7 373.1 390 456.5 457.3
3.2		Sketches, Views (out of position)	
4	 (30)	Height of top of a structure above height datum	302.3
5	 (30)	Height of top of a structure above ground level	303

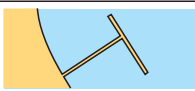
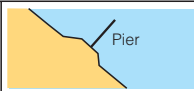
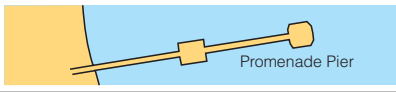
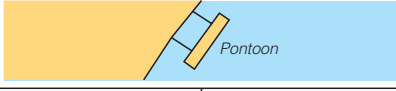
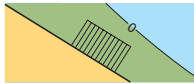
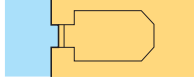
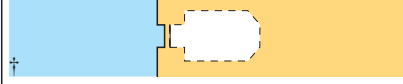
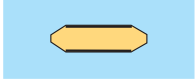
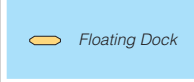
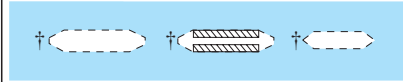
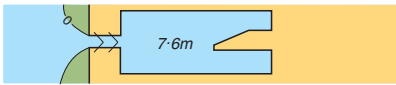
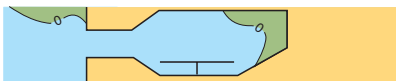
Landmarks					
10.1	 	Ch	Church, Cathedral	 Cath	373.1 373.2
10.2	 Tr  Tr		Church tower		373.2
10.3	 Sp  Sp		Church spire		373.2
10.4	 Cup  Cup		Church cupola		373.2
11			Chapel	 Ch	
12			Cross, Calvary		
13			Temple		373.3
14			Pagoda	 Pag	373.3
15			Shinto shrine, Joss house		373.3
16	 	#	Buddhist temple or shrine		373.3
17			Mosque, Minaret		373.4
18	 Marabout		Marabout	 Tomb 	373.5
19			Cemetery (all religions)	 Cemy	373.6

20		Tr	Tower		374.3
21			Water tower, Water tank on a tower	⊙ Water Tr	374.2 376
22		Chy	Chimney		374.1
23			Flare stack (on land)		374.1
24		Mon	Monument (including column, pillar, obelisk, statue)	† Mont Col	374.4
25.1			Windmill		374.5
25.2		Ru	Windmill (without sails)	†  (ru)	378.2
26.1			Wind turbine	†  Windmotor	374.6
26.2			Wind farm		374.6
27		FS	Flagstaff, Flagpole		374.7
28			Radio mast, Television mast, Mast	⊙ Radio mast ⊙ TV mast	375.1
29			Radio tower, Television tower	⊙ Radio Tr ⊙ TV Tr	375.2
30.1	⊙ Radar Mast		Radar mast		487.3
30.2	⊙ Radar Tr		Radar tower		
30.3	⊙ Radar Sc		Radar scanner		
30.4	⊙ Radome		Radome		
31			Dish aerial	†  ⊙ Dish aerial	375.4
32		Tanks	Tanks	† 	376.1 376.2
33	○ Silo ⊙ Silo		Silo		376.3
34.1		Fort	Fortified structure (on large-scale charts)		379.1
34.2			Castle, Fort, Blockhouse (on smaller scale charts)	†  Ft Cas	379.2
34.3			Battery, Small fort (on smaller scale charts)	†  Batt Baty	379.2
35.1			Quarry (on large-scale charts)	† 	367.1
35.2			Quarry (on smaller scale charts)		367.2
36			Mine		367.2

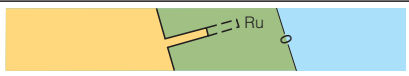
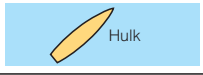
F Ports

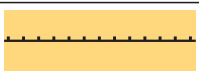
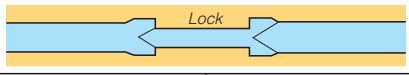
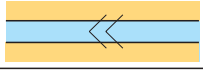
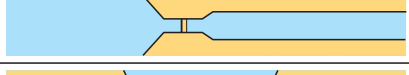
Protection Structures						
1		Dyke, Levee, Berm				313.1
2.1		Seawall (on large-scale charts)				313.2
2.2		Seawall (on smaller scale charts)				
3		Causeway				313.3
4.1		Breakwater (in general)				322.1
						
						
4.2		Breakwater (loose boulders, tetrapods, etc)				
4.3		Breakwater (slope of concrete or masonry)				
5		Training wall				322.2
6.1		Groyne (always dry)				313.4 324
6.2		Groyne (intertidal)				
6.3		Groyne (always underwater)				

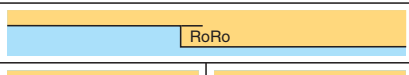
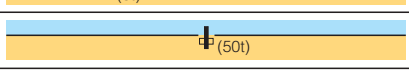
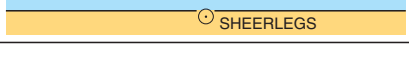
Harbour Installations Depths → I Anchorages, Limits → N Beacons and other fixed marks → Q Marina → U				
10		Fishing harbour		320.1
12		Mole (with berthing facility)		321.3
13		Quay, Wharf	Whf	321.1

14	 	Pier, Jetty		321.2 321.4
15		Promenade pier		321.2
16		Pontoon		326.9
17	 	Landing for boats	† Ldg	324.2
18		Steps, Landing stairs		
19	④ ⑤ 234	Designation of berth	† ④	323.1
20		Dolphin		327.1
21		Deviation dolphin		327.2
22		Minor post or pile		327.3
23	   	Slipway, Patent slip, Ramp		324.1
24		Gridiron, Scrubbing grid		326.8
25		Dry dock, Graving dock	† 	326.1
26	 	Floating dock	† 	326.2
27		Non-tidal basin, Wet dock		326.3
28		Tidal basin, Tidal harbour		326.4
29.1		Floating oil barrier		449.2
29.2		Oil retention barrier (high pressure pipe)		
30		Works on land, with year date		329.1
31		Works at sea, Area under reclamation, with year date		329.2
32	Under construction (2004) Works in progress (2004)	Works under construction, with year date	const † constr. † constn	329 329.4

F Ports

33.1		Ruin		378.1
33.2		Ruined pier, partly submerged at high water		
34		Hulk		
a		Bollard	◦ Bol	

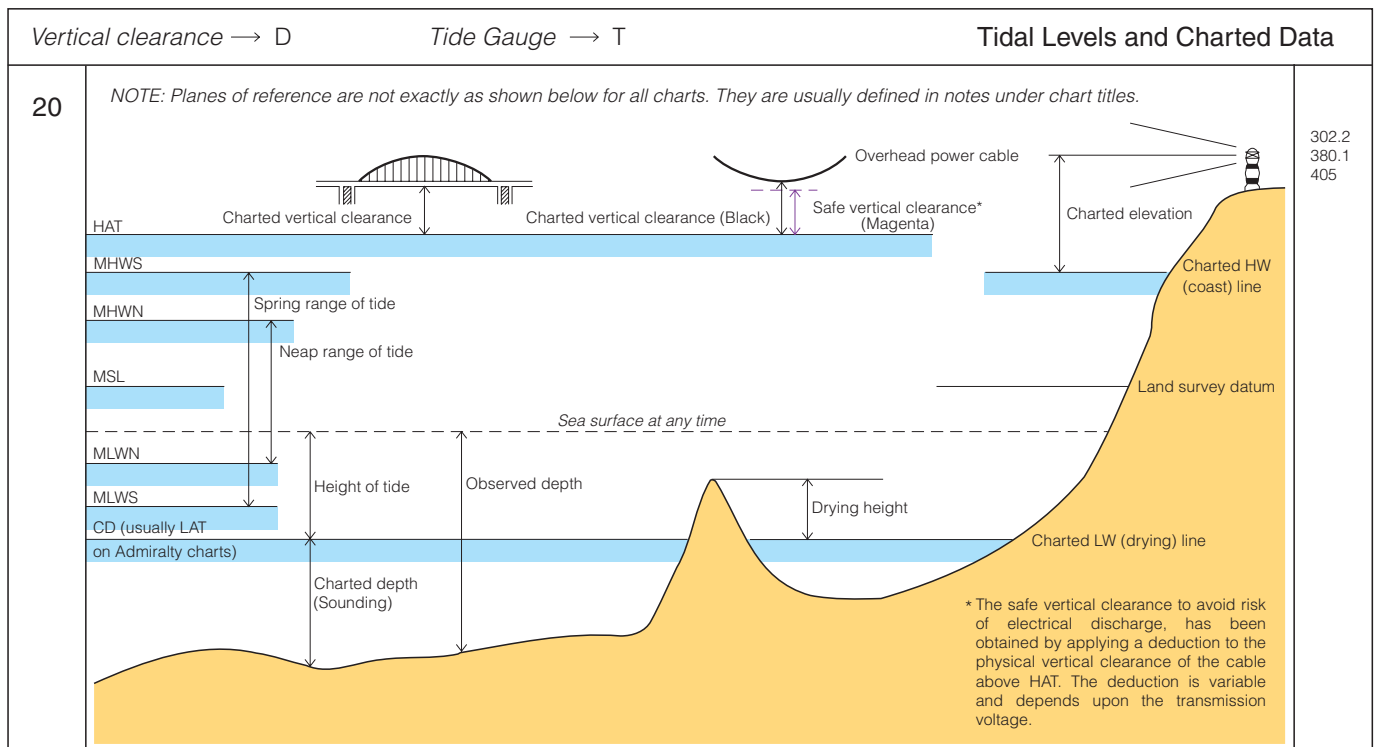
Rivers, Canals, Barrages		Clearances → D	Signal Stations → T	Cultural Features → D
40			Canal	361.6
41.1		Lock (on large-scale charts)		326.6 361.6
41.2		Lock (on smaller scale charts)		
42		Caisson, Gate		326.5
43		Flood barrage		326.7
44		Dam, Weir → Direction of flow		364.2

Transshipment Facilities		Roads → D	Railways → D	Tanks → E
50		Roll-on, Roll-off (RoRo) Ferry Terminal		321.5
51		Transit shed, Warehouse (with designation)		328.1
52		Timber yard		328.2
53.1		Crane (with lifting capacity) Travelling crane on railway		328.3
53.2		Container crane (with lifting capacity)		
53.3		Sheerlegs (conspicuous)		

Public Buildings				
60		Harbour Master's office	 Hr Mr	325.1
61		Custom office		325.2
62.1		Health office, Quarantine building		325.3
62.2	 Hospital	Hospital	 Hosp  Hospl	
63		Post office	 PO	372.1

H Tides, Currents

Terms Relating to Tidal Levels				
1	CD	Chart Datum Datum for sounding reduction		405
2	LAT	Lowest Astronomical Tide		405.3
3	HAT	Highest Astronomical Tide		
4	MLW	Mean Low Water		
5	MHW	Mean High Water		
6	MSL	Mean Sea Level		
7		Land survey datum		
8	MLWS	Mean Low Water Springs		
9	MHWS	Mean High Water Springs		
10	MLWN	Mean Low Water Neaps		
11	MHWN	Mean High Water Neaps		
12	MLLW	Mean Lower Low Water		
13	MHHW	Mean Higher High Water		
14	MHLW	Mean Higher Low Water		
15	MLHW	Mean Lower High Water		
16	Sp	Spring tide	† Spr.	
17	Np	Neap tide		
a		High Water	HW	
b		Low Water	LW	
c		Mean Tide Level	MTL	
d		Ordnance Datum	OD	



Tide Tables

30

Tabular statement of semi-diurnal or diurnal tides

Tidal Levels referred to Datum of Soundings

Place	Lat. N/S	Long. E/W	Heights in metres/feet above datum				Datum and Remarks
			MHWS	MHWN	MLWN	MLWS	
			MHHW	MLHW	MHLW	MLLW	

406.2
406.3
406.4
406.5

31

Tidal stream table

Tidal streams referred to....

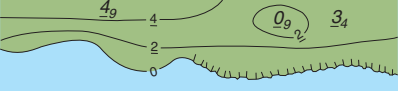
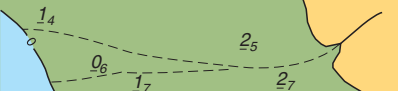
Hours	Geographical Position	A	B	C	D	E		
Before High Water 6 5 4 3 2 1 High Water After High Water 1 2 3 4 5 6	Directions of streams (degrees) Rates at spring tides (knots) Rates at neap tides (knots)	-6						
		-5						
		-4						
		-3						
		-2						
		-1						
		0						
		+1						
		+2						
		+3						
		+4						
		+5						
		+6						
						No		
						Maximum Rates		
						For predictions, use Admiralty Tide Tables		

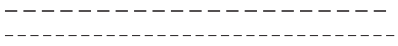
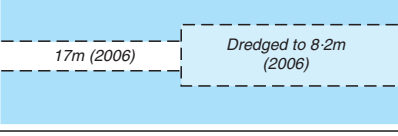
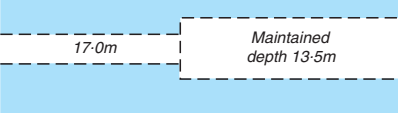
407.2
407.3

H Tides, Currents

Tidal Streams and Currents			Breakers →K	Tide Gauge →T	
40		Flood tide stream (with mean spring rate)	 	The number of black dots on the tidal stream arrows indicates the number of hours after High or Low Water at which the streams are running	407.4 408.2
41		Ebb tide stream (with mean spring rate)			407.4 408.2
42		Current in restricted waters			408.2
43		Ocean current. Details of current strength and seasonal variations may be shown			408.3
44		Overfalls, tide rips, races			423.1
45		Eddies			423.3
46		Position of tabulated tidal stream data with designation			407.2
47		Offshore position for which tidal levels are tabulated			406.5
e		Wave recorder			
f		Current meter			

General				
1	ED	Existence doubtful	† (ED)	417 424.3
2	 SD	Sounding of doubtful depth		417 424.4
3.1	Rep	Reported, but not confirmed	† Repd	417 424.5
3.2	Rep (1973)	Reported, with year of report, but not confirmed	† Repd (1973)	
4	 	Reported, but not confirmed, sounding or danger (on small-scale charts only)		M-4 Part C 404.3
a		Unexamined	unexam † unexamd	

Plane of Reference for Depths → H		Plane of Reference for Heights → H		Soundings and Drying Heights	
10	12 9 ₂ # 9,7	Sounding in true position			403.1 410/412 412.1
11	 + (12) 	Sounding out of position	  # + 1 ₈ 8 ₇ Z ₁		412 412.1 412.2
12		Least depth in narrow channel			412 412.1 412.2
13		No bottom found at depth shown			412.3
14	12 9 ₁	Soundings taken from old or smaller scale sources shown in upright, hairline figures			412.4 417.3
15		Drying heights and contours above chart datum			413 413.1 413.2
16		Natural watercourse (in intertidal area)			413.3

Plane of Reference for Depths → H		Depths in Fairways and Areas		
20		Limit of dredged channel or area (major and minor)	#	414.3
21		Dredged channel or area with depth of dredging in metres and decimetres	Depths may be shown as 3,5 or 3 ₅ on some adopted charts	414
22		Dredged channel or area with depth of dredging and year of the latest control survey		414.1
23		Dredged channel or area with depth regularly maintained		414.2

Depths

24		Area swept by wire drag. The depth is shown at Chart Datum. (The latest date of sweeping may be shown in parentheses)		415 415.1
25		Unsurveyed or inadequately surveyed area; area with inadequate depth information		410 417 417.6 417.7
#				

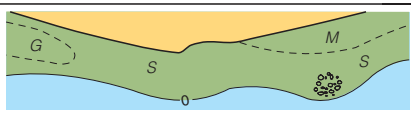
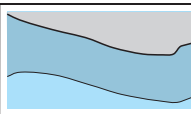
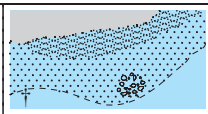
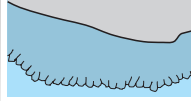
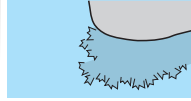
Depth Contours				
30		Drying contour Low Water (LW) Line, Chart Datum (CD) Blue tint, in one or more shades, and tint ribbons, are shown to different limits according to the scale and purpose of the chart and the nature of the bathymetry. On some charts, the standard set of contours is augmented by additional contours in order to delimit particular bathymetric features or for the benefit of particular categories of shipping. However, in some instances where the provision of additional contours would be helpful, the survey data available does not permit it. On some charts, contours and labels are printed in blue.	On charts showing depths in fathoms/feet, the following contours are used: 1 { 1 2 { 2 3 { 3 4 { 4 5 { 5 6 { 6 10 { 10 20 { 20 30 { 30 40 { 40 50 { 50 60 { 60 100 { 100 200 { 200 500 { 500 1000 { 1000 2000 { 2000 3000 { 3000 5000 { 5000 On some recently-corrected charts, contours may be shown by continuous lines.	404.2 410 411
31		Approximate depth contours (length of dashes may vary)		411.2 417.5

Nature of the Seabed J

Rocks → K			Types of Seabed	
1	S	Sand	† s	425 427
2	M	Mud	† m	
3	Cy	Clay	† cl	
4	Si	Silt		
5	St	Stones	† st	
6	G	Gravel	† g	
7	P	Pebbles	† peb	
8	Cb	Cobbles		
9.1	R	Rock, Rocky	† r	421.2
9.2	Bo	Boulder(s)		
10	Co	Coral	† crl	
11	Sh	Shells	† sh	
12.1	S/M	Two layers e.g. Sand over Mud	#M (25)/SG S (<1)/R (Thickness of surface layer in metres)	425.8
12.2	fS.M.Sh	Mixed: where the seabed comprises a mixture of materials, the main constituent is given first, e.g. fine Sand with Mud and Shells		425.9
13.1	Wd	Weed (including Kelp)	† wd	425.5
13.2		Kelp		428.2
14		Sandwaves		428.1
15		Spring in seabed		428.3
a		Ground	† Gd grd	
b		Ooze	† Oz	
c		Marl	† Ml	
d		Shingle	† Sn shin	
e		Chalk	† Ck chk	
f		Quartz	† Qz qrtz	
g		Madrepore	† Md mad	
h		Basalt	† Ba	
i		Lava	† Lv	
j		Pumice	† Pm pum	
k		Tufa	† T	
l		Scoriæ	† Sc	
m		Cinders	† Cn cin	

J Nature of the Seabed

n		Manganese	†	Mn	man	
o		Glauconite	†	Gc		
p		Oysters	†	Oy	oys	
q		Mussels	†	Ms	mus	
r		Sponge	†	Sp		
s		Algae	†	Al		
t		Foraminifera	†	Fr	for	
u		Globigerina	†	Gl		
v		Diatoms	†	Di		
w		Radiolaria	†	Rd	rad	
x		Pteropods	†	Pt		
y		Polyzoa	†	Po	pol	

Intertidal Areas					
20		Area of sand and mud with patches of stones or gravel			426.1
21		Rocky area			426.2
22		Coral reef			426.3

Qualifying Terms					
30	f	Fine	} only used in relation to sand		425 427
31	m	Medium			
32	c	Coarse			
33	bk	Broken	†	brk	
34	sy	Sticky	†	stk	
35	so	Soft	†	sft	
36	sf	Stiff	†	stf	
37	v	Volcanic	†	vol	
38	ca	Calcareous	†	cal	
39	h	Hard			425.5 425.7

Nature of the Seabed J

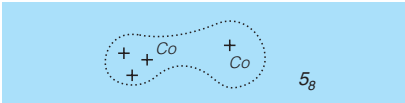
aa		<i>Small</i>	†	<i>sm</i>	
ab		<i>Large</i>	†	<i>l</i>	
ac		<i>Glacial</i>	†	<i>ga</i> <i>glac</i>	
ad		<i>Speckled</i>	†	<i>sk</i> <i>spk</i>	
ae		<i>White</i>	†	<i>w</i>	
af		<i>Black</i>	†	<i>bl</i> <i>blk</i>	
ag		<i>Blue</i>	†	<i>b</i>	
ah		<i>Green</i>	†	<i>gn</i>	
ai		<i>Yellow</i>	†	<i>y</i>	
aj		<i>Red</i>	†	<i>rd</i>	
ak		<i>Brown</i>	†	<i>br</i>	
al		<i>Chocolate</i>	†	<i>ch</i> <i>choc</i>	
am		<i>Grey</i>	†	<i>gy</i>	
an		<i>Light</i>	†	<i>lt</i>	
ao		<i>Dark</i>	†	<i>d</i>	

