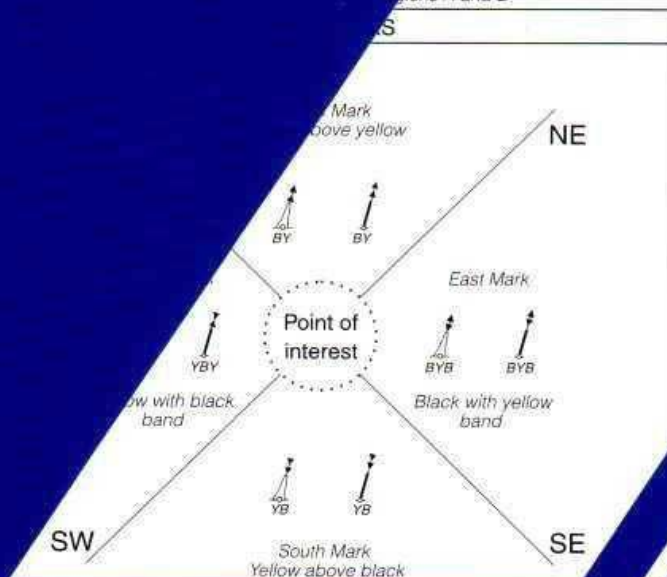




SYMBOLS AND ABBREVIATIONS USED ON ADMIRALTY PAPER CHARTS

CHART 5011
 (INT 1)
 Edition 4

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



SYMBOLS and ABBREVIATIONS

used on Admiralty Charts

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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.