K Rocks, Wrecks, Obstructions

General				
1		Dangerline: A danger line draws attention to a danger which would not stand out clearly enough if represented solely by its symbol (e.g. isolated rock) or delimits an area containing numerous dangers, through which it is unsafe to navigate		411.4 420.1
2		Depth cleared by wire drag sweep or diver. The symbol may be used with other symbols, e.g. wrecks, obstructions, wells		415 422.3 422.9
3		Safe clearance depth. Obstruction over which the exact depth is unknown, but which is considered to have a safe clearance at the depth shown. The symbol may be used with other symbols, e.g. wrecks, wells, turbines		422.5 422.7
a		Dries	† Dr † dr	
b		Covers	† cov	
c		Uncovers	† uncov	

Rocks		Plane of Reference for Heights → H	Plane of Reference for Depths → H	
10		Rock (islet) which does not cover, height above height datum	(1,7) (3,1) (4,1)	421.1
11		Rock which covers and uncovers, height above Chart Datum, where known	† Dries 1-6m † Dr 1-6m	421.2
12		Rock awash at the level of Chart Datum		421.3
13		Underwater rock over which the depth is unknown, but which is considered dangerous to surface navigation		421.4
14		Underwater rock of known depth:		421.4
14.1		inside the corresponding depth area		
14.2		outside the corresponding depth area, dangerous to surface navigation		

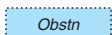
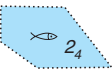
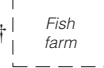
Rocks, Wrecks, Obstructions **K**

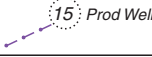
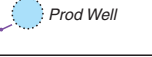
15		Underwater rock of known depth, not dangerous to surface navigation		421.4
16		Coral reef which is always covered		421.5
17		Breakers		423.2
d		Discoloured water	Discol † Discold	424.6

	Hulk → F	Plane of Reference for Depths → H	Historic Wreck → N	Wrecks and Fouls
20		Wreck, hull never covers, on large-scale charts		422.1
21		Wreck, hull covers and uncovers, on large-scale charts	†  Wk	†  Wk
22	 	Submerged wreck, depth known, on large-scale charts	† 	422.1
23		Submerged wreck, depth unknown, on large-scale charts	† 	422.1
24		Wreck showing any part of hull or superstructure at the level of Chart Datum		422.2
25		Wreck of which the mast(s) only are visible at Chart Datum	 	422.2
26	 	Wreck over which the depth has been obtained by sounding but not by wire sweep		422.4
27	 	Wreck, least depth obtained by wire sweep or diver		422.3
28		Wreck, depth unknown, which is considered potentially dangerous to surface navigation		422.5
29		Wreck, in over 200m or depth unknown, which is considered not dangerous to surface navigation. For information about depth criteria, which may vary, see NP100, The Mariner's Handbook		422.6
e		Submerged wreck, depth unknown	†  Wk	

K Rocks, Wrecks, Obstructions

30		Wreck over which the exact depth is unknown, but which is considered to have a safe clearance at the depth shown		422.5 422.7
31	 #	Foul area, not dangerous to surface navigation, but to be avoided by vessels anchoring, trawling, etc (eg remains of wreck, cleared platform)	  	422.8
f		Navigation light on stranded wreck		

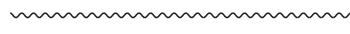
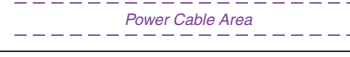
Obstructions		Plane of Reference for Depths → H	Kelp, Seaweed → J	Underwater Installations → L	
40	 	Obstruction or danger to navigation the exact nature of which is not specified or has not been determined, depth unknown			422.9
41	 	Obstruction, depth obtained by sounding but not wire sweep			422.9
42	 	Obstruction, least depth obtained by wire sweep or diver			422.9
43.1	 # 	Stumps of posts or piles, wholly submerged			327.5
43.2	# 	Submerged pile, stake, snag or stump (with exact position)			
44.1		Fishing stakes			447.1
44.2		Fish trap, fish weir, tunny nets			447.2
45	 	Fish trap area, tunny nets area	 (U.S. waters only)		447.3
46.1	 	Fish haven			447.5
46.2	 	Fish haven, with minimum depth			
47		Shellfish beds, with no obstruction to navigation			447.4
48.1		Marine farm (on large-scale charts)	 		447.6
48.2	 	Marine farm (on small-scale charts)			

Combined symbols → K (General)		Areas, Limits → N	General	
1		Name of oilfield or gasfield		445.3
2		Platform with designation/name	 	445.3
3		Limit of safety zone around offshore installation		439.2 445.16
4		Limit of development area		
5.1	  FLY 	Wind turbine, lit wind turbine and wind turbine with vertical clearance		445.8
5.2	 	Wind farm, wind farm with restricted area		445.9
Mooring Buoys → Q		Platforms and Moorings		
10		Production platform, Platform, Oil derrick	 	445.2
11	 Fla	Flare stack (at sea)		445.2
12	 SPM	Fixed Single Point Mooring, including Single Anchor Leg Mooring (SALM), Articulated Loading Column (ALC)		445.2 445.4
13		Observation / research platform (with name)	 Name	
14		Disused platform	 (disused)	
15		Artificial Island	 Name	
16		Floating Single Point Mooring, including Catenary Anchor Leg Mooring (CALM), Single Buoy Mooring (SBM)		445.4
17		Moored storage tanker including FSU and FPSO		445.5
18		Mooring ground tackle for fixing floating structures		431.6
Plane of Reference for Depths → H		Obstructions → K	Underwater Installations	
20	 15 Prod Well  Prod Well	Production well, with depth where known	 Well	445.5
21.1	 Well	Suspended well (wellhead and pipes projecting from the seabed) over which the depth is unknown		445.1
21.2	 15 Well	Suspended well over which the depth is known		445.1
21.3	 Well (5.7)	Suspended well with height of wellhead above the sea floor		
22	#	Site of cleared platform		422.8

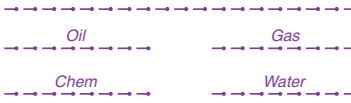
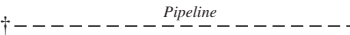
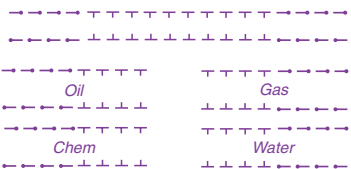
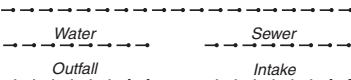
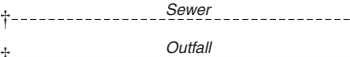
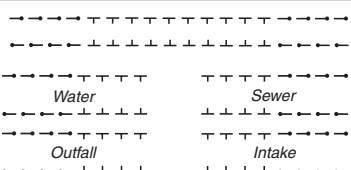
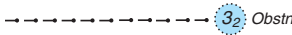
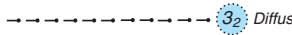
L Offshore Installations

23	   Pipe (1a)	Above-water wellhead (lit and unlit). The drying height or height above height datum is charted if known		445.1
24	 Turbine  FL(2) Underwater Turbine	Underwater turbine		445.10
c		Single Well Oil Production System. The depth shown is the least depth over the wellhead. For substantial periods of time a loading tanker is positioned over the wellhead	 SWOPS	445.1
d		Underwater installations; template, manifold	 Template  Manifold	445.1

Submarine Cables

30.1		Submarine cable		443.1
30.2		Submarine cable area		443.2 439.3
31.1		Submarine power cable		443.2
31.2		Submarine power cable area		443.2 439.3
32		Disused submarine cable		443.7

Submarine Pipelines

40.1		Supply pipeline: unspecified, oil, gas, chemicals, water		444 444.1
40.2		Supply pipeline area: unspecified, oil, gas, chemicals, water		444.3 439.3
41.1		Outfall and intake: unspecified, water, sewer, outfall, intake		444 444.2
41.2		Outfall and intake area: unspecified, water, sewer, outfall, intake		444.3 439.3
42		Buried pipeline / pipe (with nominal depth to which buried)		444.5
43		Diffuser, crib		444.8
44		Disused pipeline / pipe		444.7

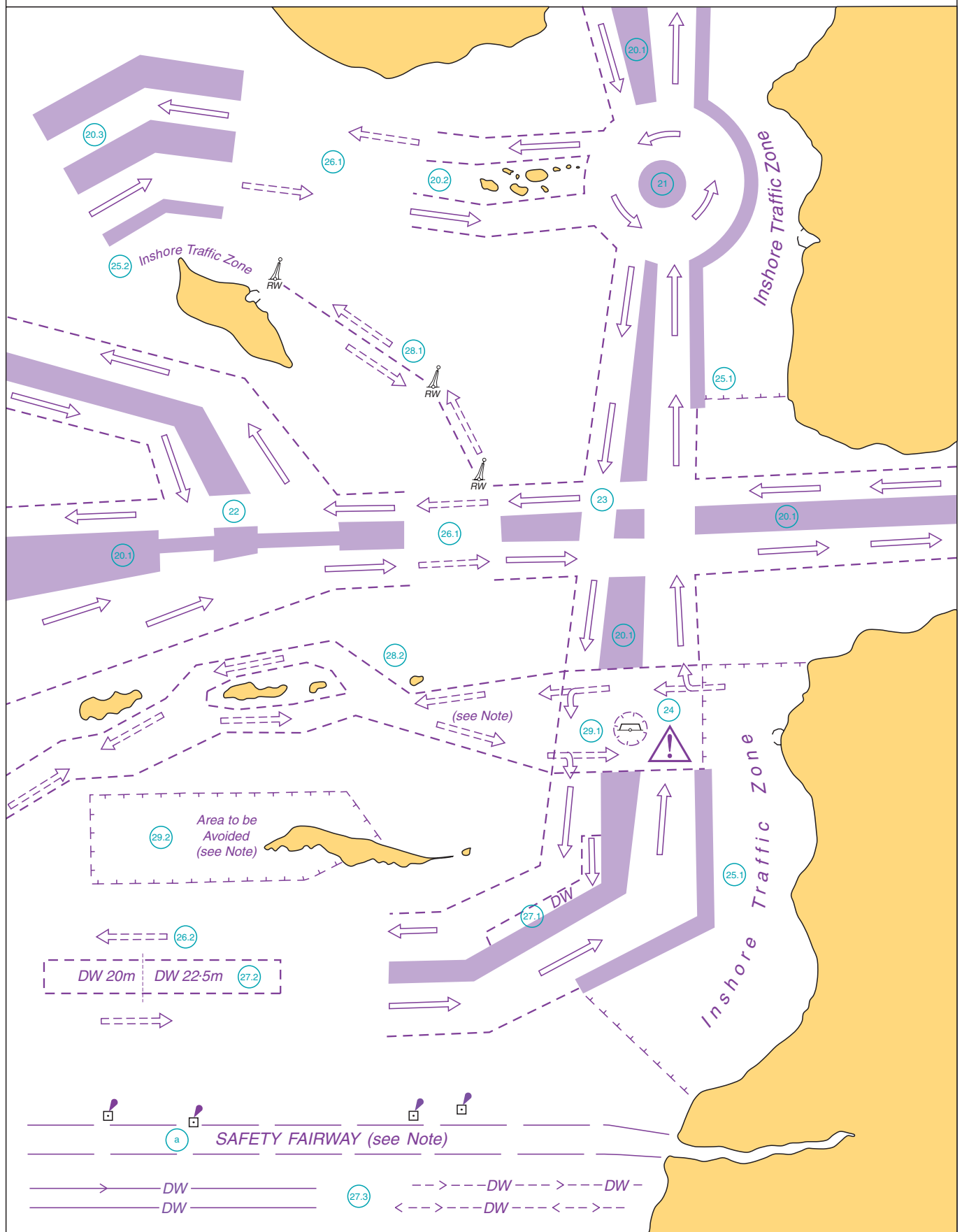
Tracks Marked by Lights → P		Leading Beacons → Q	Tracks	
1	270-5° 2 Bns ≠ 270-5°	Leading line (≠ means "in line", the continuous line is the track to be followed)	Bns in Line 270°30' Ldg Bns 270-5° 270-5°	433.1 433.2 433.3
2	270-5° Island open of Headland 270-5°	Transit (other than leading line), Clearing line	Bns in line 270-5°	433.4 433.5
3	090°-270°	Recommended track based on a system of fixed marks		434.1 434.2
4	090°-270°	Recommended track not based on a system of fixed marks	DW 270°	434.1 434.2
5.1	DW (see Note)	One-way track and DW track based on a system of fixed marks		432.3
5.2	270° DW	One-way track and DW track not based on a system of fixed marks		
6	7.3m 7.3m	Recommended track with maximum authorised draught		432.4 434.3 434.4

Routeing Measures - Basic Symbols				
10		Established (mandatory) direction of traffic flow		435.1
11		Recommended direction of traffic flow		435.5
12		Separation line (large-scale, small-scale)		435.1 436.3
13		Separation zone		435.1 436.3
14		Limit of restricted routeing measure (e.g. Inshore Traffic Zone, Area to be Avoided)		435.1 436.3 439.2
15		Limit of routeing measure		435.1 436.3
16	Precautionary Area	Precautionary area		435.2
17	ASL (see Note)	Archipelagic Sea Lane; axis line and limit beyond which vessels shall not navigate	ASL (see Note)	435.10
18	FAIRWAY 7.3m FAIRWAY <7.3m>	Fairway, designated by regulatory authority; with minimum depth		

‡ The term 'recommended' in connection with tracks and routeing measures does not imply recommendation by the United Kingdom Hydrographic Office. It is usually by a regulatory authority, but may be established by precedent.

M Tracks, Routes

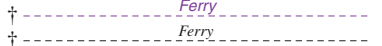
Examples of Routing Measures



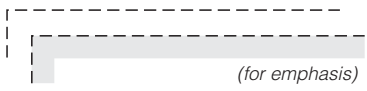
Examples of Routeing Measures (see diagram on page 34)		
	Traffic separation scheme (TSS), traffic separated by separation zone	435.1
	Traffic separation scheme, traffic separated by natural obstructions	435.1
	Traffic separation scheme, with outer separation zone, separating traffic using scheme from traffic not using it	435.1
	Traffic separation scheme, roundabout	435.1
	Traffic separation scheme with "crossing gates"	435.1
	Traffic separation schemes crossing, without designated precautionary area	435.1
	Precautionary area	435.2
	Inshore traffic zone (ITZ), with defined end limits	435.1
	Inshore traffic zone, without defined end limits	435.1
+ 	Recommended direction of traffic flow, between traffic separation schemes	435.5
+ 	Recommended direction of traffic flow, for ships not needing a deep water route	435.5
	Deep water route (DW), as part of one-way traffic lane	435.3
	Two-way deep water route, with minimum depth stated	435.3
	Deep water route, centre line shown as recommended one-way or two-way track	435.3
+ 	Recommended route (often marked by centre line buoys)	435.4
	Two-way route with one-way sections	435.6
	Area to be avoided (ATBA), around navigational aid	435.7
	Area to be avoided, because of danger of stranding	435.7
	Safety fairway	432.2
+ The term 'recommended' in connection with tracks and routeing measures does not imply recommendation by the United Kingdom Hydrographic Office. It is usually by a regulatory authority, but may be established by precedent.		

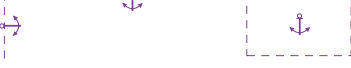
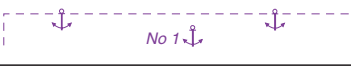
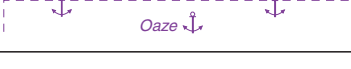
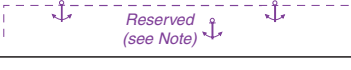
Radar Surveillance System				
30		Radar surveillance station		487 487.3
31		Radar range		487.1
32.1		Radar reference line		487.2
32.2		Radar reference line coinciding with a leading line		

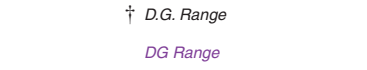
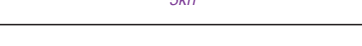
Radio Reporting				
40.1		Radio calling-in point, way point, or reporting point (with designation, if any) showing direction(s) of vessel movement		488
40.2		Radio reporting line (with designation, if any) showing direction(s) of vessel movement		488.1

Ferries				
50		Ferry		438.1
51		Cable Ferry		438.2

N Areas, Limits

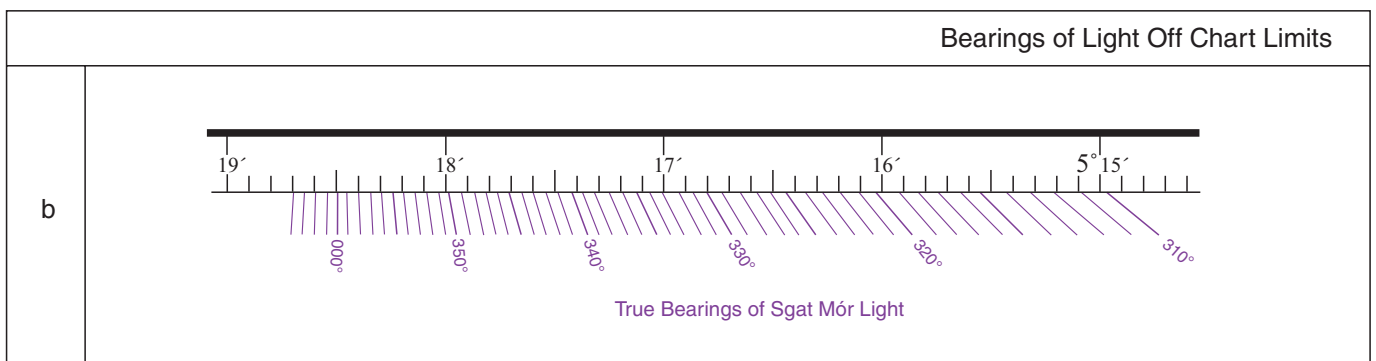
General Dredged and Swept Areas → I Submarine Cables, Submarine Pipelines → L Tracks Routes → M				
1.1		Maritime limit in general, usually implying permanent physical obstructions		439.1 439.6
1.2		Maritime limit in general, usually implying no permanent physical obstructions		
2.1		Limit of restricted area		439.2 439.3 439.6 441.6
2.2		Limit of area into which entry is prohibited		

Anchorages, Anchorage Areas				
10		Reported anchorage (no defined limits)		431.1
11.1	  	Anchor berths		431.2
11.2	  	Anchor berths with swinging circle shown		
12.1		Anchorage area in general		431.3
12.2		Numbered anchorage area		
12.3		Named anchorage area		
12.4		Deep water anchorage area, anchorage area for deep-draught vessels		
12.5		Tanker anchorage area. This symbol may be adapted for other types of vessel, e.g. small craft		
12.6		Anchorage area for periods up to 24 hours		
12.7		Explosives anchorage area		
12.8		Quarantine anchorage area		
12.9		Reserved anchorage area		
13		Seaplane operating area		449.6
14		Anchorage for seaplanes		449.6

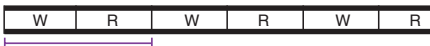
Restricted Areas				
20		Anchoring prohibited		431.4 439.3 439.4
21		Fishing prohibited		439.3 439.4
22	Example 	Environmentally Sensitive Sea Areas: Limit of marine reserve, national park, non-specific nature reserve		437.3 437.6 437.7
	Examples 	Bird sanctuary, seal sanctuary (other animal silhouettes may be used for specialized areas)		
		Particularly Sensitive Sea Area (coloured tint band may vary in width between 1 and 5mm)		
23.1		Explosives dumping ground		442.1 442.2 442.3 442.4
23.2		Explosives dumping ground (disused)		
24		Dumping ground for chemical waste		442.1 442.2 442.3
25		Degaussing range		448.1 448.2
26		Historic wreck and restricted area		449.5
27		Maximum speed		430.2
a		Seabed operations dangerous/prohibited		
b		Diving prohibited		