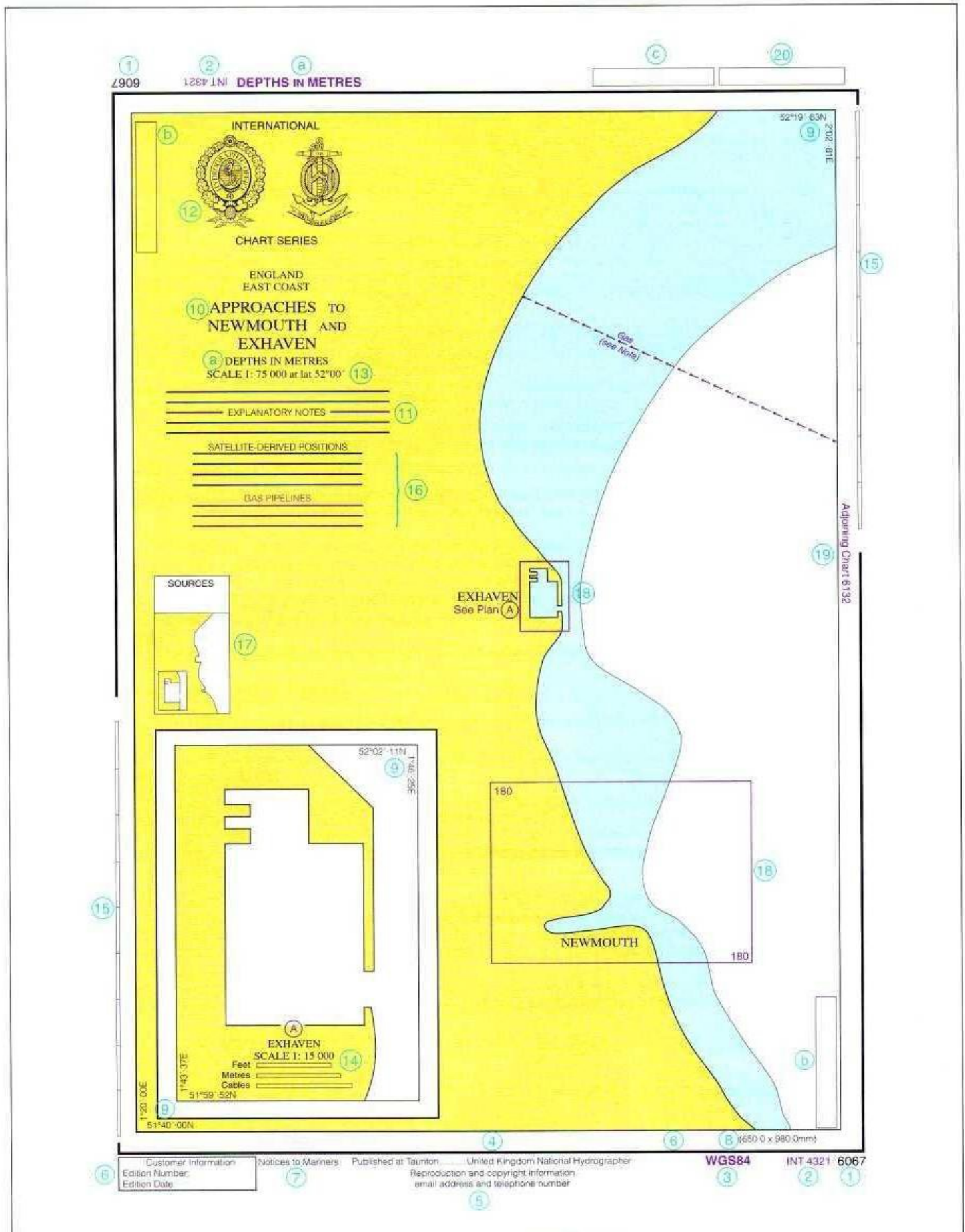
Drying heights

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: - if the retention of a superseded rendering will facilitate cross-reference to related publications; - if, in the case of a name that has changed radically, the retention of the former one will aid recognition; - 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)



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
a 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
b Conversion scales. To allow approximate conversions between metric and fathoms and feet units. On older charts, conversion tables are given instead.	280
c 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		307 361.3
25.2		Distance along waterway, with visible marker		
a		Viewpoint	◊ See View	390.2