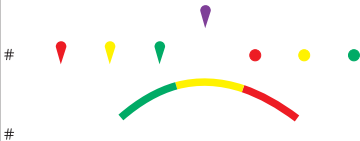
Military Practice Areas				
30		Firing practice area		441.1 441.2 441.3
31		Military restricted area into which entry is prohibited		441.6
32		Mine-laying (and counter-measure) practice area		441.4
33		Submarine transit lane and exercise area		441.5
34		Minefield		441.8

Beacons → Q				Light Structures, Major Floating Lights		
1	 	Lt	LtHo	Major light, minor light ‡, light, lighthouse		470.5
2				Lighted offshore platform		445.2
3	 	BnTr		Lighted beacon tower ‡	 	456.4 457.1 457.2
4	   		Bn	Lighted beacon ‡ On smaller scale charts, where navigation within recognition range of the daymark is unlikely, lighted beacons are charted solely as lights	   	457.1 457.2
5	 		Bn	Lighted buoyant beacon, resilient beacon ‡		459.1 459.2
6				Major floating light (light vessel, major light float, Large Automatic Navigational Buoy (LANBY))	  	462.9 474
a				Navigation lights on landmarks or other structures	   	
‡ Minor lights, fixed and floating, usually conform to IALA Maritime Buoyage System characteristics						



P Lights

Light Characters			Light Characters on Light Buoys → Q		471.2
	Abbreviation		Class of Light	Illustration	Period shown 
	International	National			
10.1	F		Fixed		
10.2	Occulting (total duration of light longer than total duration of darkness)				
	Oc	† Occ	Single-occulting		
	Oc(2) Example	† GpOcc(2) Example	Group-occulting		
	Oc(2+3) Example	† GpOcc(2+3) Example	Composite group-occulting		
10.3	Isophase (duration of light and darkness equal)				
	Iso		Isophase		
10.4	Flashing (total duration of light shorter than total duration of darkness)				
	Fl		Single-flashing		
	Fl(3) Example	† GpFl(3) Example	Group-flashing		
	Fl(2+1) Example	† GpFl(2+1) Example	Composite group-flashing		
10.5	LFI		Long-flashing (flash 2s or longer)		
10.6	Quick (repetition rate of 50 to 79 - usually either 50 or 60 - flashes per minute)				
	Q	† QkFl	Continuous quick		
	Q(3) Example	† QkFl(3) Example	Group quick		
	IQ	† IntQkFl	Interrupted quick		
10.7	Very quick (repetition rate of 80 to 159 - usually either 100 or 120 - flashes per minute)				
	VQ	† VQkFl	Continuous very quick		
	VQ(3) Example	† VQkFl(3) Example	Group very quick		
	IVQ	† IntVQkFl	Interrupted very quick		
10.8	Ultra quick (repetition rate of 160 or more - usually 240 to 300 - flashes per minute)				
	UQ		Continuous ultra quick		
	IUQ		Interrupted ultra quick		
10.9	Mo(K) Example		Morse Code		
10.10	FFI		Fixed and flashing		
10.11	Al.WR Example	† Alt.WR Example	Alternating		

Colours of Lights and Marks				
11.1	W	White (for lights, only on sector and alternating lights)		450.2 450.3 470.4 470.6 471.4 475.1
11.2	R	Red		
11.3	G	Green		
11.4	Bu	Blue	†	Bl
11.5	Vi	Violet		
11.6	Y	Yellow		
11.7	Y	# Or	†	Or
11.8	Y	# Am		
			Colours of lights shown on: standard charts on multicoloured charts on multicoloured charts at sector lights	

Period				
12	90s Examples	2.5s	Period in seconds and tenths of a second	† 90sec 471.5

Plane of Reference for Heights → H		Tidal Levels → H		Elevation
13	12m Example	Elevation of light given in metres	On fathoms charts, the elevation of a light is given in feet e.g. 40ft	471.6

Range				
Note: Charted ranges are nominal ranges given in sea miles				
14	15M Example	Light with single range		471.7 471.9 475.5
	15/10M Example	Light with two different ranges	† 15,10M	
	15-7M Example	Light with three or more ranges	† 15,10,7M	

Disposition				
15	(hor)	horizontally disposed	† (horl.)	471.8
	(vert)	vertically disposed	† (vertl.)	471.8

Example of a full Light Description 471.9				
16	Example of a light description on a metric chart using international abbreviations: ★ FI(3)WRG.15s13m7-5M FI(3) Class or character of light: in this example a group-flashing light, regularly repeating a group of three flashes. WRG. Colours of light: white, red and green, exhibiting the different colours in defined sectors. 15s Period of light in seconds, i.e., the time taken to exhibit one full sequence of 3 flashes and eclipses: 15 seconds. 13m Elevation of focal plane above height datum: 13 metres. 7-5M Luminous range in sea miles: the distance at which a light of a particular intensity can be seen in 'clear' visibility, taking no account of earth curvature. In those countries (eg United Kingdom) where the term 'clear' is defined as a meteorological visibility of 10 sea miles, the range may be termed "nominal". In this example the ranges of the colours are: white 7 miles, green 5 miles, red between 7 and 5 miles. Example of a light description on a fathoms chart using international abbreviations: ★ AI.FI.WR.30s110ft23/22M AI.FI. Class or character of light: in this example exhibiting single flashes of differing colours alternately. WR. Colours of light shown alternately: white and red all-round (ie, not a sector light). 30s Period of light in seconds, ie, the time taken to exhibit the sequence of two flashes and two eclipses: 30 seconds. 110ft Elevation of focal plane above height datum: 110 feet. 23/22M Range in sea miles. Until 1971 the lesser of geographical range (based on a height of eye of 15 feet) and luminous range was charted. Now, when the charts are corrected, luminous (or nominal) range is given. In this example the luminous ranges of the colours are: white 23 miles, red 22 miles. The geographical range can be found from the table in the Admiralty List of Lights (for the elevation of 110 feet, it would be 16 miles).			

P Lights

Lights marking Fairways	Note: Quoted bearings are always from seaward
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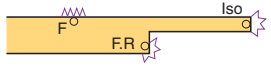
Leading Lights and Lights in line				
20.1		Leading lights with leading line (the firm line is the track to be followed) and arcs of visibility		433 433.1 433.2 433.3 475.1 475.6
20.2		Leading lights (≠ means "in line"; the firm line is the track to be followed; the light descriptions will be at the light stars or on the leading line, not usually both).		433.2 433.3 475.6
20.3		Leading lights on small-scale charts		433.1 475.6
21		Lights in line (marking the sides of a channel)		433.4 475.6
22	Rear Lt or Upper Lt	Rear or upper light	Upr.	470.7
23	Front Lt or Lower Lt	Front or lower light	Lr	470.7

Direction Lights				
30.1		Direction light with narrow sector and course to be followed, flanked by darkness or unintensified light	DirLt	471.3 471.9 475 475.1 475.5 475.7
30.2		Direction light with course to be followed, uncharted sector is flanked by darkness or unintensified light	DirLt	
30.3		Direction light with narrow fairway sector flanked by light sectors of different characters on standard charts		
30.4		Direction light with narrow fairway sector flanked by light sectors of different characters on multicoloured charts		
31		Moiré effect light (day and night), variable arrow mark. Arrows show when course alteration needed		475.8

Sector Lights					
40.1		Sector light on standard charts		475 475.1 475.2 475.5	
40.2		Sector light on multicoloured charts			
41.1		Sector lights on standard charts, the white sector limits marking the sides of the fairway		475 475.1 475.5 470.4	
41.2		Sector lights on multicoloured charts, the white sector limits marking the sides of the fairway			
42		Main light visible all-round with red subsidiary light seen over danger		471.8 475.4	
43		All-round light with obscured sector		475.3	
44		Light with arc of visibility deliberately restricted		475.3	
45		Light with faint sector		475.3	
46		Light with intensified sector		475.5	
C		Light with unintensified sector			

P Lights

Lights with limited Times of Exhibition				
50	 F.R(occas)	Lights exhibited only when specially needed (e.g. for fishing vessels, ferries) and some private lights	† (fishg.) † (Priv.) † (occasl.)	473.2
51	 Fl.10s40m27M (F.37m11M Day)	Daytime light (charted only where the character shown by day differs from that shown at night)	†  Fl.10s40m27M (F.37m11M by Day)	473.4
52	 Q.WRG.5m10-3M (Fl.5s Fog)	Fog light (exhibited only in fog, or character changes in fog)	†  Q.WRG.5m10-3M Fl.5s (in Fog)	473.5
53	 Fl.5s(U)	Unwatched (unmanned) light with no standby or emergency arrangements		473.1
54	(temp)	Temporary	† (temp) † (tempy.)	
55	(exting)	Extinguished	† (extingd.)	
b		Synchronized (synchronous or sequential)	(sync) or (sync)	

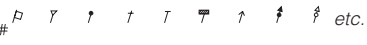
Special Lights Flare Stack (at Sea) → L Flare Stack (on Land) → E Signal Stations → T				
60	 AeroAl.Fl.WG.7-5s11M	Aero light (may be unreliable)		476.1
61.1	 AeroF.R.353m11M RADIO MAST (353)	Air obstruction light of high intensity		476.2
61.2	(89)  (R Lts)	Air obstruction lights of low intensity	† (Red Lt.)	476.2
62	Fog Det Lt	Fog detector light		477
63	 (illuminated)	Floodlit, floodlighting of a structure	(illum) † (lit)	478.2
64		Strip light		478.5
65	 F.R (priv)	Private light other than one exhibited occasionally	# ◉ Y.Lt # ◉ R.Lt † (Priv)	473.2

IALA Maritime Buoyage System, which includes Beacons → Q 130	Buoys and Beacons
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General				
1		Position of buoy or beacon		455.3 460.1 462.1

Abbreviations for colours (lights) → P 11			Colour of Buoys and Beacon Topmarks	
2	    	Single colour; green (G) and black (B)	 	450 450.1 450.2 450.3 464 464.1 464.2 464.3
3	     	Single colour other than green and black: red (R), yellow (Y), orange (Or)	  	
4	  	Multiple colours in horizontal bands: the colour sequence is from top to bottom	   	
5	   	Multiple colours in vertical or diagonal stripes; the darker colour is given first. In these examples, red(R), white(W), blue (Bu), yellow (Y) & black(B)	   	
6		Retroreflecting material may be fitted to some unlit marks. Charts do not usually show it. Black bands will appear dark blue under a spotlight	Refl	
a		Single colour other than green and black (non-IALA system: white (W) grey (Gy), blue (Bu))	     	464
b		Wreck buoy (not used in the IALA System)	   	
c		Chequered	   	

Marks with Fog Signals → R			Lighted Marks	
7	 	Lighted marks on standard charts (examples)	    	457.1 466 466.1
8	  	Lighted marks on multicoloured charts (examples)		

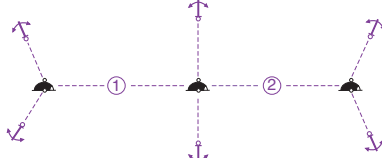
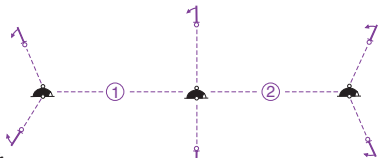
For Application of Topmarks within the IALA System → Q 130		Radar reflector → S	Topmarks and Radar Reflectors	
9		IALA System buoy topmarks (beacon topmarks shown upright)	Non-IALA System 	463 463.1
10		Beacon with topmark, colour, radar reflector and designation (example)	  	450 455.2 455.7
11		Buoy with topmark, colour, radar reflector and designation (example). Radar reflectors are not generally charted on IALA System buoys	  	460.3 460.6 465.1 465.2

Q Buoys, Beacons

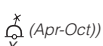
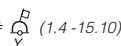
Buoys	Features Common to Beacons and Buoys → Q 1-11
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Shapes				
20	 	Conical buoy, nun buoy, ogival buoy	†    etc.	462.2
21	 	Can buoy, cylindrical buoy	†    etc.	462.3
22	 	Spherical buoy	†    etc.	462.4
23	  	Pillar buoy	†  	462.5
24		Spar buoy, spindle buoy	†     	462.6
25	 	Barrel buoy, tun buoy		462.7
26		Superbuoy. Superbuoys are very large buoys, e.g. a LANBY (P6) is a navigational aid mounted on a circular hull of about 5m diameter. Oil or gas installation buoys (L16) and ODAS buoys (Q58), of similar size, are shown by variations of the superbuoy symbol	† 	445.4 460.4 462.9 474

Minor Light Floats				
30	 Fl.G.3s Name	Light float as part of IALA System		462.8
31	 Fl.10s	Light float not part of IALA System	†     	462.8

Mooring Buoys		Oil or Gas Installation Buoy → L	Visitors' (Small Craft) Mooring → U	
40	 #  #  # 	Mooring buoy	#  #  #  † 	431.5
41	 Fl.Y.2-5s	Lighted mooring buoy (example)		431.5 466.1 466.2 466.3 466.4
42		Trot, mooring buoys with ground tackle and berth numbers		323.1 431.6
43		Mooring buoy with telegraphic or telephonic communications		431.5
44	Small Craft Moorings	Numerous moorings (example)		431.7

The symbols shown below are examples: shapes of buoys may differ; lateral or cardinal buoys may be used in some situations; the use of the cross topmark is optional.			Special Purpose Buoys	
50	 DZ	Firing danger area (Danger Zone) buoy		441.2
51	 Target	Target		
52	 Marker Ship	Marker Ship		
53	 Barge	Barge		
54	 DG	Degaussing Range buoy		448.2
55	 Cable	Cable buoy	 Cable	443.6
56		Spoil ground buoy		446.3
57		Buoy marking outfall		444.4
58	 ODAS	Data collection buoy (Ocean Data Acquisition System) of superbuoy size	 ODAS	462.9
59		Buoy marking wave recorder or current meter		
60		Seaplane anchorage buoy		
61		Buoy marking traffic separation scheme		
62		Buoy marking recreation zone		
d		Racing mark	 B	

Seasonal Buoys				
70	 (priv)	Buoy privately maintained (example)		
71	 (Apr-Oct)	Seasonal buoy (the example shows a yellow spherical buoy on station between April and October)	#  (1.4 - 15.10)  (occas)	460.5

Q Buoys, Beacons

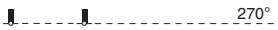
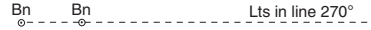
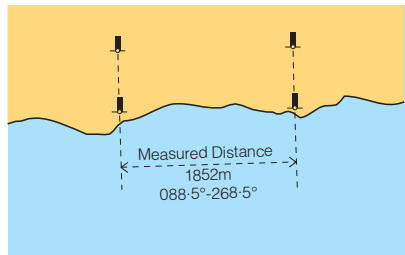
Beacons	<i>Lighted Beacons</i> → P	<i>Features Common to Beacons and Buoys</i> → Q 1-11
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General				
80	 	Beacon in general, characteristics unknown or chart scale too small to show	 #	455.5
81		Beacon with colour, no distinctive topmark (example)		455.4 456 456.3
82	  	Beacon with colour and topmark (examples)	    etc. †	455.4 456 463 463.1
83		Beacon on submerged rock (topmark and colours as appropriate)	 #	455.6
e		Beacon which does not conform with the IALA system	 (non-IALA)	

Minor Impermanent Marks usually in Drying Areas (Lateral Mark for Minor Channel)				<i>Minor Pile</i> → F
90		Stake, pole	 †	456.1
91	PORT HAND 	STARBOARD HAND 	 †	456.1
92	 †	 †		456.1

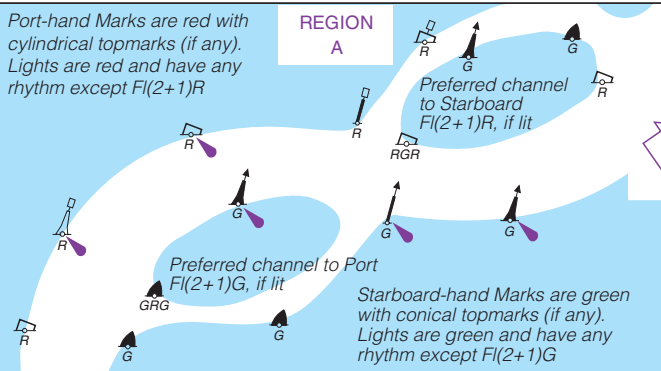
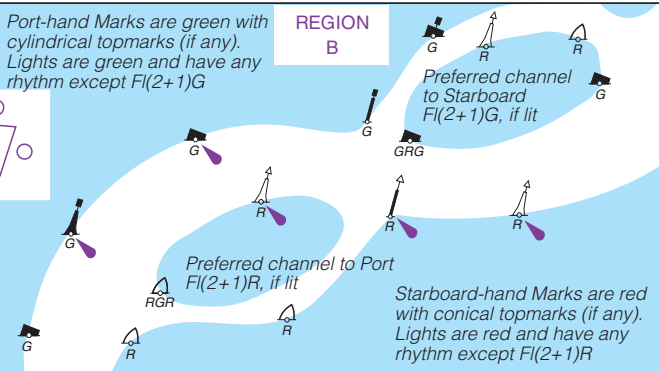
Minor Marks, usually on Land				<i>Landmarks</i> → E
100		Cairn	 †	456.2
101		Coloured or white mark (the colour may be indicated)		456.2
102.1	 	Coloured topmark (colour known or unknown) with function of a beacon	 	456.3
102.2	  	Painted boards with function of leading beacons		

Beacon Towers				
110	     	Beacons towers without and with topmarks and colours (examples)	  etc.	456.4
111	 #	Lattice beacon		456.4

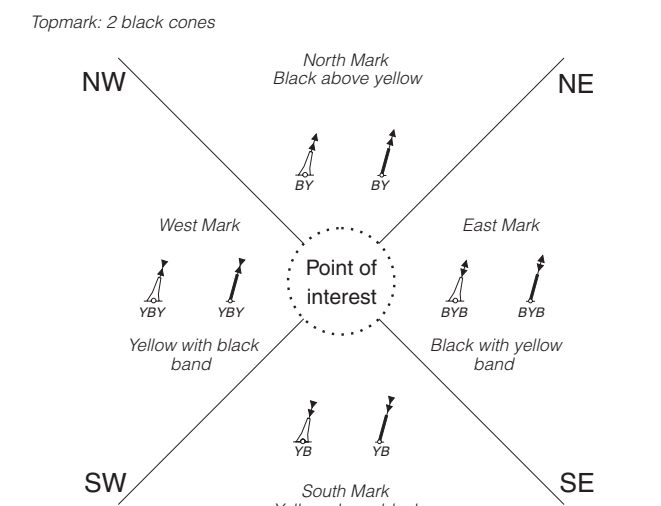
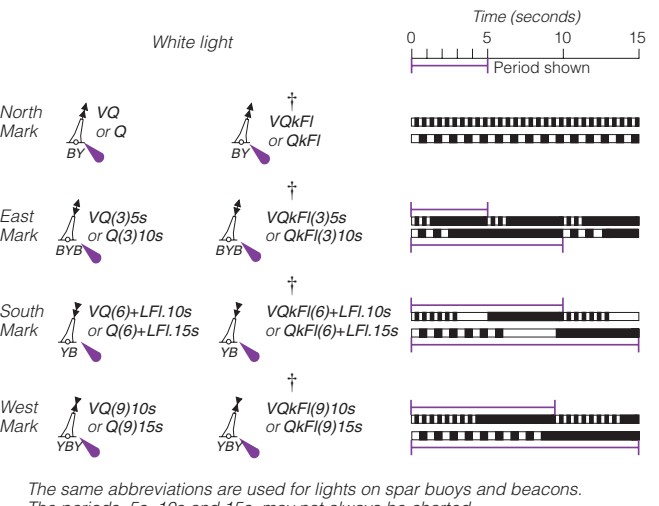
Leading Lines, Clearing Lines → M			Special Purpose Beacons	
Note: Topmarks and colours are shown where scale permits				
120		Leading beacons (the firm line is the track to be followed)		458
121		Beacons marking a clearing line or transit		458
122		Beacons marking measured distance with quoted bearings. The track is shown as a firm line if it is to be followed precisely		458
123		Cable landing beacon (example)		443.5 458
124	 #	Refuge beacon		456.4
125		Firing practice area beacons		
126		Notice board	NB	456.2

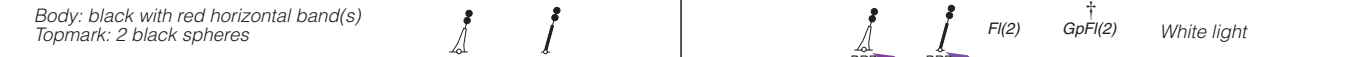
Q Buoys, Beacons

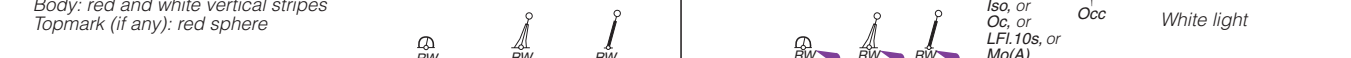
130	IALA Maritime Buoyage System	IALA International Association of Marine Aids to Navigation and Lighthouse Authorities	NP 735
Where in force, the IALA System applies to all fixed and floating marks except landfall lights, leading lights and marks, sectored lights and major floating lights. The standard buoy shapes are cylindrical (can)  , conical  , spherical  , pillar  , and spar  , but variations may occur, for example: minor light floats  In the illustrations below, only the standard buoy shapes are used. In the case of fixed beacons (lit or unlit) only the shape of the topmark is of navigational significance.			

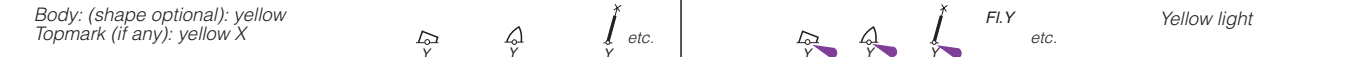
130.1 Lateral marks are generally for well-defined channels. There are two international Buoyage Regions - A and B - where Lateral marks differ.	
Port-hand Marks are red with cylindrical topmarks (if any). Lights are red and have any rhythm except $Fl(2+1)R$ Starboard-hand Marks are green with conical topmarks (if any). Lights are green and have any rhythm except $Fl(2+1)G$ Preferred channel to Port $Fl(2+1)G$, if lit Preferred channel to Starboard $Fl(2+1)R$, if lit REGION A 	Port-hand Marks are green with cylindrical topmarks (if any). Lights are green and have any rhythm except $Fl(2+1)G$ Starboard-hand Marks are red with conical topmarks (if any). Lights are red and have any rhythm except $Fl(2+1)R$ Preferred channel to Port $Fl(2+1)R$, if lit Preferred channel to Starboard $Fl(2+1)G$, if lit REGION B 
A preferred channel buoy may also be a pillar or a spar. All preferred channel marks have three horizontal bands of colour.	

130.2	 Symbol showing direction of buoyage where not obvious.	 Symbol showing direction of buoyage where not obvious, on multicoloured charts (red and green circles coloured as appropriate).
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130.3 Cardinal Marks indicating navigable water to the named side of the marks. Cardinal marks have the same meaning in Regions A and B	
UNLIT MARKS Topmark: 2 black cones North Mark Black above yellow West Mark Yellow with black band East Mark Black with yellow band South Mark Yellow above black Point of interest 	LIGHTED MARKS White light North Mark VQ or Q BY East Mark VQ(3)5s or Q(3)10s BYB South Mark VQ(6)+LFl.10s or Q(6)+LFl.15s YB West Mark VQ(9)10s or Q(9)15s YBY Time (seconds) 0 5 10 15 Period shown  The same abbreviations are used for lights on spar buoys and beacons. The periods, 5s, 10s and 15s, may not always be charted.

130.4	Isolated Danger Marks, stationed over dangers with navigable water around them. Body: black with red horizontal band(s) Topmark: 2 black spheres BRB BRB Fl(2) GpFl(2) White light 
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130.5	Safe Water Marks, such as mid-channel and landfall marks. Body: red and white vertical stripes Topmark (if any): red sphere RW RW RW Is, or Oc, or LFl.10s, or Mo(A) Occ White light 
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130.6	Special Marks, not primarily to assist navigation but to indicate special features. Body: (shape optional): yellow Topmark (if any): yellow X Y Y etc. Fl.Y etc. Yellow light 
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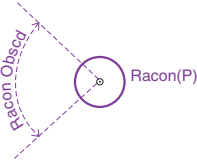
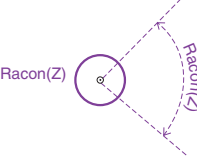
Fog Signals R

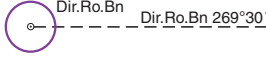
Fog Detector Light → P		Fog Light → P		General
1	  	Position of fog signal. Type of fog signal not stated		† Fog Sig 451 451.2 452.8

Types of Fog Signals, Abbreviations				
10	Explos	Explosive	† Gun	452.1
11	Dia	Diaphone		452.2
12	Siren	Siren		452.3
13	Horn	Horn (nautophone, reed, tyfon)	† Nauto † E.F. Horn † Tyfon † Reed	452.4
14	Bell	Bell		452.5
15	Whis	Whistle		452.6
16	Gong	Gong		452.7

Examples of Fog Signal Descriptions				
20	 Fl.3s70m29M Siren Mo(N)60s	Siren at a lighthouse, giving a long blast followed by a short one (N), repeated every 60 seconds		452.3 453.3
21	 Bell	Wave-actuated bell buoy. The provision of a legend indicating number of emissions, and sometimes the period, distinguishes automatic bell or whistle buoys from those actuated by waves		452.5 453 454.1
22	 Q(6)+LFl.15s Horn(1)15sWhis YB	Light buoy, with horn giving a single blast every 15 seconds, in conjunction with a wave-actuated whistle	Reserve fog signals are fitted to certain buoys Only those actuated by waves are charted	452.4 453.1 454.3
‡ The Fog Signal symbol (R1) will usually be omitted when associated with another navigation aid (e.g. light or buoy) when a description of the signal is given				

S Radar, Radio, Satellite Navigation Systems

Radar	Radar Structures Forming Landmarks → E		Radar Surveillance Systems → M	
1	 Ra	Coast radar station providing range and bearing from station on request		485.1
2	 Ramark	Ramark, radar beacon transmitting continuously		486.1
3.1	 Racon(Z) (3cm)	Radar transponder beacon, with morse identification, responding within the 3cm (X) band	†  Racon(Z)	486.2 486.3
3.2	 Racon(Z) (10cm)	Radar transponder beacon, with morse identification, responding within the 10cm (S) band		486.3
3.3	 Racon(Z)	Radar transponder beacon, with morse identification, responding within the 3cm (X) and the 10cm (S) bands (or band unknown)	†  Racon(Z) (3 & 10cm)	
3.4	 Racon(P)	Radar transponder beacon with sector of obscured reception		486.4
	 Racon(Z)	Radar transponder beacon with sector of reception		
3.5	 Racons # 270	Leading radar transponder beacons (‡ and ‡ mean "in line")		486.5 433.3
	 Lts # 270 Racons # 270	Leading radar transponder beacons coincident with leading lights		
3.6	 Racon	Radar transponder beacons on floating marks (examples)		486.2
4		Radar reflector (not usually charted on IALA System buoys and buoyant beacons)	†	460.3 465
5		Radar conspicuous feature	†	485.2

Radio Structures Forming Landmarks → E		Radio Reporting (Calling-in or Way) Points → M		Radio
10		Non-directional marine or aeromarine radiobeacon		481.1 480.1
11		Directional radiobeacon with bearing line		481.2
		Directional radiobeacon coincident with leading lights		
12		Rotating pattern radiobeacon		481.1
13		Consol beacon		481.3
14		Radio direction-finding station		483
15		Coast radio station providing QTG service		484
16		Aeronautical radiobeacon		482
17.1		Automatic Identification System transmitter		489.1
17.2		Automatic Identification System transmitters on floating marks (examples)		489.1

Satellite Navigation Systems						
50	WGS	WGS72	WGS84	World Geodetic System, 1972 or 1984		201
<i>Note:</i> A note may be shown to indicate the shifts of latitude and longitude, to one, two or three decimal places of a minute, depending on the scale of the chart, which should be made to satellite-derived positions (which are referred to WGS84) to relate them to the chart. See Annual Notice to Mariners No. 19.						202
51	 DGPS			Station providing Differential Global Positioning System corrections		481.5

T Services

Pilotage				
1.1		Pilot boarding place, position of pilot cruising vessel	† Pilots	491.1 491.2 491.6
1.2		Pilot boarding place, position of pilot cruising vessel, with name (e.g. District, Port)		
1.3		Pilot boarding place, position of pilot cruising vessel, with note (e.g. Tanker, Disembarkation)		
1.4		Pilots transferred by helicopter		
2	■ Pilot lookout		Pilot office with Pilot lookout, Pilot lookout station	491.3
3	■ Pilots		Pilot office	491.4
4	Port Name (Pilots)		Port with pilotage service (boarding place not shown)	491.5

Coastguard, Rescue				
10	■ CG ○ CG ⚓ CG Coastguard station ■ CGFS 492 492.1 492.2			
11	■ CG ⚓ ○ CG ⚓ ⚓ CG ⚓ Coastguard station with Rescue station ■ CGFS ⚓ 493.3			
12	⚓ Rescue station, Lifeboat station, Rocket station ⚓ LB 493 493.1			
13	🚤 ⚓ ⚓ Lifeboat lying at a mooring 493.2			
14	Ref Refuge for shipwrecked mariners 456.4			

Stations				
20	⊙ SS	Signal station in general	† Sig Sta † Sig Stn	490.3
21	⊙ SS(INT)	Signal station showing International Port Traffic Signals		495.5
22	⊙ SS(Traffic)	Traffic signal station, Port entry and departure signals		495.1
23	⊙ SS(Port Control)	Port control signal station		495.1
24	⊙ SS(Lock)	Lock signal station		495.2
25.1	⊙ SS(Bridge)	Bridge passage signal station		495.3
25.2	 F. Traffic Sig	Bridge lights including traffic signals		495.4
26	⊙ SS	Distress signal station		497
27	⊙ SS	Telegraph station		497.1
28	⊙ SS(Storm)	Storm signal station	† Storm Sig † Stm. Sig. Sm.	494.1
29	⊙ SS(Weather)	Weather signal station, Wind signal station		494.1
30	⊙ SS(Ice)	Ice signal station		494.1
31	⊙ SS(Time)	Time signal station		494.2
32.1	 #	Tide scale or gauge	⊙ Tide gauge	496.1
32.2	⊙ Tide gauge	Automatically recording tide gauge		
33	⊙ SS(Tide)	Tide signal station		496.2
34	⊙ SS(Stream)	Tidal stream signal station		496.3
35	⊙ SS(Danger)	Danger signal station		490.1
36	⊙ SS(Firing)	Firing practice signal station		490.1

U Small Craft (Leisure) Facilities

Small Craft (Leisure) Facilities		Transport Features, Bridges →D Public Buildings, Cranes →F	Pilots, Coastguard, Rescue, Signal Stations →T	
1.1		Yacht harbour, Marina		320.2
1.2		Yacht berths without facilities		
2		Visitors' berth		
3		Visitors' mooring		
4		Yacht club, Sailing club		
5		Public slipway		
6		Boat hoist		
7		Public landing, Steps, Ladder		
8		Sailmaker		
9		Boatyard		
10		Public house, Inn		
11		Restaurant		
12		Chandler		
13		Provisions		
14		Bank, Bureau de change		
15		Physician, Doctor		
16		Pharmacy, Chemist		
17		Water tap		
18		Fuel station (Petrol, Diesel)		
19		Electricity		

Small Craft (Leisure) Facilities **U**

20		Bottled gas																																																																																	
21		Showers																																																																																	
22		Laundrette																																																																																	
23		Public toilets																																																																																	
24		Post box																																																																																	
25		Public telephone																																																																																	
26		Refuse bin																																																																																	
27		Public car park																																																																																	
28		Parking for boats and trailers																																																																																	
29		Caravan site																																																																																	
30		Camping site																																																																																	
31		Water police																																																																																	
32	MARINA FACILITIES <table><tr><th>HARBOUR / MARINA FACILITIES</th><th>Diesel</th><th>Petrol</th><th>Bottled Gas</th><th>Electricity</th><th>Holding Tank Disposal</th><th>Crane/Boat Hoist</th><th>Repairs</th><th>Scrubbing Berth</th><th>Launching Slip</th><th>Pontoon Berthing</th><th>Swinging Moorings</th><th>Chandlery</th><th>Laundrette</th><th>Showers</th><th>VHF Radio Channels</th><th>Telephone Area Code</th><th>Telephone Number</th><th>Fax Number</th></tr><tr><td>FALMOUTH - Falmouth Visitors Yacht Haven</td><td></td><td></td><td></td><td>●</td><td></td><td></td><td></td><td></td><td></td><td></td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>12</td><td>+44 (0) 1326</td><td>312285</td><td>211352</td></tr><tr><td>- Mylor Yacht Harbour</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>●</td><td>80/M</td><td>+44 (0) 1326</td><td>372121</td><td>372120</td></tr><tr><td>HELFORD - Helford Moorings Officer</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>●</td><td></td><td>●</td><td>●</td><td>-</td><td>+44 (0) 1326</td><td>250749</td><td>-</td></tr></table> <i>Marina Facilities may be tabulated on harbour charts and large scale coastal charts.</i> ● indicates that the facility is available at the marina itself. Laundrettes etc. located outside the marina are not included. The facilities may not be available outside normal working hours. All marinas have water, toilets and rubbish disposal.				HARBOUR / MARINA FACILITIES	Diesel	Petrol	Bottled Gas	Electricity	Holding Tank Disposal	Crane/Boat Hoist	Repairs	Scrubbing Berth	Launching Slip	Pontoon Berthing	Swinging Moorings	Chandlery	Laundrette	Showers	VHF Radio Channels	Telephone Area Code	Telephone Number	Fax Number	FALMOUTH - Falmouth Visitors Yacht Haven				●							●	●	●	●	●	12	+44 (0) 1326	312285	211352	- Mylor Yacht Harbour	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	80/M	+44 (0) 1326	372121	372120	HELFORD - Helford Moorings Officer												●		●	●	-	+44 (0) 1326	250749	-
HARBOUR / MARINA FACILITIES	Diesel	Petrol	Bottled Gas	Electricity	Holding Tank Disposal	Crane/Boat Hoist	Repairs	Scrubbing Berth	Launching Slip	Pontoon Berthing	Swinging Moorings	Chandlery	Laundrette	Showers	VHF Radio Channels	Telephone Area Code	Telephone Number	Fax Number																																																																	
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HELFORD - Helford Moorings Officer												●		●	●	-	+44 (0) 1326	250749	-																																																																
	Corrections Information on small craft (leisure) facilities will be updated as charts are revised by New Edition. The United Kingdom Hydrographic Office would be pleased to receive reports of alterations or additions to small craft facilities.																																																																																		

V Abbreviations of Principal Non-English Terms

Glossaries of non-English terms will be found in the volumes of Admiralty Sailing Directions.

On metric Admiralty charts, non-English terms are generally given in full wherever space and information permits. Where abbreviations are used on metric charts they accord with the following list, apart from those on charts published before 1980 where full stops are omitted. Obsolescent forms of abbreviations may also be found on these charts and on reproductions of other nations' charts.

CURRENT FORM	OBSOLESCE FORM(S)	TERM	ENGLISH MEANING	CURRENT FORM	OBSOLESCE FORM(S)	TERM	ENGLISH MEANING
ALBANIAN				FRENCH (<i>continued</i>)			
	K	Kodër, Kodra	<i>Hill</i>	F.	Fl	Fleuve	<i>Large river</i>
ARABIC				Ft.	F ^t	Fort	<i>Fort</i>
				G.		Golfe	<i>Gulf</i>
	Djeb, Dj	Djebel	<i>Mountain, Hill</i>		Gd, G ^d , Gde, G ^{de}	Grand, Grande	<i>Great</i>
Geb.	G	Gebel	<i>Mountain, Hill</i>	Ht.Fd.	H.F., Ht fd, H ^{fd} , H ^t fond	Haut-fond	<i>Shoal</i>
J.	Jab, J ^l	Jabal, Jibāl, Jebel	<i>Mountain(s), Hill(s)</i>				
Jaz.	Jazt	Jazīrat, Jazā'ir Jazīreh	<i>Island(s), Peninsula</i>	Î.	I, I ^t	Île, îles, îlot	<i>Island(s), Islet</i>
Jeb.	J, J ^l	Jebel	<i>Mountain, Hill</i>	L.		Lac	<i>Lake</i>
Jez.	Jez ^t	Jezīrat	<i>Island, Peninsula</i>		Mn, M ⁱⁿ	Moulin	<i>Mill</i>
Kh.	K	Khawr, Khōr	<i>Inlet, Channel</i>	Mlg.	Mge, M ^{age} , Mou	Mouillage	<i>Anchorage</i>
	Si, Si	Sidi	<i>Tomb</i>	Mt.	M ^t	Mont	<i>Mount, Mountain</i>
W.		Wād, Wādi	<i>Valley, River, River bed</i>		N.D.	Notre Dame	<i>Our Lady</i>
CHINESE				P.		Port	<i>Port</i>
					Pet, P ^{it} , Pite, P ^t	Petit, Petite	<i>Small</i>
Chg.	Ch ^g	Chiang	<i>River, Shoal, Harbour, Inlet, Channel, Sound</i>	Pit.	Pn, P ^{on}	Piton	<i>Peak</i>
DANISH				Pl.		Plage	<i>Beach</i>
				Plat.	Pla, Plat ^u	Plateau	<i>Tableland, Sunken flat</i>
B.		Bugt	<i>Bay, Bight</i>	Pte.	P ^{te}	Pointe	<i>Point</i>
Bk.	B ^k	Banke	<i>Bank</i>	Qu.	Q	Quai	<i>Quay</i>
Fj.	F ^d	Fjord	<i>Inlet</i>	R.	Rau, Riv, R ^{au}	Rivière, Ruisseau	<i>River, Stream</i>
Gr.	Grd, Gr ^d , G ^d	Grund	<i>Shoal</i>		Rav, R ^{ne}	Ravine	<i>Ravine</i>
H.	Hm, H ^m , Hne, H ^{ne}	Holm, Holmene	<i>Islet(s)</i>	Rf.		Récif	<i>Reef</i>
Hd.	H ^d	Hoved	<i>Headland</i>	Roc.	Re, R ^e , Rer, R ^{er}	Roche, Rocher	<i>Rock</i>
Hn.	H ⁿ	Havn, Havnen	<i>Harbour</i>	S.	St, S ^t , Ste, S ^{te}	Saint, Sainte	<i>Saint, Holy</i>
Ll.		Lille	<i>Little</i>		Som.	Sommet	<i>Summit</i>
N.		Nord, Nordre	<i>North, Northern</i>	Tr.	T ^r	Tour	<i>Tower</i>
Ø.		Øst, Østre	<i>East, Eastern</i>		Vi, V ^x	Vieux, Vieil, Vielle	<i>Old</i>
Øy.	Øne, Ø ^{ne} , Öne, Ö ^{ne}	Øyane, Øyene, Öyane	<i>Islands</i>	GAELIC			
		Öyene		Bo.		Bogha	<i>Below water rock</i>
Pt.	P ^t	Pynt	<i>Point</i>	Eil.	E, En, E ⁿ	Eilean, Eileanan	<i>Island(s), Islet(s)</i>
S.		Sønder, Søndre	<i>South, Southern</i>	Ru.	R ^u	Rubha	<i>Point</i>
Sd.	S ^d	Sund, Sundet	<i>Sound</i>	Sg.	Sgr, Sg ^r	Sgeir	<i>Rock</i>
Sk.	Skr, Sk ^r	Skær, Skjær	<i>Rock above water</i>	GERMAN			
St.		Stor	<i>Great</i>	B.		Bucht	<i>Bay</i>
V.		Vest, Vestre	<i>West</i>	Bg.	B ^g	Berg	<i>Mountain</i>
DUTCH				Gr.	Grd, G rd , G ^d	Grund	<i>Shoal</i>
				Hn.	H ⁿ	Hafen	<i>Harbour</i>
B.	B ⁱ	Baai	<i>Bay</i>	K.		Kap	<i>Cape</i>
Bg.	B ^g	Berg	<i>Mountain</i>	Rf.	R ^f	Riff	<i>Reef</i>
Bk.	B ^k	Bank	<i>Bank</i>		Schl	Schloss	<i>Castle</i>
Eil.	Eiln, Eil ⁿ	Eiland, Eilanden	<i>Island(s)</i>	GREEK			
G.		Golf	<i>Gulf</i>	Ág., Ag.	Áy., Ay.	Ágios, Ágia	<i>Saint, Holy</i>
	Gt, Grt, G ^t , G ^{rt}	Groot, Groote	<i>Great</i>	Ágk.	Ang.	Agkáli	<i>Bight, Open bay</i>
H.		Hoek	<i>Cape, Hook</i>	Ágky.	Angir., Ang	Agkyrovólio	<i>Anchorage</i>
Pt.	P ^t	Punt	<i>Point</i>	Ák., Ak.		Ákra, Akrotirio	<i>Cape</i>
R.		Rivier	<i>River</i>	Kól.	Kol	Kólpos	<i>Gulf</i>
Rf.	R ^f	Rif	<i>Reef</i>	Lim.		Limín, Liménas	<i>Harbour</i>
Str.	Strn, St ^r , St ⁿ	Straat, Straten	<i>Strait(s)</i>	N.		Nísos, Nísoi	<i>Island(s)</i>
FINNISH				N.	N	Nísida, Nisídes	<i>Islet(s)</i>
				Ó.	O	Órmos	<i>Bay</i>
K.		Kari, Kallio, Kivi	<i>Rock, Reef</i>	Or.		Ormískos	<i>Cove</i>
Lu.		Luoto, Luodet	<i>Rock(s)</i>	Ór.	Or	Óros, Óroi	<i>Mountain(s)</i>
Ma.		Matala	<i>Shoal</i>	Pot.		Potamós	<i>River</i>
	P	Pieni, Pikku	<i>Small</i>		Prof	Profitis	<i>Prophet</i>
Sa.	S ^a	Saari, Saaret	<i>Island(s)</i>	Sk.		Skópelos, Skópeloí	<i>Reef(s), Drying rock(s)</i>
Tr.	T ^r	Torni	<i>Tower</i>				<i>Rocky islets</i>
FRENCH				Vrach.	Vrak	Vrachonisída, Vrachonisídes	
				Vrach.	Vrák	Vráchos, Vráchol	<i>Rock(s)</i>
B.	B ^e	Baie	<i>Bay</i>	Ýf.	Íf.	Ýfalos, Ýfaloi	<i>Reef(s)</i>
Bas.	B	Basse	<i>Shoal</i>	ICELANDIC			
Bc.	B ^c	Banc	<i>Bank</i>	Fj.	Fjr, F ^{dr}	Fjörður	<i>Fjord</i>
	Bssn, Bn, B ⁿ	Bassin	<i>Basin</i>	Gr.		Grunn	<i>Shoal</i>
C.		Cap	<i>Cape</i>				
Cal.	Ch ^{al} , Chen	Chenal	<i>Channel</i>				
Ch.	Chap, Chap ^e	Chapelle	<i>Chapel</i>				
Chât.	Chât ^u , Ch ^{au}	Château	<i>Castle</i>				