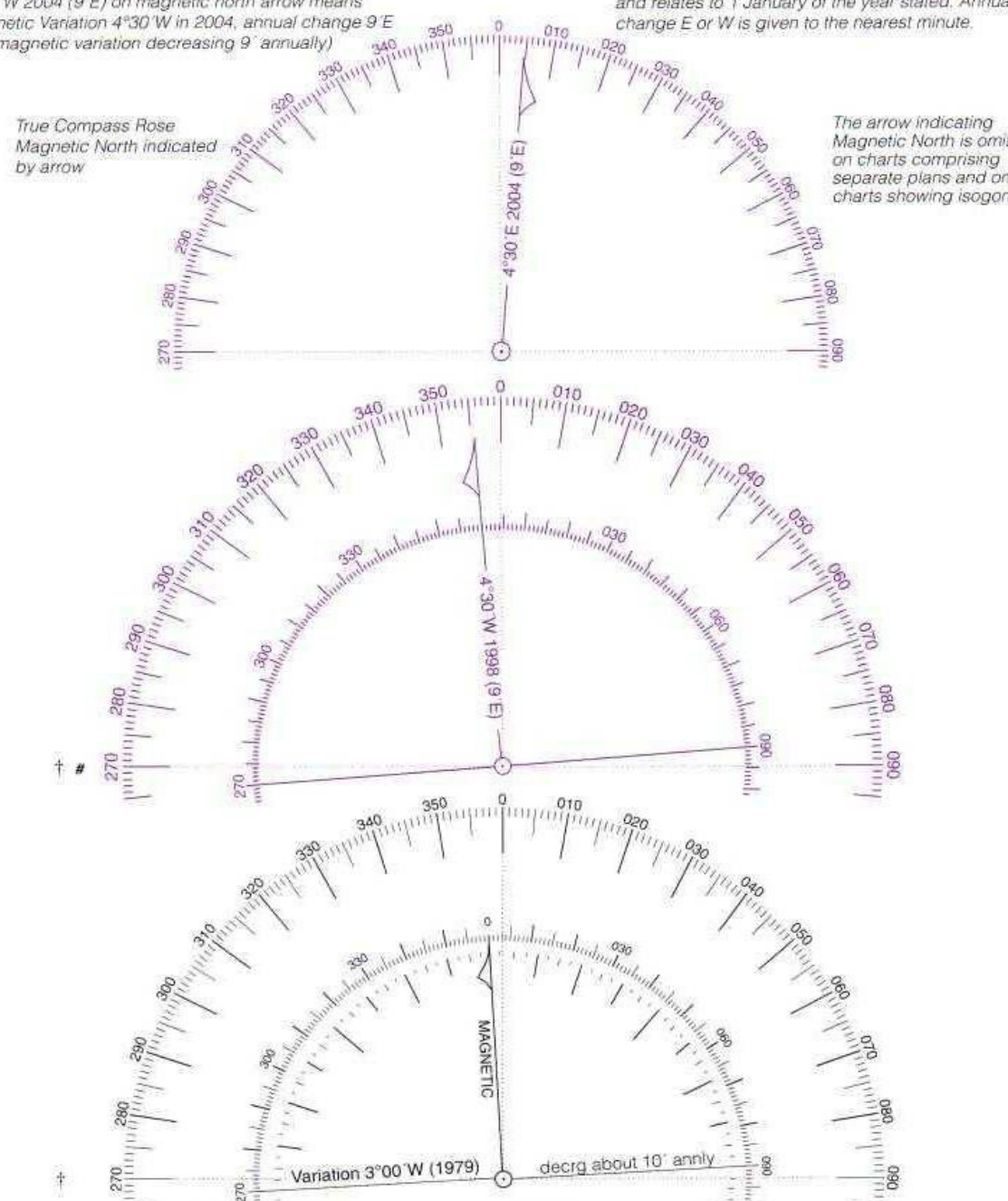
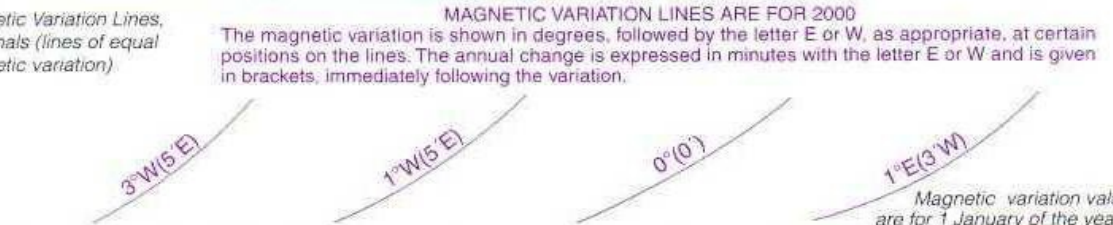
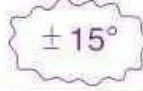
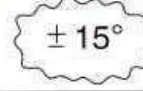
Symbolised Positions (Examples)				
30		Symbols in plan: position is centre of primary symbol		305.1
31		Symbols in profile: position is at bottom of symbol		305.1
32	◊ Mast ◊ MAST ★	Point symbols (accurate positions)		305.1 340.5
33	◊ Mast PA	Approximate position	† ◊ Mast PA	305.1

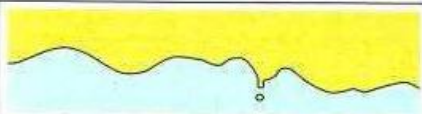
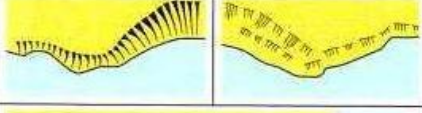
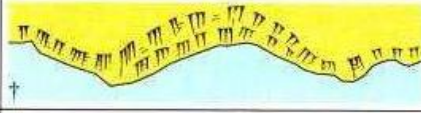
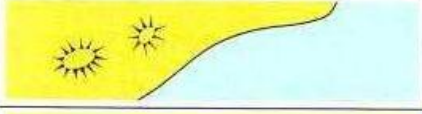
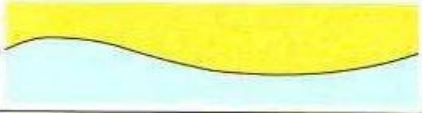
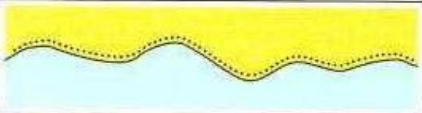
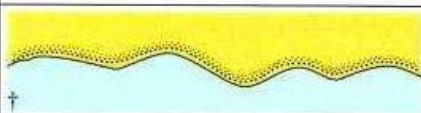
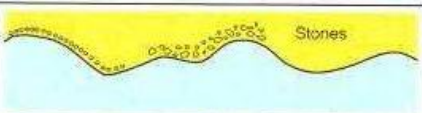
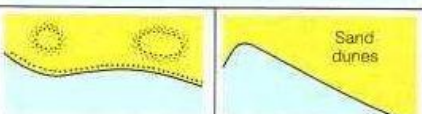
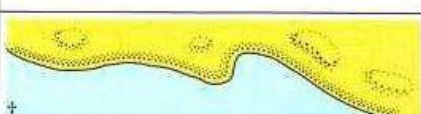
Positions, Distances, Directions, Compass **B**