Abbreviations of Principal Non-English Terms V

CURRENT FORM	OBSOLESCENT FORM(S)	TERM	ENGLISH MEANING	CURRENT FORM	OBSOLESCENT FORM(S)	TERM	ENGLISH MEANING
INDONESIAN and MALAY				JAPANESE (<i>continued</i>)			
A.		Air, Ajer, Ayer	<i>Stream</i>	J.	Ja	Jima	<i>Island</i>
B.	Bu, B ^u	Batu	<i>Rock</i>	K.	Ka, K ^a	Kawa	<i>River</i>
Bat.	Btg, B ^{tg}	Batang	<i>River</i>		Kaik, Ko, K ^o	Kaikyō	<i>Strait</i>
	Bdr, B ^{dr}	Bandar, Bendar	<i>Port</i>	M.	Mki, M ^{ki} , M ⁱ	Misaki	<i>Cape</i>
	Br, B ^r	Besar	<i>Great</i>		Ma, M ^a	Mura	<i>Village</i>
Buk.	Bt, B ^t	Bukit	<i>Hill</i>		Mi, M ⁱ	Machi	<i>Town</i>
G.	Gg, G ^g	Gosong, Gosung, Gusong, Gusung	<i>Shoal, Reef, Islet</i>	S.	Si, S ⁱ	Saki	<i>Cape, Point</i>
Gun.	Gg, G ^g	Gunong, Gunung	<i>Mountain</i>	Sh.	Sa, S ^a	Shima	<i>Island</i>
K.	Ki, K ⁱ	Kali	<i>River</i>		Sn, S ⁿ	San	<i>Mountain</i>
K.	Kr	Kroeng, Krueng	<i>River</i>		So, S ^o	Seto	<i>Strait</i>
Kam.	Kg, K ^g	Kampong, Kampung	<i>Village</i>	Su.	Sdo, S ^{do}	Suidō	<i>Channel</i>
Kar.	Kg, K ^g	Karang	<i>Coral reef, Reef</i>		Te, T ^e	Take	<i>Hill, Mountain</i>
Kep.	Kpn, K ^{pn}	Kepulauan	<i>Archipelago</i>		Ya, Y ^a	Yama	<i>Mountain</i>
Kl.	K ⁱ	Kachil, Kechil, Ketjil, Kecil	<i>Small</i>	Z.	Z ⁱ	Zaki	<i>Cape, Point</i>
					Z ⁿ	Zan	<i>Mountain</i>
Ku.	Kla, K ^{la}	Kuala	<i>River mouth</i>	MALAY (see INDONESIAN)			
Lab.	Labn, Lab ⁿ	Labuan, Labuhan	<i>Anchorage, Harbour</i>	NORWEGIAN			
Mu.	Ma, M ^a	Muara	<i>River mouth</i>	B.	B, B ^{kt}	Bukt, Bukta	<i>Bay, Bight</i>
P.	Pu, P ^u , P ^o	Pulau, Pulu, Pulo	<i>Island</i>	Bg.	B ^g	Berg, Bierg, Bjerg	<i>Mountain, Hill</i>
Peg.		Pegunungan	<i>Mountain range</i>	Fd.	F ^d , Fj	Fjord, Fjorden	<i>Fjord</i>
Pel.	Pln, P ^{ln}	Pelabuhan, Pelabuhan	<i>Roadstead, Anchorage</i>	Fjel.	Fj	Fjell, Fjellet, Fjeld, Fjeldet	<i>Mountain</i>
P.-P.	P.P.	Pulau-pulau	<i>Group of islands</i>	Fl.	F ^{lne} , F ^{lne}	Flu, Flua, Fluen, Fluane, Fluene	<i>Below water rock(s)</i>
	Prt, P ^{rt}	Parit	<i>Stream, Canal, Ditch</i>	Gr.	Gr ^{ne} , Gr ^{ne}	Grunn, Grunnen, Grunnane	<i>Shoal(s)</i>
S.	Si, S ⁱ	Sungai, Sungei	<i>River</i>	H.	Hm, H ^m , Hne, H ^{ne}	Holm, Holmen, Holmane	<i>Islet(s)</i>
Sel.	Slt, S ^{lt}	Selat	<i>Strait</i>	Hn.	H ⁿ	Hamn, Havn	<i>Harbour</i>
T.	Tg, T ^g	Tandjong, Tandjung, Tanjong, Tanjung Tanjing	<i>Cape</i>	in.	In ^r , I	Indre, Inre, Inste	<i>Inner</i>
Tel.	Tal, Tk, T ^k	Taluk, Telok, Teluk	<i>Bay</i>	L.		Lille, Liten, Littla, Little	<i>Little</i>
U.	Ug, U ^g	Udjung, Ujung	<i>Cape</i>	Lag.	La, L ^a	Laguna	<i>Lagoon</i>
W.		Wai	<i>River</i>	N.		Nord, Nordre	<i>North, Northern</i>
ITALIAN				Ø.	Ö	Øst, Østre, Öst, Östre	<i>East, Eastern</i>
Anc.		Ancoraggio	<i>Anchorage</i>	Od.	O	Odde, Odden	<i>Point</i>
B.		Baia	<i>Bay</i>	Øy.	Ø, Ö, O	Øy, Øya, Öy, Öya	<i>Island</i>
Banch.	Bna, B ^{na}	Banchina	<i>Quay</i>	Øy.	Øne, Ø ^{ne} , Öne, Ö ^{ne}	Øyane, Øyene, Öyane, Öyene	<i>Islands</i>
Bco.	B ^{co}	Banco	<i>Bank</i>	Pt.	P ^t	Pynt, Pynten	<i>Point</i>
C.		Capo	<i>Cape</i>	S.		Syd, Søre, Søndre	<i>South, Southern</i>
Cal.		Calata	<i>Wharf</i>	Sd.	S ^d	Sund, Sundet	<i>Sound</i>
Can.		Canale	<i>Channel</i>	Sk.	Skr, Sk ^r	Skjær, Skjer, Skjeret	<i>Rock above water</i>
Cas.		Castello	<i>Castle</i>	Sk.	Skne, Sk ^{ne}	Skjærane, Skjærane	<i>Rocks above water</i>
F.		Fiume	<i>River</i>	St.		Stor, Stora, Store	<i>Great</i>
Fte.	F ^{te}	Forte	<i>Fort</i>	Tar.	Tn, T ⁿ	Taren	<i>Below water rock</i>
G.		Golfo	<i>Gulf</i>	V.		Vest, Vestre	<i>West</i>
	Gde, G ^{de}	Grande	<i>Great</i>	Vag.	Vg, V ^g	Våg, Vågen	<i>Bay, Cove</i>
I.	I ^a , I ^e	Isola, Isole	<i>Island(s)</i>	Vd.	V ^d , V ^d	Vand	<i>Lake</i>
I.	I ^{to} , I ^{ti}	Isolotto, Isolotti	<i>Islet(s)</i>	Vik.	Vk, V ^k	Vik, Vika, Viken	<i>Bay, Inlet</i>
L.		Lago	<i>Lake</i>	Vnn, V ⁿⁿ	V ⁿⁿ , V ⁿⁿ	Vann, Vatn	<i>Lake</i>
Lag.	La, L ^e	Laguna	<i>Lagoon</i>	Y.	Y ^t	Ytre, Ytter, Yttre	<i>Outer</i>
	Mda, Mad, Mad ^a , Mad ^{na}	Madonna	<i>Our Lady</i>	PERSIAN			
Mte.	M ^{te}	Monte	<i>Mount, Mountain</i>	B.		Bandar	<i>Harbour</i>
P.	Pto, P ^{to}	Porto	<i>Small port</i>	Jab.		Jabal	<i>Mountain, Hill</i>
P.	Portlo, Port ^{lo}	Porticciolo	<i>Small port</i>	Jaz.	Jazh, Jaz ^h	Jazireh	<i>Island, Peninsu/a</i>
Pco.	P ^{co}	Picco	<i>Peak</i>	Kh.	K	Khawr	<i>Inlet, Channel</i>
Pog.	Pgio, P ^{gio}	Poggio	<i>Mound, Small hill</i>	R.		Rūd	<i>River</i>
Pta.	pta	Punta	<i>Point, Summit</i>	POLISH			
	Pte, P ^{te}	Ponte	<i>Bridge</i>	Jez.		Jezioro	<i>Lake</i>
	Pzo, P ^{zo}	Pizzo	<i>Peak</i>	Kan.		Kanal	<i>Channel</i>
S.	Sto, S ^{to} , Sta, S ^{ta}	San, Santo, Santa	<i>Saint, Ho/y</i>	Miel.		Mielizna	<i>Shoal</i>
S.	SS, S.S.	Santi	<i>Saints</i>	R.		Rzek	<i>River</i>
Scog.	Scog, Sci, Sc, Sc ⁱ	Scoglio, Scogli	<i>Rock(s), Reef(s)</i>	W.	Wys, Wa, W ^a	Wyspa	<i>Island</i>
Scog.	Sc, Scra	Scogliera	<i>Ridge of rocks, Breakwater</i>	Zat.		Zatoka	<i>Gulf, Bay</i>
Sec.	Se	Secca, Secche	<i>Shoal(s)</i>	PORTUGUESE			
	T, T ^{te}	Torrente	<i>Intermittent stream</i>	Anc.		Ancoradouro	<i>Anchorage</i>
Tr.	Tre, T ^{re}	Torre	<i>Tower</i>	Arq.	Arqu ^o	Arquipélago	<i>Archipelago</i>
	Va, V ^{la}	Villa	<i>Villa</i>	B.		Baía	<i>Bay</i>
JAPANESE				Bco.	B ^{co}	Banco	<i>Bank</i>
B.	B ^a	Bana	<i>Cape, Point</i>	Bxo.	Ba, B ^{xo} , Bxa, B ^{xa}	Baixo, Baixa, Baixia, Baixio	<i>Shoal</i>
By.	Bi, B ⁱ	Byōchi	<i>Anchorage</i>	Co.	C.	Cabo	<i>Cape</i>
	D ^e	Dake	<i>Mountain, Hill</i>				
G.	G ^a	Gawa	<i>River</i>				
H.	Ha, H ^a	Hana	<i>Cape, Point</i>				
Hak.	Hi, H ⁱ	Hakuchi	<i>Roadstead</i>				

V Abbreviations of Principal Non-English Terms

CURRENT FORM	OBSOLESCENT FORM(S)	TERM	ENGLISH MEANING	CURRENT FORM	OBSOLESCENT FORM(S)	TERM	ENGLISH MEANING
PORTUGUESE (<i>continued</i>)				SPANISH			
Can.		Canal	Channel	A.	Arro, Arr ^o	Arroyo	Stream
Ens.	Ens ^a	Enseada	Bay, Creek	Arch.	Arch ^o	Archipiélago	Archipelago
Est.	Est ^o	Esteiro	Creek, Inlet	Arrf.	Arr ^e , Arr ^{fe} , Arr	Arrecife	Reef
Estr.		Estreito	Strait	Ba.	B ^a	Bahía	Bay
Estu.	Est, Est ^o	Estuario	Estuary	Bo.	B ^o	Bajo	Shoal
Fte.	F ^{te}	Forte	Fort	Bco.	B ^{co}	Banco	Bank
Fte.	Ftza, Ftza	Fortaleza	Fortress	Br.	Bzo, Bz ^o	Rompientes	Breakers
Fund.		Fundeadoiro	Anchorage	C.		Cabo	Cape
G.		Golfo	Gulf	Cal.	Cta	Caleta	Cove
	Gde, G ^{de}	Grande	Great	Can.		Canal	Channel
I.		Ilhéu, Ilhéus, Ilhota	Islet(s)	Cer.	Co, C ^o	Cerro	Hill
I.		Ilha, Ilhas	Island(s)	Cre.		Cumbre, Cima	Summit
L.		Lago	Lake		Cy	Cayo	Cay, Key
L.		Lagoa	Small lake, Marsh	Ens.	Ens ^a	Ensenada	Bay, Creek
La.	Le, L ^e	Laje	Flat-topped rock	Est.	Est ^o	Estero	Creek, Inlet
Lag.	La, L ^a	Laguna	Lagoon	Estr.		Estrecho	Strait
Mol.	Me, M ^e	Molhe	Mole	Estu.	Est, Est ^o	Estuario	Estuary
Mor.	Mo, M ^o	Morro	Headland, Hill	Fond.	Fond ^o	Fondeadero	Anchorage
Mt.	M ^{te} , Mte	Monte, Montanha	Mount, Mountain	Fte.	F ^{te}	Fuerte	Fort
NS.	Na.Sa, N ^a S ^a	Nosso Senhor, Nossa Senhora	Our Lord, Our Lady	G.		Golfo	Gulf
					Gde, G ^{de}	Grande	Great
P.	Pto, P ^{to}	Porto	Port	I.	Ja	Isla, Islas	Island(s)
Pal.	Pals, Pal ^s	Palheiros	Fishing village	I.	jte	Islote, Isleta	Islet
Par.	Pei, P ^{el}	Parcel	Shoal, Reef	L.		Lago	Lake
Pass.	Pas	Passagem, Passo	Passage, Pass	Lag.	La, L ^a	Laguna	Lagoon
	Pco, P ^{co} , P ^o	Pico	Peak	Mor.	Mo, M ^o	Morro	Headland, Hill
Pda.	pda	Pedra	Rock	Mte.	M ^{te}	Monte	Mount, Mountain
	Peq	Pequeno, Pequena	Small	Mu.	Me, M ^e , M ^{le}	Muelle	Mole
Pr.	Pa, P ^a	Praia	Beach		Na. Sa, N ^a S ^a	Nuestra Señora	Our Lady
Pta.	pta	Ponta	Point		Pto, P ^{to}	Puerto	Port
Queb.		Quebrada, Quebrado	Cut, Ravine	Pco.	P ^{co} , P ^o	Pico	Peak
Rch.		Riacho, Ribeira, Ribeirão	Creek, Stream, River	Pda.	pda	Piedra	Rock
		Recife	Reef	Pen.	Pen ^{la}	Península	Peninsula
Rf.		Rio	River		Peq	Pequeño, Pequeña	Small
Roc.	Ra, R ^a	Rocha, Rochedo	Rock	Pl.	Pa, P ^a	Playa	Beach
S.	Sto, S ^{to} , Sta, S ^{ta}	São, Santo, Santa	Saint, Holy	Prom.	Prom ^{to}	Promontorio	Promontory
Sa.	Sa, S ^a , Sr	Serra, Cordilheira	Mountain range	Pta.	pta	Punta	Point
	Va, V ^a	Vila	Town, Village, Villa	Queb.		Quebrada	Cut, Ravine
ROMANIAN				R.		Río	River
A.		Ansă, Ansa	Cove	Rga.		Restinga	Shoal, Sandbank
B.		Baie, Baia	Bay	Roc.	Ra, R ^a	Roca	Rock
Br.		Braț, Brațul, Brațu	Branch, Arm (of the sea)	S.	Sn, S ⁿ , Sto, S ^{to} , Sta, S ^{ta}	San, Santo, Santa	Saint, Holy
				Sr.	Sa, S ^a	Sierra	Mountain range
C.		Cap, Capul, Capu	Cape	Surg.	Surgo, Surg ^o	Surgidero	Anchorage, Roadstead
Di., D-le.		Deal, Dealul, Dealuri, Dealurile	Hill(s)	Tr.	T ^{re}	Torre	Tower
					Va, V ^a	Villa	Villa, Small town
Fd.mic		Fund mic	Shoal	SWEDISH			
I.		Insulă, Insula	Island	B.		Bukt	Bay, Bight
L.		Lac, Lacul, Lacu	Lake	Bg.	Bgt, B ^g	Berg, Berget	Mountain
Mt., M-ții.		Munte, Muntele, Munți, Muntii	Mountain, Mounts	Bk.	B ^k	Bank	Bank
				Fj.	F ^d	Fjärd, Fjord	Fjord
O.		Ostrov, Ostrovul, Ostrovu	Island		Gla, G ^{la}	Gamla	Old
S.		Stîncă, Stînce	Rock	Gr.	Grn, Grd, G rd , G ^d	Grund	Shoal
Sf.		Sfînt, Sfîntu, Sfîntul, Sfînta	Saint, Holy	H.	Hm, H ^m	Holme, Holmarna	Islet
					Hd, H ^d	Huvud	Headland
Str.		Strîmtoare, Strîmtoarea	Pass, Strait		Hn, H ⁿ	Hamn, Hamnen	Harbour
RUSSIAN				I.		Inre	Inner
B.		Bukhta	Bay, Inlet	L.		Lilla, Liten	Little, Small
b-ka.	Bka, B ^{ka} , Bki, B ^{ki} , Bk	Banka, Banki	Bank(s)	N.		Nord, Norra	North, Northern
Bol.		Bol'shoy, Bol'shaya, Bol'shoye	Great, Large	Ö.		Öst, Östra	East, Eastern
				S.		Syd, Södra	South, Southern
Gb.	G, Ga, G ^a	Guba	Gulf, Bay, Inlet	Sk.	Sk ^r	Skär, Skäret, Skären	Rock above water
G.		Gora	Mountain, Hill	St.		Stor	Great, Large
Gav.	G	Gavan'	Harbour, Basin	V.		Väst, Västra	West, Western
Kam.		Kamen'	Rock	Y.	Y ^t	Yttre	Outer
M.		Mys	Cape, Headland	THAI			
	Mal	Malyy, Malaya, Maloye	Little	Kh.		Khao	Hill, Mountain
O.	O ^{va}	Ostrov, Ostrova	Island(s)	L.	Lm, L ^m	Laem	Cape, Point
Oz.		Ozero	Lake	M.N.		Mae Nam	River
P-ov.	Pol ^{ov} , P ^{ov} , Pol	Poluostrov	Peninsula	TURKISH			
Pr.	Prv, Pr ^v	Proliv	Channel, Strait	Ad.		Ada, Adası	Island
R.		Reka	River	Aşp		Takimadalar	Archipelago
Zal.		Zaliv	Gulf, Bay	Adc.	Ad	Adacık	Islet
				Boğ.		Boğaz, Boğazi	Strait
				Br.	Bn, Bu	Burun, Burnu	Point, Cape
				Ç.	Ça	Çay, Çayı	Stream, River