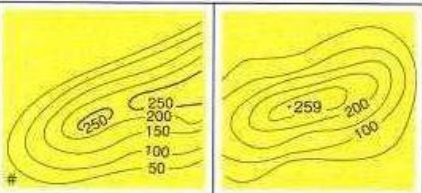
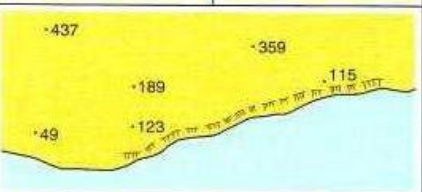
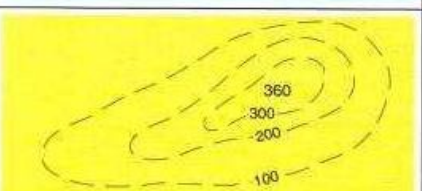
				Units
40	km	Kilometre(s)		
41	m	Metre(s)		130
42	dm	Decimetre(s)		130
43	cm	Centimetre(s)		
44	mm	Millimetre(s)		130
45	M	International Nautical Mile(s) (1852m) or Sea Mile(s)	n mile(s) M	130
46		Cable (0.1M)		130
47	ft	Foot/feet		
48		Fathom(s)	fms., fms.	
49	h	Hour		130
50	# m	min	Minute(s) of time	130
51	s	# sec	Second(s) of time	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	Magnetic Variation: 4°30' W 2007 (10° E)	

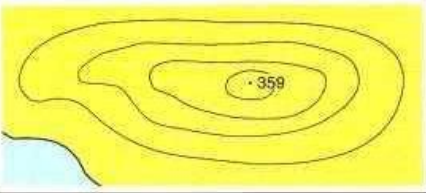
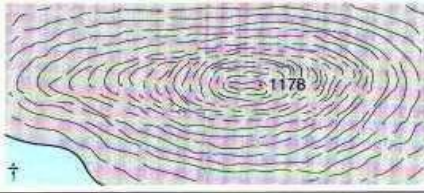
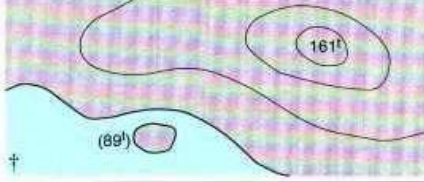
B Positions, Distances, Directions, Compass

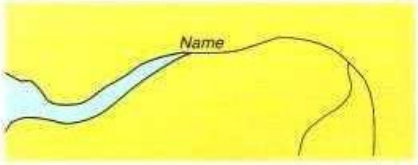
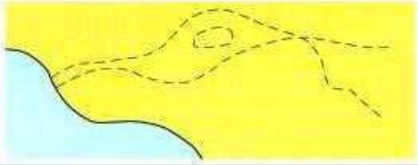
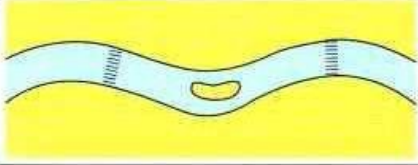
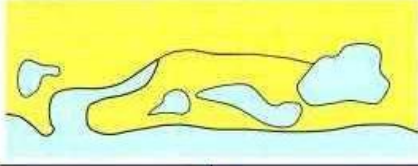
70	Compass Roses, True and Magnetic. 4°30' W 2004 (9° E) on magnetic north arrow means Magnetic Variation 4°30' W in 2004, annual change 9° E (i.e. magnetic variation decreasing 9° annually) Magnetic Variation is expressed to the nearest 5° and relates to 1 January of the year stated. Annual change E 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. 			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)	