Abbreviations of Principal Non-English Terms V

CURRENT FORM	OBSOLESCE FORM(S)	TERM	ENGLISH MEANING	CURRENT FORM	OBSOLESCE FORM(S)	TERM	ENGLISH MEANING
TURKISH (<i>continued</i>)				Languages of the former YUGOSLAVIA			
D.	Da	Dağ, Dağı	Mountain	Br.		Brdo, Brda	Mountain(s)
Dz.	De	Dere, Deresi	Valley, Stream	Gr.		Greben, Grebeni	Rock, Reef, Cliff, Ridge
G.		Deniz	Sea	Hr.		Hrid, Hridi	Rock
Isk.		Göl, Gölü	Lake	L.		Luka	Harbour, Port
Kf. Krf.		İskele, İskelesi	Jetty	M.		Mali, Mala, Malo, Malen	Small
Ky.	Kyl.	Körfez, Körfezi	Gulf	O.		Otočić, Otočići	Islet(s)
Lim. Lm.	Li	Kaya, Kayası	Rock	O.		Otok, Otoci	Island(s)
N.		Liman, Limanı	Harbour	Pl.		Pličina	Shoal
		Nehir, Nehri, Irmak, Irmağı	River	Pr.		Prolaz	Passage
T.	Te, T ^e	Tepe, Tepesi	Hill, Peak	S.	Sv	Sveti, Sveta, Sveto	Saint, Holy
Yad.		Yarımada, Yarımadası	Peninsula	Šk.		Školj, Školjić	Island, Reef
				U.		Uvala, Uvalica	Inlet
				V.		Veli, Vela, Velo, Velik, Veliki, Velika, Veliko	Great
				Z.	Zal	Zaliv, Zaljev, Zaton	Gulf, Bay

V Abbreviations of Principal English Terms

CURRENT FORM	OBSOLESCENT FORM(S)	TERM	REFERENCES	CURRENT FORM	OBSOLESCENT FORM(S)	TERM	REFERENCES
abt	ab ^t	About	O a	Dir	Dir ⁿ	Direction	—
Aero		Aeronautical	P 60, 61	Dir Lt	Dir Lt	Directional light	P 30-31
Al.	Al	Algae	J t	Discol	Discol ^d	Discoloured water	K e
ALC	Alt	Alternating light	P 10.11	discont	discont ^d , discont ^d	Discontinued	O b
ALL		Articulated Loading Column	L 12	dist	Dist	Distant	O 85
ALRS		Admiralty List of Lights and Fog Signals	—	Dk	D ^k	Dock	G c
		Admiralty List of Radio Signals	—	dm	dm.	Decimetre(s)	B 42
Am		Amber	P 11.8	Dn, Dns	D ⁿ	Dolphin(s)	F 20
Anch.	Anch ^e	Anchorage	O 21	dr	dr., Dr.	Dries	K b
ANM	Anct, Anc ^t	Ancient	O 84	DW		Deep-water, Deep-draught	M 27, N 12.4
		Annual Summary of Admiralty Notices to Mariners	—	dwt		Deadweight tonnage	—
Annly	Ann ^{ly}	Annually	—	DZ		Danger Zone	Q 50
Appr.	Apprs, Appr ^s	Approaches	O 22	E	E.	East	B 10
approx	Approx	Approximate	O 89	ED	(ED), (E.D.)	Existence doubtful	I 1
Apr		April	—	EEZ		Exclusive Economic Zone	N 47
Arch.	Archo, Arch ^o	Archipelago	G 5	Ent.	E.F. Horn	Electric fog horn	R 13
ASD		Admiralty Sailing Directions	—	Entce, Ent ^{ce}	Equin ^l	Entrance	O 16
ASL		Archipelagic Sea Lane	M17	ESSA		Equinoctial	—
ATBA		Astronomical	—			Environmentally Sensitive Sea Area	N 22
ATT	Astr, Astrl, Astr ^l	Area to be Avoided	M14, 29	Est.	Est ^y	Estuary	O 17
Aug		Admiralty Tide Tables	—	Estab ^t	Estab ^t	Establishment	—
Aus		August	—	ev.	ev.	Every	—
Ave	Av ^e	Australia	—	exper	exper ^l , Exper ^l	Experimental	O 92
		Avenue	G 111	explos	explos.	Explosive	R 10
				(exting)	(exting ^d)	Extinguished	P 55
B.		Bay	O 4	f		Fine	J 30
B	bl, blk	Black	J af, Q 2	F		Fixed light	P 10.1
	Ba	Basalt	J i	FAD		Fish Aggregating Device	—
Bk.	B ^k	Battery	E 34.3	F Racon		Fixed frequency radar	—
bk	brk	Bank	O 23			transponder beacon	S 3.4
Bldg	brk	Broken	J 33	Feb		February	—
	Bldg	Building	D 5	FFL		Fixed and flashing light	P 10.10
Bn, Bns	BM, B.M.	Bench Mark	B 23	Fj.	Fd, F ^d	Fjord	O 5
		Beacon(s)	M 1-2, P 4-5, Q 80-81	Fl	(fish ^g)	Fishing light	P 50
BnTr	Bn Tower	Beacon Tower	P 3, Q 110	Fl.	fl.	Flashing light	P 10.4
Bo	Bo	Boulders	J e	Fl., fl	Fl., fl	Flood	—
Bol	Boll.	Bollard	F a, G 181	Fla		Flare stack (at sea)	L 11
Br		Breakers	K 17	fm, fms	Fm, F ^m	Farm	G 53
Bu	br	Brown	J ak	Fog Det Lt	f ^m , f ^{ms}	Fathom, fathoms	B 48
	Bl, Bl., b	Blue	J ag, P 11.4, Q a			Fog detector light	P 62
						Fog signal station	R 1
						Radio fog signal	—
C.		Cape	G 7	FPSO		Floating Production and Storage Offtake Vessel	L17
c		Coarse	J 32			Foraminifera	J u
ca	cal	Calcareous	J 38	FS	Fr, for	Flagstaff, Flagpole	E 27
CALM		Catenary Anchor Leg	L 16	FSO	F.S.	Floating Storage and Offtake Vessel	L17
Cas	Cas.	Castle	E 34.2, G 64				
Cb	Cath, Cath.	Cathedral	E 10.1, G 75	ft	Ft, F ^t	Fort	E 34.2
cd		Cobbles	J 8		f ^t	Foot, feet	B 47, P 13
CD		Candela	B 54	G	g	Gravel	J 6
		Chart Datum	H 1	G	gn	Green	J ah, P 11.3, Q 2
CG	Cemy, Cem ^y	Cemetery	E 19	G.		Gulf	O 3
Ch	C.G.	Coastguard station	T 10-11		ga, glac	Glacial	J ac
Chan.	Ch.	Church, chapel	E 10.1, E 11		Gc	Glauconite	J p
Chem	ch, choc	Chocolate	J al		Gd, grd	Ground	J a
		Channel	O 14		Gl, gl	Globigerina	J v
		Chemical	L 40		Govt Ho, Gov ^t Ho	Government House	—
Chy	chk, Ck	Chalk	J f	Gp.		Group (of islands)	—
	Ch ^y	Chimney	E 22		GpFl, Gp.Fl.	Group-flashing light	P 10.4
cm	cin, Cn	Cinders	J n		GpOcc, Gp.Occ.	Group-occluding light	P 10.2
Co	cm.	Centimetre(s)	B 43	GPS		Global Positioning System	—
	crl	Coral	J 10, K 16	grt		Gross Register Tonnage	—
	Col	Column, pillar, obelisk	E 24, G 66		Gt, Grt, G ^t , Gr ^t	Great	—
const	conspic	Conspicuous	E 2		G.T.S.	Great Trigonometrical	—
cov	constn, constr ⁿ	Construction	F 32			Survey Station (India)	—
Cr.	cov.	Covers	K c	GT	Gy, gy	Grey	J am, Q a
Cup	Cup.	Creek	O 7			Gross Tonnage	—
Cy	cl	Cupola	E 10.4	h		Hard	J 39
		Clay	J 3		H, H.	Headway	D 20, D 26-27
	(D)	Doubtful	—	H		Helicopter transfer (Pilots)	T 1.4
Dec	d	Dark	J ao	h	h., H.	Hour	B 49
decr		December	—	HAT		Highest Astronomical Tide	H 3
decr	decr ^g	Decreasing	B 64	Hd.	H ^d	Headland	G 8
dest	dest ^d , Dest ^d	Destroyed	O 93	Hn.	H ⁿ	Haven	G 139
Det		(see Fog Det Lt)	—	Ho		House	G 61
DG, DG Range	D. G. Range	Degaussing Range	N 25, Q 54	(hor)	(hor ^l)	Horizontally disposed	P 15
DGPS		Differential Global Positioning System	S 51	Hosp	Hospl, Hosp ^l	Hospital	F 62.2
				Hr.	H ^r	Harbour	G 138
					Hr, H ^r	Higher	—
Dia	Di, di	Diatoms	J w	Hr Mr		Harbour Master	F 60
		Diaphone	R 11		Ht, H ^t	Height	—

Abbreviations of Principal English Terms

V

CURRENT FORM	OBSOLESCENT FORM(S)	TERM	REFERENCES	MHW	MHWN	MHWS	Mean High Water	H 5
HW	H.W. H.W.F. & C. H.W.O.S.	High Water High Water Full and Change High Water Ordinary Springs	H a — —	min Mk	M.H.W.N. M.H.W.S. Mid, Mid. min., m.		Mean High Water Neaps Mean High Water Springs Middle Minute(s) of time Mark Marl	H 11 H 9 — B 50 Q 101 J c
				CURRENT FORM	OBSOLESCENT FORM(S)		TERM	REFERENCES
I. IALA	It	Island, islet International Association of Lighthouse Authorities	G 1-2 Q 130	LHW MLLW MLW MLWN MLWS	M.L.H.W. M.L.L.W. M.L.W.N. M.L.W.S. mm.		Mean Lower High Water Mean Lower Low Water Mean Low Water Mean Low Water Neaps Mean Low Water Springs Millimetre(s) Morse code Monument Monastery Mussels	H 15 H 12 H 4 H 10 H 8 B 44 P 10.9, R 20 E 24 G 76 J r
(illum) IMO	Illum., (lit)	Illuminated International Maritime Organization	P 63 —	Mo Mon	Mont, Mont ^t Mony, Mon ^y Ms, mus		Mean Sea Level Mountain, mount Mouth Mean Tide Level	H 6 G 23 O 19 H c
incrg INT Intens IQ	in., ins. incr ^g (intens) IntQkFl, Int.Qk.Fl.	Inch, inches Increasing International Intensified Interrupted quick-flashing light	— B 65 A 3, T 21 P 46 P 10.6	MSL Mt. Mth. MTL	M.S.L. M ^t M th M.T.L.		North Nautophone Notice Board North-east Notice(s) to Mariners International Nautical Mile Number November Neap Tides Nett register tonnage Net Tonnage North-west New Zealand	B 9 R 13 Q 126 B 13 — B 45 N 12.2 — H 17 — — B 15 —
Iso	It	Isophase light Islet	P 10.3 G 2	NB NE NM	N. Nauto N.B. N.E. N.M.		Obs Spot, Obsn Spot, Obs ⁿ Spot	B 21
ITZ IUQ		Inshore Traffic Zone Interrupted ultra quick-flashing light	— P 10.8	n mile No Nov Np nrt NT NW NZ	N ^o Np.		Obscured Obstruction, Diffuser Observatory Occulting light Occasional October Ordnance Datum Ocean Data-Acquisition System Office Orange Ordinary Oysters Ooze	P 43 K 40-43, L 43 G 73 P 10.2 P 50 — H d Q 58 G 72 P 11.7, Q 3 — J q J b
IVQ	IntVQkFl, Int.V.Qk.Fl	Interrupted very quick-flashing light	P 10.7					
Jan Jul		January July	— —					
km kn	km. kn.	Kilometre(s) Knot(s)	B 40, F 40 B 52, H 40-41					
L.		Lake, Loch, Lough	O 6	Obscd Obstn	Obsc ^d Obst ⁿ Obsy, Obs ^y			
Lag. LANBY	I Lagn, Lag ⁿ	Large Lagoon Large Automatic Navigational Buoy	J ab G 13, O 8 P 6	Oc (occas) Oct OD ODAS	Occ, Occ. (occas ^l) O.D.			
LASH LAT Lat		Lighter Aboard Ship Lowest Astronomical Tide Latitude	G 184 H 2 B 1					
Ldg Le. LFI	LB, L.B. L ^{dg} L ^e	Lifeboat station Leading Ledge Long-flashing light	T 12 P 20.3 O 28 P 10.5	Or	Off, Off. Or. ord. Oy, oys Oz, oz			
LL Lndg. LNG LOA LoLo Long LPG	Lit, Lit. (lit) L.L. L ^{dg}	Little Floodlit List of Lights Landing place Liquefied Natural Gas Length overall Load-on, Load-off Longitude Liquefied Petroleum Gas Lower	— P 63 — F 17 G 185 — — B 2 G 186 P 23	P P. (P) PA Pag Pass. PD Pen. Pk.	peb (PA), (P.A.) Pag. (PD), (P.D.) Penla, Pen ^{la} pk			J 7 G 137 — B 7 E 14 O 13 B 8 G 4 G 25 J k F 63 J z P 50, P 65, Q 70
Lt Lts LtHo Lt V	L ^r , L ^r L.S.S. L ^t , It L ^t Ho L ^t V	Lifesaving station Light Lights Lighthouse Light-vessel	— J an, P 1 P 20.1, 61.2 P 1 P 6	PO pos (priv)	Pm, pum P.O. Po, pol posn, pos ⁿ priv., (Priv.)			
Lv, Iv LW	Lv, Iv L.W. L.W.F. & C. L.W.O.S.	Lava Low Water Low Water Full and Change Low Water Ordinary Springs	J j H b — —	Prod Well prohib proj prom Prom.	Prohib ^d projd, Proj ^d promt, Prom ^t Promy, Prom ^y (prov), (prov ^l)			L 20 O c O 80 O d G 20 —
M M m m	m M. m. mad, Md	Mud Sea Mile(s) Medium Metre(s) Madrepore	J 2 B 45, P 14 J 31 B 41, P 13 J h	PSSA Pt. Pt. Pyl				
Mag	Mag. Magz, Mag ^z man, Mn	Magnetic Magazine Manganese	B 61 — J o	Q	QkFl, Qk.Fl. Q ^r Qz, qrtz			P 10.6 — J g
Mar MHHW MHLW	March M.H.H.W. M.H.L.W.	March Mean Higher High Water Mean Higher Low Water	— H 13 H 14	R R.	rd		Red River	J aj, P 11.2, Q 3 —

V Abbreviations of Principal English Terms

CURRENT FORM	OBSOLETE FORM(S)	TERM	REFERENCES
R	r	Rock	J 9, K 15
R	R ^o	Coast Radio Station providing QTG service	S 15
Ra		Radar Range, Radar Reference Line, Coast Radar Station	M 31-32, S 1
	Ra (conspic), OBSOLETE FORM(S)	Radar conspicuous object	S 5
	Ra. (conspic)	Radar Reflector	Q 10-11, S 4
Racon	Ra. Refl.	Radar Transponder Beacon	S 3
Ramark	rad, Rd	Radiolaria	J x
RC		Radar Beacon	S 2
		Non-directional Radio-beacon	S 10
RD	Dir.Ro.Bn	Directional Radiobeacon	S 11
Rds.	R ^{ds}	Roads, Roadstead	O 20
Ref		Refuge	Q 124, T 14
Refl	Refl.	Retroreflecting material	Q 6
	Rem ^{ble}	Remarkable	—
Rep	Repd, Rep ^d	Reported	I 3
Rf.	R ^f	Reef	O 26
RG	R ^o D.F.	Radio Direction-Finding Station	S 14
Rk.	R ^k	Rock	G 11
(R Lts)	(Red Lts)	Air Obstruction Lights (low intensity)	P 61.2
	Rly, Ry, R ^y	Railway	D 13
	R ^o B ⁿ	Radiobeacon in general	S 10
RoRo	Ro-Ro	Roll-on Roll-off ferry terminal	F 50
	R.S.	Rocket station	—
Ru, (ru)	Ru.	Ruins	D 8, E 25.2, F 33
RW		Rotating Pattern Radiobeacon	S 12
S.	St, S ^t	Saint	G 54
S	s	Sand	J 1
S	S.	South	B 11
s	sec, sec.	Second(s) of time	B 51, P 12
SALM		Single Anchor Leg Mooring	L 12
SBM		Single Buoy Mooring	L 16
SC	S.C.	Sailing Club	U 4
	Sc, sc	Scoriae	J m
Sc	Sc.	Scanner	E 30.3
Sch	Sch.	School	G b
SD	S.D.	Sailing Directions	—
SD		Sounding of doubtful depth	I 2
Sd.	S ^d	Sound	O 12
SE	S.E.	South-east	B 14
	Sem, Sem.	Semaphore	—
Sep		September	—
sf	stf	Stiff	J 36
Sh	sh	Shells	J 11
Sh.		Shoal	O 25
Si		Silt	J 4
Sig	Sig.	Signal	R 1, T 25.2
	sk, spk	Speckled	J ad
	sm	Small	J aa
SMT	SM ^t	Seamount	O 33
	Sn, shin	Shingle	J d
so	sft	Soft	J 35
Sp	Sp.	Spire	E 10.3
	Sp, sp	Sponge	J s
Sp	Sp, Spr.	Spring Tides	H 16
SPM		Single Point Mooring	L 12
SS	Sig Sta, Sig Stn	Signal Station	T 20-36
St	st	Stones	J 5
St	St.	Street	G 110
Sta	Sta., Stn, St ⁿ	Station	D 13
	Strm.Sig.Stn.	Storm Signal Station	T 28
Str.		Strait	O 11
subm	submd, Subm ^d	Submerged	O 90
SW	S.W.	South-west	B 16
SWOPS		Single Well Oil Production System	L c
sy	stk	Sticky	J 34
	T, t	Tufa	J 1
(T)		Temporary (NM)	—
t		Ton, tonne	B 53, F 53
	t	Elevation of top of trees	C 14
Tel	Tel.	Telephone, Telegraph	G 95
(temp)	(tempy), (temp ^y)	Temporary	N b, P 54
Tr	T ^r	Tower	E 10.2, E 20
		Traffic Separation Scheme	—
		Television Tower	E 28-29
		Unwatched, unmanned (light)	P 53
		Ultra Large Crude Carrier	—
		Uncovers	K d
		Unexamined	I a
		Unintensified	P a
		Upper	P 22
		Ultra quick-flashing light	P 10.8
		Co-ordinated	—
		Universal Time	—
		Universal Transverse Mercator	—
		Volcanic	J 37
		Villa	—
		Variation	B 60
		Varying	—
		Velocity	—
		Vertically disposed	P 15
		Violet	P 11.5
		Visible	—
		Very Large Crude Carrier	G 187
		Volcano	G 26
		Very quick-flashing light	P 10.7
		Vessel Traffic Service	—
		West	B 12
		White	J ae, P 11.1, Q a
		Water tower	E 21
		Weed	J 13.1
		World Geodetic System	S 50
		Wharf	F 13, G d
		Whistle	R 15
		Wreck	K 20-30
		Radio (Wireless/Telegraphy)	—
		Yellow, amber, orange	J ai, P 11, IQ 3
		Yacht Club	U 4
		Yard(s)	—