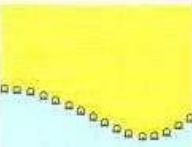
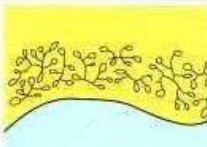
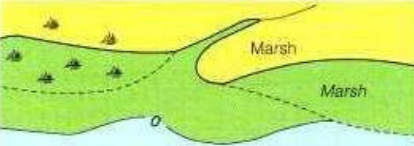
Foreshore → I, J			Coastline	
1		Coastline, surveyed		310.1 310.2
2		Coastline, unsurveyed		311
3		Steep coast, Cliffs		312.1
4		Hillocks		312.1
5		Flat coast		312.2
6		Sandy shore		312.2
7		Stony shore, Shingly shore		312.2
8		Sandhills, Dunes		312.3

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

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	Marsh, Swamp, Salt marsh	312.2

D Cultural Features

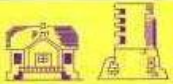
Settlements, Buildings			Height of objects → E	Landmarks → E
1			Urban area	370.3 370.4
2			Settlement with scattered buildings	370.5
3			Settlement (on medium and small-scale charts)	370.7
4			Inland village	370.6
5			Building	370.5
6			Important building in built-up area	370.3
7			Street name, Road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

Roads, Railways, Airfields			Height of objects → E	Landmarks → E
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	

Plane of Reference for Heights → H		Other Cultural Features	
20		Vertical clearance above Height Datum (in parentheses when displaced for clarity)	
21		Horizontal clearance	
22		Fixed bridge with vertical clearance	
23.1		Opening bridge (in general) with vertical clearance	
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	
25		Overhead transporter, Aerial cableway with vertical clearance	
26		Power transmission line with pylons and safe vertical clearance (see Note below D29)	
27		Overhead cable, Telephone line, Telegraph line with vertical clearance	
28		Overhead pipe with vertical clearance	
29		Pipeline on land	

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.

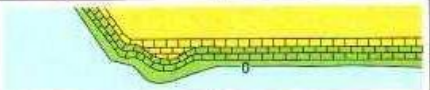
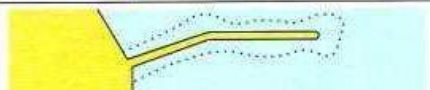
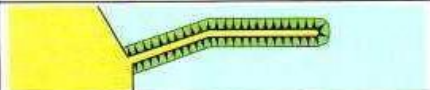
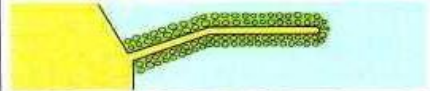
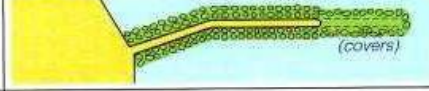
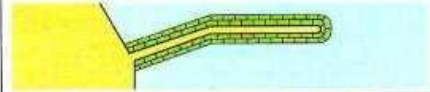
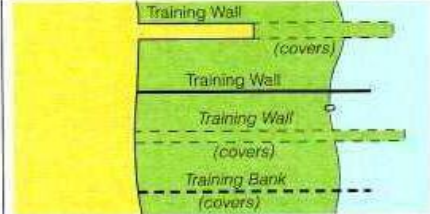
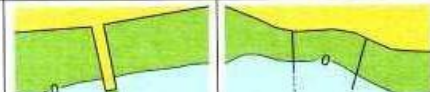
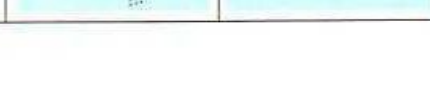
E Landmarks

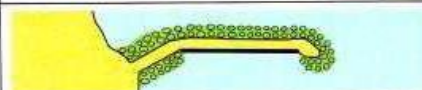
General	Plane of Reference for Heights → H	Lighthouses → P	Beacons → Q
1	 Factory  Hotel	Examples of landmarks	340.1 340.2 340.5
2	 FACTORY  HOTEL  WATER TOWER	Examples of conspicuous landmarks. A legend in capital letters indicates that a feature is conspicuous	 conspic. 340.1 340.2 340.3 340.5
3.1		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