International Abbreviations **W**

A			G		
Aero	Aeronautical light	P 60, 61.1	G	Gravel	J 6
† Aero RC	Aeronautical radiobeacon	S 16	G	Green	P 11.3, Q 2
AIS	Automatic Identification System	S 17	GPS	Global Positioning System	
Al	Alternating	P 10.11	grt	Gross Register Tonnage	
ALC	Articulated Loading Column	L 12	GT	Gross Tonnage	
Am	Amber	P 11.8			
ASL	Archipelagic Sea Lane	M 17			
B			H		
B	Black	Q 2, 81	h	Hard	J 39
bk	Broken	J 33	h	Hour	B 49
Bn	Beacon	P 4, 5, Q 80	H	Helicopter	T 1.4
BnTr	Beacon tower	P 3, Q 110	hor	Horizontally disposed	P 15
Bo	Boulder(s)	J 9.2			
Br	Breakers	K 17			
Bu	Blue	P 11.4			
C			I		
c	Coarse	J 32	INT	International	A 2, T 21
ca	Calcareous	J 38	Intens	Intensified	P 46
CALM	Catenary Anchor Leg Mooring	L 16	IQ	Interrupted quick	P 10.6
Cb	Cobbles	J 8	Iso	Isophase	P 10.3
cd	Candela	B 54	IUQ	Interrupted ultra quick	P 10.8
CG	Coastguard	T 10, 11	IVQ	Interrupted very quick	P 10.7
Ch	Church	E 10.1			
Chy	Chimney	E 22			
cm	Centimetre(s)	B 43			
Co	Coral	J 10, K 16			
† Consol	Consol Beacon	S 13			
Cy	Clay	J 3			
D			K		
DGPS	Differential Global Positioning System	S 51	km	Kilometre(s)	B 40
Dia	Diaphone	R 11	kn	Knot(s)	B 52
Dir	Direction light	P 30, 31			
dm	Decimetre(s)	B 42			
Dn, Dns	Dolphin(s)	F 20			
DW	Deep Water route	M 27, N 12.4			
dwt	Dead Weight Tonnage				
DZ	Danger Zone	Q 50			
E			L		
E	East	B 10	LANBY	Large Automatic Navigational Buoy	P 6, Q 26
ED	Existence Doubtful	I 1	LASH	Lighter Aboard Ship	G 184
Explos	Explosive	R 10	Lat	Latitude	B 1
exting	Extinguished	P 55	Ldg	Leading	P 20.3
F			LFI	Long-flashing	P 10.5
f	Fine	J 30	Lndg	Landing for boats	F 17
F	Fixed	P 10.1	LNG	Liquefied Natural Gas	G 185
FFI	Fixed and Flashing	P 10.10	Long	Longitude	B 2
FI	Flashing	P 10.4	LPG	Liquefied Petroleum Gas	G 186
Fla	Flare stack	L 11	Lt	Light	P 1
Fog Det Lt	Fog detector light	P 62			
FS	Flagstaff, flagpole	E 27			
ft	Foot/feet	B 47			
			M		
			m	Medium	J 31
			m	Metre(s)	B 41
			m	Minute(s) of time	B 50
			M	Mud	J 2
			M	International Nautical mile(s) (1852 m) or sea mile(s)	B 45
			min	Minute(s) of time	B 50
			Mk	Mark	Q 101
			mm	Millimetre(s)	B 44
			Mo	Morse Code	P 10.9, R 20
			Mon	Monument	E 24
			MR	Marine Reserve	N 22.3
			N		
			N	North	B 9
			NE	North-east	B 13
			No	Number	N 12.2
			NT	Net Tonnage	
			NW	North-west	B 15

W International Abbreviations

O			T		
Obscd	Obscured	P 43	t	Ton(s), Tonne(s) or tonnage	B 53, F 53
Obstn	Obstruction	K 40-43, L 43	temp	Temporary	P 54
Oc	Occulting	P 10.2	Tr	Tower	E 10.2, 20
occas	Occasional	P 50	U		
ODAS	Ocean Data Acquisition System	Q 58	ULCC	Ultra Large Crude Carrier	G 188
Or	Orange	P 11.7, Q 3	UQ	Ultra Quick	P 10.8
P			UTC	Universal Time Co-ordinated	
P	Pebbles	J 7	UTM	Universal Transverse Mercator	
PA	Position approximate	B 7	V		
PD	Position doubtful	B 8	v	Volcanic	J 37
priv	Private	P 65, Q 70	vert	Vertically disposed	P 15
Prod Well	Submerged production well	L 20	Vi	Violet	P 11.5
PSSA	Particularly Sensitive Sea Area	N 22.4	VLCC	Very Large Crude Carrier	G 187
Pyl	Pylon	D 26	VQ	Very Quick	P 10.7
Q			VTS	Vessel Traffic Service	
Q	Quick	P 10.6	W		
R			W	West	B 12
R	Coast radio stations QTG service	S 15	W	White	P 11.1, Q 130.5
R	Red	P 11.2, Q 3	Wd	Weed	J 13.1
R	Rock	J 9, K 15	Well	Wellhead	L 21
Ra	Radar	M 31, 32, S 1	WGS	World Geodetic System	S 50
Racon	Radar transponder beacon	S 3.1-3.6	Whis	Whistle	R 15
† RC	Circular marine radiobeacon	S 10	Wk; Wks	Wreck(s)	K 20-30
† RD	Directional radiobeacon	S 11	Y		
Ref	Refuge	Q 124, T 14	Y	Amber	P 11.8
Rep	Reported, but not confirmed	I 3.1	Y	Orange	P 11.7
RG	Radio direction-finding station	S 14	Y	Yellow	P 11.6, Q 3
RoRo	Roll-on, Roll-off Ferry (RoRo Terminal)	F 50			
Ru	Ruin	D 8, E 25.2, F 33			
† RW	Rotating-pattern radiobeacon	S 12			
S					
S	Sand	J 1			
s	Second(s) of time	B 51, P 12			
S	South	B 11			
SALM	Single Anchor Leg Mooring	L 12			
SBM	Single Buoy Mooring	L 16			
SD	Sounding doubtful	I 2			
SE	South-east	B 14			
sec	Second(s) of time	B 51			
sf	Stiff	J 36			
Sh	Shells (skeletal remains)	J 11			
Si	Silt	J 4			
Sig	Signal	T 25.2			
SMt	Seamount	O 33			
so	Soft	J 35			
Sp	(Church) spire	E 10.3			
SPM	Single Point Mooring	L 12			
SS	Signal station	T 20-36			
St	Stones	J 5			
SW	South-west	B 16			
sy	Sticky	J 34			

See also Section V for Abbreviations of principal English and non-English terms, and Section W for International Abbreviations.

About	O a	Breakers	K 17	Coast radar station	S 1
Abyssal hill	O 37	Breakwater	F 4	Coast radio station, QTG service	S 15
Abyssal plain	O 49	Brick kiln, works	G 81	Cobbles	J 8
Aerial, dish	E 31	Bridges	D 22-24	Coldstore	G 86
Aerial cableway	D 25	suspension	G 114	Colour of beacon, buoy	Q 2-5, Q 6a, Q 6c
Aero light	P 60	lights, traffic signals	T 25	Colour of lights	P 11
Aeronautical radiobeacon	S 16	Broken	J 33	Coloured mark	Q 101
Airfield, airport	D 17	Brown	J ak	Column	E 24, G 66
Air obstruction light	P 61	Buddhist temple	E 16	Commercial port	G 147
Air traffic	G 116-118	Building	D 1-8, G 60-a	Compass rose	B 70
AIS	S 17.1-17.2	harbour	G 148	Composite light	P 10
Algae	J s	slip	G 171	Conical buoy	Q 20
Alongside depth	I 11	yard	G 172	Conifer	C 31.3
Alternating light	P 10.11	Bunker station	G 174	Coniferous woodland	G 39
Amber	P 11.8	Buoys	Q 1-71	Consol beacon	S 13
Anchor berth	N 11	Buoy dump, yard	G 173	Conspicuous landmark	E 2
Anchorage	N 10-a, O 21	Buoyant beacon	P 5	Conspicuous, on radar	S 5
Anchorage area	N 10-a	Buoyed	O 82	Construction works	F 32
Anchoring prohibited	N 20	Buried pipe, pipeline	L 42	Container crane	F 53.2
Anchoring system	L b	Bushes	G 37	Container harbour	G 152
Ancient	O 84	Cable	B 46	Contiguous Zone	N 44
Annual change	B 66	buoy	Q 55	Continental	
Anomaly, local magnetic	B 82	ferry	M 51	borderland	O 47
Approach	O 22	landing beacon	Q 123	rise	O 46
Approximate	O 89	overhead	D 27	shelf	N 46, O 42
depth contour	I 31	submarine	L 30-32	slope	O 45
height contour	C 12	Cableway (aerial)	D 25	Continuous flashing light	P 10
position	B 33	Cairn	Q 100	Contour	
Apron	O 59	Caisson	F 42	depth	I 30-31
Archipelagic Sea Lane	M 17	Calcareous	J 38	drying	I 30
Archipelago	G 5	Calling-in point	M 40	line	C 10, C 12
Area to be avoided	M 14, M 29	Calvary	E 12	Control points	B 20-a
Area, restricted	N 20-b	Camping site	U 30	Convent	G 76
Arm of the Sea	O 6	Canal	F 40, G 132	Conversion scales, tables	A b
Artificial features	F 1-6	Canal distance mark	F 40	Conveyor	G 182
Artificial island	L 15	Can buoy	Q 21	Cooling water intake/outfall	G 177
Astronomical tides	H 2-3, H 20	Candela	B 54	Copyright	
Atoll	G 6	Canyon	O 55	Acknowledgement	A 5
Automatic fog signal	R 20-22	Cape	G 7	Notice	A c
Automatic Identification System		Caravan site	U 29	Coral	J 10, J 22, K 16
transmitter	S 17.1-17.2	Cardinal marks	Q 130.3	Corner coordinates	A 9
Avenue	G 111	Cargo transhipment area	N 64	Cove	O 9
Awash, rock	K 12	Car park	U 27	Covers	K b
Bank	O 23, U 14	Castle	E 34.2, G 64	Crane	F 53
Barge buoy	Q 53	Casuarina	C 31.6	Creek	O 7
Barrage, flood	F 43	Cathedral	G 75	Cross	E 12
Barrel buoy	Q 25	Causeway	F 3	Crossing gates, traffic separation	M 22
Barrier, floating	G 178	Cautionary notes	A 16	Crossing, traffic separation	M 23
Barrier, tidal	G 130	Cay	G 3	Cultural features	D
Basalt	J h	Cement works	G 82	Cupola, church	E 10.4
Bascule bridge	D 23.4	Cemetery	E 19	Current	H 42-43
Baseline, Territorial Sea	N 42	Centimetre	B 43	meter	H f
Basin	F 27-28, IG 134, O 48	Chalk	J e	meter buoy	Q 59
Battery	E 34.3	Chandler	U 12	Custom office	F 61
Bay	O 4	Channel	O 14	Customer Information	A 6
Beacon	Q 1-11, Q 80-126	dredged	I 21-23	Customs harbour	G 14
buoyant, resilient	P 5	half-tide	I b	Customs limit	N 48
Consol	S 13	maintained	I 23	Cut	G 32
lighted	P 4	Chapel	E 11	Cutting	D 14
radar	S 2-3	Characters, Light	P 10	Cylindrical buoy	Q 21
radio	S 10-16	Chart		Dam	F 44
tower	P 3, Q 110	Datum	H 1, H 20	Danger	
Bearing	B 62, Pb	limit, larger scale	A 18	area beacon	Q 125
Bell	R 14	number	A 1-2	area/zone buoy	Q 50
Benchmark	B 23	scale	A 13	firing area	N 30
Berth		title	A 10	isolated marks	Q 130.4
anchor	N 11	Chemical dumping ground	N 24	line	K 1
designation	F 19	Chemical pipeline	L 40.1	reported	I 3-4
visitors'	U 2	Chemist	U 16	signal station	T 35
yacht	U 1.2	Chequered colours	Q c	Dangerous wreck	K 28
Bird sanctuary	N 22	Chimney	E 22	Dark	J ao
Black	J af, Q 2	Chocolate	J al	Data collection buoy	Q 58
Blockhouse	E 34.2	Church	E 10	Datum	
Blue	J ag, P 11.4, Q a	Cinders	J m	Chart	H 1, H 20
Board, painted	Q 102.2	City	G 50	land survey	H 7, H 20
Boarding place, pilot	T 1	Clay	J 3	Ordnance	H d, H 20
Boat		Clearance		Daymark	Q 80-83, Q 110
harbour	U 1.1	horizontal	D 21	Daytime light	P 51
hoist, lift	G 131, U 6	safe vertical	D 26	Deciduous tree	C 31.1
park	U 28	vertical	D 20, D 22-28	Deciduous woodland	G 38
yard	U 9	Cleared platform, site	L 22	Decimetre	B 42
Bollard	F a, G 181	Clearing line	M 2	Decreasing	B 64
Boom	G 178	Clearing line beacons	Q 121	Deep water (DW)	
Borderland, continental	O 47	Cliffs	C 3	anchorage	N 12.4
Border scale, linear	A 14	Closed	O 87	harbour	G 142
Bottled gas	U 20	Coal harbour	G 154	route	M 27
Boulder	G 28, J 9.2	Coarse	J 32	Degaussing range	N 25
Boundary, international	N 40-41	Coastguard station	T 10-11	buoy	Q 54
Boundary mark	B 24	Coastline	C 1-8	Degree	B 4

X Index

- Delta O 18
 Depths I
 Depth
 contours I 30
 minimum M 27.2
 swept I 24, K 2
 Derrick, oil L 10
 Designation of beacon or buoy Q 10-11
 Designation of berth F 19, N 11, Q 42
 Designation of reporting point M 40
 Destroyed O 93
 Detector light P 62
 Development area L 4
 Deviation dolphin F 21
 Deviation, magnetic B 67
 DGPS station S 51
 Diagonal colour stripes Q 5
 Diaphone R 11
 Diatoms J v
 Diffuser L 43
 Dimensions A 8
 Direction-finding station S 14
 Direction lights P 30
 Direction of buoyage Q 130.2
 Directional radiobeacon S 11
 Discharge pipe L 41
 Discoloured water K d
 Discontinued O b
 Dish aerial E 31
 Disposition of lights P 15
 Distance mark B 25
 Distance B
 Distant O 85
 Distress signal station T 26
 Disused
 cable L 32
 pipeline L 44
 platform L 14
 Diving prohibited N b
 Dock G c
 dry, graving F 25
 floating, wet F 26-27
 Doctor U 15
 Dolphin F 20-21
 Dome E 30.4
 Doubtful
 depth I 2
 existence I 1
 position B 8
 Draw bridge D 23.6
 Dredged area, channel I 20-23
 Dredging area N 63
 Dries K a
 Dry dock F 25
 Drying contour I 30
 Drying heights I 15
 Dumping ground N 23-24
 Dunes C 8
 Dyke F 1
- East** B 10
 East cardinal mark Q 130.3
 Ebb tide stream H 41
 Eddies H 45
 Edition number A 5
 Electricity U 19
 Electric works G 89
 Elevation of light H 20, P 13
 Embankment D 15
 Emergency Wreck Marking Buoy Qb
 English terms, abbreviations V
 Entrance O 16
 Entry prohibited area N 2.2, N 31
 Environmentally Sensitive Sea Areas (ESSA) N 22
 Escarpment O 61
 Established direction of traffic flow M 10
 Estuary O 17
 Eucalypt C 31.8
 Evergreen C 31.2
 Exchange office U 14
 Exclusive Economic Zone N 47
 Exercise area, submarine N 33
 Existence doubtful I 1
 Experimental O 92
 Explanatory notes A 11, A 16
 Explosives
 anchorage area N 12.7
 dumping ground N 23, N a
 fog signals R 10
 Extinguished light P 55
- Extraction area N 65
- Factory** G 80
 Faint sector P 45
 Fairway M 18
 Fairway, safety M a
 Fairway, lights marking P 20-41
 Fan O 58
 Farm G 53
 Farm, fish, marine K 48
 Fast ice, limit N 60.1
 Fathom B 48
 Ferry M 50-51
 harbour G 155
 light P 50
 terminal, RoRo F 50
 Filao C 31.7
 Fine J 30
 Firing danger area N 30
 beacon Q 125
 buoy Q 50
 Firing practice signal station T 36
 Fish
 cages, farm K 48.1
 haven K 46
 trap, weir K 44.2-45
 Fishery limit N 45
 Fishing
 harbour F 10
 light P 50
 prohibited N 21
 stakes K 44.1
 village G 52
 Fixed
 bridge D 22
 & flashing light P 10.10
 light P 10.1
 point B 22
 Fjord O 5
 Flagpole, flagstaff E 27
 Flare stack E 23, L 11
 Flashing light P 10.4
 Flat coast C 5
 Floating
 barrier G 178
 dock F 26
 lights P 6
 Flood barrage F 43
 Flood tide stream H 40
 Floodlight G 70
 Floodlit structure P 63
 Fog
 detector light P 62
 light P 52
 signals R
 Foot, feet B 47
 Footbridge G 115
 Foraminifera J t
 Form lines C 13
 Fort E 34
 Foul K 31
 Fracture zone O 60
 Free port G 143
 Front light P 23
 Fuel station U 18
- Gap** O 63
 Gas
 bottle U 20
 pipeline L 40.1
 works G 90
 Gasfield name L 1
 Gate F 42
 Geographical positions B 1-16
 Glacial J ac
 Glacier C 25
 Glauconite J o
 Globigerina J u
 Gong R 16
 Gorge G 33
 Grain harbour G 151
 Grassland G 35
 Gravel J 6
 Graving dock F 25
 Green J ah, P 11.3, Q 2
 Greenhouse G 84
 Greenwich Meridian B 3
 Grey J am, Q a
 Gridiron F 24
 Ground J a
- Ground tackle Q 42
 Group light P 10
 Groyne F 6
 Gulf O 3
 Gully, tidal O 67
 Gun R 10
- Half-tide channel** I 16
 Harbour G 138
 installations F 10-a, G 170-187
 limit N 49
 Master's Office F 60
 types G 130-c
 Hard J 39
 Haven G 139
 Head, headland G 8
 Headway D 20-28
 Health Office F 62.1
 Height C 10-14, E 4-5
 Helicopter landing site D b, G 118
 Heliport D b
 High Water H 5-20
 Highest Astronomical Tide H 3, H 20
 Hill G 27
 Hillocks C 4
 Historic wreck N 26
 Hoist U 6
 Hole O 50
 Horizontal
 clearance D 21
 colour bands Q 4
 lights P 15
 Horn R 13
 Hospital F 62.2
 Hotel G 96, G 98
 Hour B 49
 House G 61
 Hulk F 34
 Hut G 62
 Hydrographic terms O
- IALA Maritime Buoyage System** Q 130
 Ice front, limits N 60
 Ice signal station T 30
 Illuminated P 63
 Imprint A 3
 In line M 1-2, P 20-21
 Inadequately surveyed area I 25
 Incineration area N 65
 Increasing B 65
 Industrial harbour G 146
 Inlet O 10
 Inn U 10
 Inner harbour G 140
 Inshore Traffic Zone M 25
 Installations, offshore L
 Installations, harbour G
 Institute G 74
 Intake G 177, L 41.1
 Intensified sector P 46
 Intermittent river C 21
 International
 abbreviations W
 boundary N 40-41
 chart number A 2
 Meridian (Greenwich) B 3
 Nautical Mile B 45
 Interrupted light P 10
 Intertidal area J 20-22
 Island, islet G 1-2
 artificial L 15
 Isogonal B 71
 Isolated danger mark Q 130.4
 Isophase light P 10.3
- Jetty** F 14
 Josshouse E 15
- Kelp** J 13
 Kilometre B 40
 Knoll O 36
 Knot B 52
- Ladder** U 7
 Lagoon G 13, O 8
 Lake C 23, O 6
 LANBY P 6, Q 26
 Land survey datum H 7, H 20
 Landing F 17
 area (seaplane) N 13

- Landing (contd)
 - beacon (cable) Q 123
 - lights G 117
 - public U 7
 - site (helicopter) D b, G 118
 - stairs, steps F 18, U 7
- Landmarks D 8, E
- Lane, submarine transit N 33
- Large J ab
- Large Automatic Navigational Buoy P 6, Q 26
- Lateral marks (IALA System)) Q 130.1
- Latitude B 1
- Lattice beacon Q 111
- Lattice tower G 68
- Laundrette U 22
- Lava C 26, J i
- Layered bottom J 12.1
- Leading
 - beacons Q 120
 - lights P 20
 - line M 1
- Least depth in narrow channel I 12
- Ledge O 28
- Leisure Facilities U
- Lesser O 86
- Levee F 1, O 65
- Lifeboat mooring T 13
- Lifeboat station T 12
- Lifting bridge D 23.3
- Light (in colour) J an
- Lights P
 - character P 10
 - colour P 11
 - description P 16
 - direction P 30-31
 - disposition P 15
 - elevation P 13
 - in line P 21
 - landing G 117
 - leading P 20
 - major floating P 6
 - marking fairways P 20-41
 - Moiré effect P 31
 - off chart limits Pb
 - on landmarks Pa
 - period P 12
 - range P 14
 - sector P 40-c
 - special P 60-65
 - structure P 1-5
 - times of exhibition P 50-b
- Light float, major P 6
- Light float, minor Q 30-31
- Light vessel P 6
- Lighted O 81
 - beacon P 3-4
 - marks Q 7-8
 - mooring buoy Q 41
 - offshore platform P 2
 - wreck K g
- Lighter Aboard Ship (LASH) G 184
- Lighthouse P 1
- Limits N
 - danger line K 1
 - dredged area I 20-23
 - gasfield, oilfield L 3-a
 - restricted area M 14, N 2, N 20-b
 - routing measure M 15
 - unsurveyed area I 25
- Linear scale A 13-14
- Liquified Natural Gas (LNG) G 185
- Liquified Petroleum Gas (LPG) G 186
- Local Magnetic Anomaly B 82
- Loch O 6
- Lock F 41
 - signal station T 24
- Log pond N 61
- Long-flashing light P 10.5
- Longitude B 2
- Lookout, pilot T 2
- Lookout station G 77
- Lough O 6
- Low Water H 4-20
- Lower light P 23
- Lowest Astronomical Tide H 2, H 20
- Machine house G 93
- Madrepore J g
- Magnetic B 61
 - anomaly B 82
- compass B 60-82
 - variation B 60-71
- Maintained channel I 23
- Major floating light P 6
- Major light P 1
- Manganese J n
- Mangrove C 32
- Manifold L d
- Marabout E 18
- Marginal notes A
- Marina U 1.1
 - facilities U 32
- Marine farm K 48
- Marine Reserve N 22
- Maritime limit N 1
- Marks
 - cardinal Q 130.3
 - coloured Q 101
 - distance B 25
 - isolated danger Q 130.4
 - lateral Q 130.1
 - lighted Q 7-8
 - minor Q 90-102
 - safe water Q 130.5
 - special Q 130.6
 - white Q 101
- Marked O 83
- Marker Ship buoy Q 52
- Marl J c
- Marsh C 33
- Mast G 67
 - mooring G 69
 - radar E 30.1
 - radio, television E 28
 - wreck K 25
- Maximum draught on track M 6
- Maximum speed N 27
- Mean Sea Level H 6, H 20
- Mean Tide Level H c, H 20
- Measured distance Q 122
- Median valley O 54
- Medium J 31
- Metre B 41
- Mile, nautical, sea B 45
- Mileage Mark F 40
- Military practice area N 30-34
- Mill G 83
- Millimetre B 44
- Minaret E 17
- Mine E 36
- Mine-laying practice area N 32
- Minefield N 34
- Minimum depth on route M 27.2
- Minor
 - light P 1
 - marks Q 90-102
 - post, pile F 22
- Minute B 5, B 50
- Mixed bottom J 12.2
- Moat O 57
- Moiré effect light P 31
- Mole F 12
- Monastery G 76
- Monument E 24
- Moored storage tanker L 17
- Mooring L 12, L b
 - berth number Q 42
 - ground tackle Q 42
 - lifeboat T 13
 - mast G 69
 - numerous Q 44
 - trot Q 42
 - visitors' U 3
- Mooring buoy Q 40
 - lighted Q 41
 - tanker L 16, Q 26
 - telephonic Q 43
- Morse Code light P 10.9
- Mosque E 17
- Motorway D 10
- Mount, Mountain G 23, O 32
- Mouth O 19
- Mud J 2
- Multi-storey building G 63
- Mussels J q
- Named anchorage area N 12.3
- Narrows O 15
- National limits N 40-49
- National Park N 22
- Natural features C
 - Natural inland features G 20-39
 - Natural watercourse I 16
 - Nature reserve N 22
 - Nature of the seabed J
 - Nautical mile, International B 45
 - Nautophone R 13
 - Naval port G 145
 - Naval College G 79
 - Navigation school G 78
 - Neap tides H 10-20
 - Nets, tunny K 44.2
 - New Edition date A 5
 - Nipa palm C 31.5
 - No Anchoring Area N 20
 - No bottom found I 13
 - Non-dangerous wreck K 29
 - Non-directional radiobeacon S 10
 - Non-English terms, abbreviations V
 - Non-tidal basin F 27
 - North B 9
 - North cardinal mark Q 130.3
 - North-east B 13
 - North-west B 15
 - Notes A
 - Notice board Q 126
 - Notice to Mariners A 6
 - Number, anchorage,
 - berth F 19, N 11-12, Q 42
 - Numerous moorings Q 44
 - Nun buoy Q 20
- Obelisk E 24
- Obscured sector P 43
- Observation platform L 13
- Observation spot B 21
- Observatory G 73
- Obstruction K 40-48
- Obstruction light, air P 61
- Occasional light P 50
- Occulting light P 10.2
- Ocean O 1
 - current H 43
- Ocean Data Acquisition System
 - (ODAS) buoy Q 26, Q 58
- Office G 72
 - custom F 61
 - Harbour Master's F 60
 - Health F 62.1
 - pilot T 3
- Offshore installations L
- Offshore platform, lighted P 2
- Offshore position, tidal levels H 47
- Ogival buoy Q 20
- Oil
 - barrier F 29
 - derrick L 10
 - harbour G 149
 - pipeline L 40.1
- Oilfield: L 1
 - name L 1
- Oily wastes, reception facilities G 175
- One-way track M 5.1, M 27.3
- Ooze J b
- Opening bridge D 23.1
- Orange P 11.7, Q a
- Ordnance Datum H d, H 20
- Ore harbour G 150
- Oter harbour G 141
- Outfall L 41.1
 - buoy Q 57
 - cooling water G 177
- Overfalls H 44
- Overhead
 - cable D 27
 - pipe D 28
 - transporter D 25
- Oysters J p
- Pack ice, limit N 60.2
- Paddy field G 36
- Pagoda E 14
- Painted board Q 102.2
- Palm C 31.4
- Parking, boat, car U 27-28
- Particularly Sensitive Sea Area (PSSA) N 22
- Partly O 88
- Passage O 13
- Patent slip F 23
- Path D 12

X Index

Peak G 25, O 35
Pebbles J 7
Peninsula G 4
Perch Q 91
Period of light P 12
Pharmacy U 16
Physician U 15
Pictorial symbols E 3.1
Pier F 14
 promenade F 15
 ruined F 33.2
Pile, piling F 22, G 179
Pile, piling (contd)
 row of G 180
 submerged K 43
Pillar E 24
 buoy Q 23
Pilot
 boarding place T 1
 cruising vessel position T 1
 helicopter transfer T 1.4
 lookout T 2
 office T 2-3
Pilotage T 1-4
Pinnacle O 29
Pipe, pipeline L 40-44
 land D 29
 overhead D 28
Plateau G 30, O 39
Platform L 2, L 10, L b, L 13-14, L 22, P 2
Point G 9
 fixed B 22
 radio reporting M 40
 symbols B 32
Pole Q 90
Police G 156
 water U 31
Polyzoa J y
Pontoon F 16
 bridge D 23.5
Ports F
 types G 130-c
 control signal station T 23
Position B 22
 approximate B 7
 beacon, buoy Q 1
 doubtful B 8
 fog signal R 1
 geographical B 1-16
 pilot cruising vessel T 1
 tidal data H 30, H 46
Position-fixing systems S
Post F 22
 box U 24
 Office F 63
 submerged K 43
Power
 cable L 31
 transmission line D 26
 station G 88
Practice area (military) N 30-34
Precautionary area M 16, M 24
Preferred channel buoy Q 130.1
Private buoy Q 70
Private light P 50, P 65
Production platform L 10
Production well L 20
Prohibited O c
 anchoring N 20
 area N 2.2, N 31
 fishing N 21
Projected O 80
Promenade pier F 15
Prominent O d
Promontory G 20
Province O 66
Provisions U 13
Pteropods J x
Public
 buildings F 60-63
 house U 10
 landing U 7
 telephone U 25
 toilets U 23
Publication note A 4
Pumice J j
Pump house G 93
Pylon D 26
Pyramid G 65

QTG service S 15
Qualifying terms, seabed J 30-ao
Quarantine anchorage N 12.8
Quarantine building F 62.1
Quarry E 35
Quartz J f
Quay F 13
Quick light P 10.6
Races H 44
Racing mark Qd
Racon S 3
Radar S 1-5
 beacon, transponder S 2-3
 conspicuous S 5
 dome, mast, scanner, tower E 30
 range M 31
 reference line M 32
 reflector Q 10-11, S 4
 station S 1
 surveillance system M 30-32
Radio S 10-16
 direction-finding station S 14
 mast, tower E 28-29
 reporting line, point M 40
 station, QTG service S 15
Radiobeacon S 10-16
Radiolaria J w
Radome E 30
Rail Traffic G 110-118
Railway, railway station D 13
Ramark S 2
Ramp F 23
Range G 21
Rapids C 22
Ravine G 32
Rear light P 22
Reception facilities, oily wastes G 175
Reclamation area F 31, G 136
Recommended
 direction of traffic flow M 11, M 26
 route M 28.1
 track M 3-4, M 6
Recreation zone buoy Q 62
Red J aj, P 11.2, Q 3, Q a
Reed R 13
Reef J 22, K 16, O 26
Refinery G 87
Reflector, radar Q 10-11, S 4
Refrigerated storage house G 86
Refuge beacon Q 124, T 14
Refuse bin U 26
Relief C 10-14
Reported anchorage N 10
Reported depth I 3-4
Reporting, Radio M 40
Rescue station T 11-12
Research platform L 13
Reserve fog signal R 22
Reserved anchorage area N 12.9
Reservoir G 135
Resilient beacon P 5
Restaurant U 11
Restricted area M 14, N 2.1
Restricted light sector P 44
Retroreflecting material Q 6
Ridge G 22, O 30
Rise O 31, O 46
River C 20-21
Road D 10-12
Road traffic G 110-118
Roads, roadstead O 20
Rock G 11, J 9.1, K 10-15
 area J 21
Rocket station T 12
Roll-on, Roll-off (RoRo) ferry terminal F 50
Rotating pattern radiobeacon S 12
Roundabout, traffic separation M 21
Route M 27-28
Routing measures M 10-a
Row of piles G 180
Ruin D 8, F 33
Runway G 116
Saddle O 64
Safe clearance depth K 3
Safe vertical clearance D 26, H 20
Safe water marks Q 130.5
Safety fairway M a
Safety zone L 3

Sailing club U 4
Sailmaker U 8
Sailors' home G 97
Saint G 54
Salt pans C 24
Saltings, salt marsh C 33, G 12
Sand J 1
Sandhills, Sand dunes C 8
Sandwaves J 14
Sandy shore C 6
Satellite navigation systems S 50
Scanner, radar E 30.3
Scarp O 61
School G b, G 78
Scoriae J 1
Scrubbing grid F 24
Sea O 2
 ice limit N 60.2
 mile B 45
 moat O 57
 sea loch O 6
Seabed operations N a
Seabed, types of J 1-2
Sea channel O 56
Seal A 12
Seal sanctuary N 22
Seamount O 33-34
Seaplane
 anchorage N 14
 anchorage buoy Q 60
 landing area N 13
Seasonal sea ice limit N 60.2
Seasonal buoy Q 71
Seawall F 2
Second B 6, B 51
Sector
 faint P 45
 intensified P 46
 lights P 40-41
 obscured P 43
 restricted P 44
 unintensified P c
Separation line M 12
Separation zone M 13, M 20
Settlements D 1-8, G 50-54
Sewage works G 92
Sewer L 41
Shapes, Buoy Q 20-26
Shed, transit F 51
Sheerlegs F 53.3
Shelf O 42-43
Shellfish bed K 47
Shells J 11
Shingle J d
Shingly shore C 7
Shinto shrine E 15
Ship lift G 131
Shipyard G 189
Shoal O 25
Shoaled O 91
Shore, shoreline C 1-8
Showers U 21
Side arm O 68
Signal station T 20-31, T 33-36
Sill O 62
Silo E 33
Silt J 4
Single Buoy Mooring (SBM) L 16, Q 26
Single Point Mooring (SPM) L 12
Single Well Oil Production System (SWOPS) L c
Siren R 12
Sketches E 3.2
Slip G 171
Slipway F 23, U 5
Slope O 44-45
Sluice G 133
Small J aa
Small craft anchorage N a
Small craft facilities U
Snags K 43
Soft J 35
Sound O 12
Soundings I 1-24
Sources (diagram) A 17
South B 11
South cardinal mark Q 130.3
South-east B 14
South-west B 16
Spa hotel G 98
Spar buoy Q 24

- Special lights P 60-65
Special marks Q 130.6
Special purpose buoys Q 50-62
Special purpose beacons Q 120-126
Speckled J ad
Speed Limit N 27
Spherical buoy Q 22
Spindle buoy Q 24
Spire E 10.3
Spit G 10
Spoil ground N 62
 buoy Q 56
Sponge J r
Spot heights C 11-13
Spring, seabed J 15
Spring tides H 8-20
Spur O 41
Stake K 44.1, Q 90-91
Stations
 bunker G 174
 coastguard T 10-11
 coast radar M 30, S 1
 coast radio S 14-15
 fuel U 18
 lookout G 77
 railway D 13
 rescue T 11-13
 signal T 20-36
Steep coast C 3
Steps F 18, U 7
Sticky J 34
Stiff J 36
Stones J 5
Stony shore C 7
Storage tanker G 183, L 17
Storehouse G 85
Storm signal station T 28
Strait O 11
Stranded wreck K 20-21, K 24
Stream C 20
Street D 7, G 110
Strip light P 64
Stumps K 43
Submarine
 cable L 30-32
 exercise area N 33
 pipeline L 40-44
 transit lane N 33
Submerged O 90
 rock, beacon on Q 83
Subsidiary light P 42
Summit G 24
Sunken rock O 27
Superbuoy L 16, P 6, Q 26, Q 58
Supply pipeline L 40
Surveyed coastline C 1
Suspended well L 21, L c-d
Suspension bridge G 114
Swamp C 33
Swept area, depth I 24, K 2
Swing bridge D 23.2
Swinging circle N 11.2
Symbols in plan B 30
Symbols in profile B 31
Synchronized Pd
Tableland G 29
Tablemount O 38
Tank E 32
Tanker
 anchorage area N 12.5
 cleaning facilities G 176
 mooring buoy L 16, Q 26
 storage G 183, L 17
Tap, water U 17
Target buoy Q 51
Telegraph
 line D 27
 office G 95
 station T 27
Telephone line D 27
Telephone, public U 25
Telephonic mooring buoy Q 43
Television mast, tower E 28-29
Template L d
Temple E 13-16
Temporary light P 54
Terminal G 170
Terrace O 40
Territorial Sea limit N 43
Territorial Sea, straight baseline N 42
Tidal
 barrier G 130
 basin F 28
 gully O 67
 harbour F 28
 light P b
Tidal level H 1-30
 station, offshore H 47
 table H 30
Tidal stream H 31-f
 ebb, flood H 40-41
 station H 46
 signal station T 34
 table H 30
Tide
 gauge, scale T 32
 rips H 44
 signal station T 33
Tideway O 67
Timber harbour G 153
Timber yard F 52
Time signal station T 31
Toilets U 23
Ton, tonne, tonnage B 53
Topmark Q 9-11, Q 102.1
Topographic terms G
Tower E 20
 beacon P 3, Q 110
 church E 10.2
 lattice G 68
 radar E 30.2
 radio, television E 29
 watch G 77
 water E 21
Town G 50
Town Hall G 71
Track D 12, M 1-6, M 27
Trade port G 147
Traffic (road, rail, air) G 110-118
Traffic flow, direction M 10-11, M 26
Traffic Separation Scheme M 10-25
 buoy Q 61
Traffic signal T 21-22, T 25.2
Traffic surveillance station M 30
Trailer park U 28
Training wall F 5
Tramway D a, G 112
Transshipment facilities F 50-53
Transshipment area N 64
Transit M 2
 lane N 33
 shed F 51
Transmitter, Automatic Identification
 System S 17.1-17.2
Transponder beacon S 3
Transporter D 24-25
Trap, fish K 44.2-45
Travelling crane F 53.1
Trees C 31
 height to top C 14
Trench O 51
Triangulation point B 20
Trot, mooring Q 42
Trough O 52
True (compass) B 63
Tufa J k
Tun buoy Q 25
Tunnel D 16
Tunny nets K 44-45
Turbine E 26-1, L 5-1, L 24
Turning area O 69
Turning basin O 69
Turning circle O 69
Two-way route M 27.2 M 28.2
Two-way track M 4
Tyfon R 13
Types of seabed J 1-z
Ultra quick light P 10.8
Ultra Large Crude Carrier (ULCC) G 188
Uncovers K c
Under construction, reclamation F 30-32
Underwater installations L 20-f
Underwater rock K 11-15
Underwater Turbine L 24
Unexamined depth I a
Unintensified sector P c
Units Aa, B 40-54
Unmanned, unwatched light P 53
Unsurveyed
 area I 25
 coastline C 2
 wreck K 28-30
Upper light P 22
Urban area D 1
Valley G 31, O 53-54
Variable arrow light P 31
Variation B 60, B 68.1, B 68.2
Vegetation C 30-33, G 34
Vertical
 clearance D 20, D 22-28
 colour stripes Q 5
 lights P 15
Very Large Crude Carrier (VLCC) G 187
Very quick light P 10.7
Viaduct G 113
Viewpoint B a
Views E 3.2
Village D 4, G 51-52
Violet P 11.5
Visitors' berth, mooring U 2-3
Volcanic J 37
Volcano G 26
Wall, training F 5
Warehouse F 51, G 85
Watch tower G 77
Water
 discoloured K d
 features C 20-25
 mill G 83
 pipe, pipeline L 40-41
 police U 31
 tap U 17
 tower E 21
 works G 91
Waterfall C 22
Wave recorder H e
 buoy Q 59
Wave-actuated fog signal R 21-22
Way point M 40
Weather signal station T 29
Weed J 13.1
Weir F 44
Weir, fish K 44.2
Well G 94
 head L 23
 production L 20
 suspended L 21
West B 12
West cardinal mark Q 130.3
Wet dock F 27
Wharf F 13, G d
Whistle R 15
White J ae, P 11.1, Q a
White mark Q 101
Wind farm E 26.2, L 5.2
Wind signal station T 29
Windmill E 25
Windmotor E 26
Wind turbine E 26.1, L 5.1
Wire drag sweep I 24, K 2
Withy Q 92
Woodland, woods C 30, G 38-39
Works G 81-92
Works in progress F 30-32
World Geodetic System (WGS) A3, S 50
Wreck K 20-31
 buoy Q b
 historic N 26
 lighted K f
Yacht berth, harbour U 1
Yacht club U 4
Yard
 building G 172
 buoy G 173
 timber F 52
Yellow J ai, P 11.6, Q 3, Q a
Zone
 fracture O 60
 inshore traffic M 25
 separation M 13, M 20

NOTES