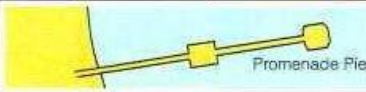
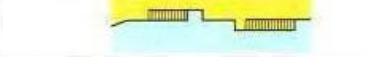
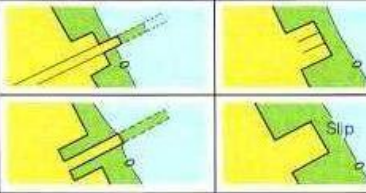
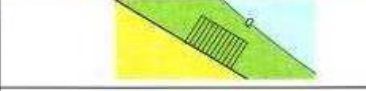
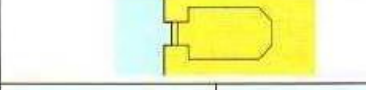
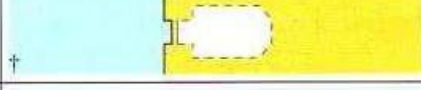
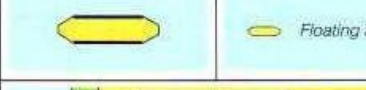
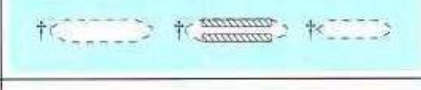
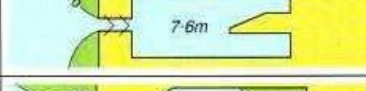
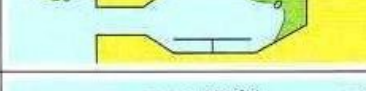
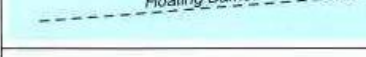
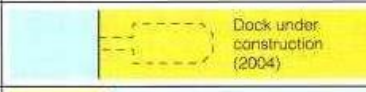
Landmarks					
10.1	 	Ch	Church, Cathedral	 	373.1 373.2
10.2	 	Tr	Church tower		373.2
10.3	 	Sp	Church spire		373.2
10.4	 	Cup	Church cupola		373.2
11			Chapel	 	
12			Cross, Calvary	 	
13			Temple		373.3
14			Pagoda		373.3
15			Shinto shrine, Joss house		373.3
16	 		Buddhist temple or shrine	 	373.3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

20		Tr	Tower		374.3
21			Water tower, Water tank on a tower		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	 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		487.3
30.2			Radar tower		
30.3			Radar scanner		
30.4			Radome		
31			Dish aerial	 	375.4
32		Tanks	Tanks	 	376.1 376.2
33	 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

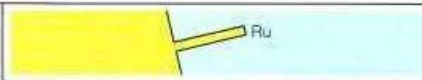
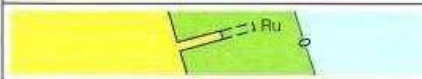
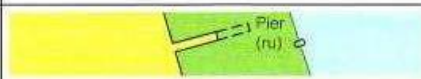
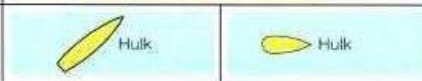
F Ports

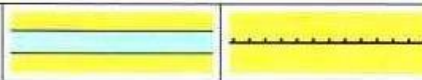
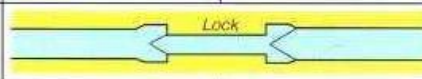
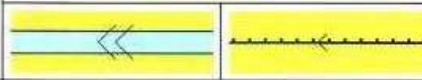
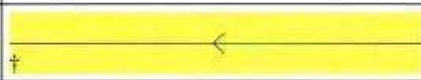
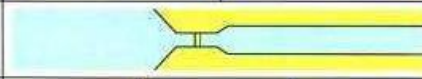
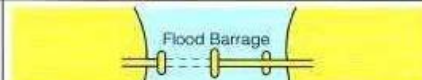
Protection Structures					
1			Dyke, Levee, Berm		313.1
2.1			Seawall (on large-scale charts)		313.2
2.2			Seawall (on smaller scale charts)		
3			Causeway		313.3
4.1			Breakwater (in general)		322.1
					
					
4.2			Breakwater (loose boulders, tetrapods, etc)		
4.3			Breakwater (slope of concrete or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

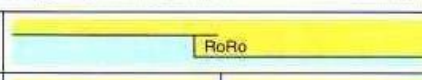
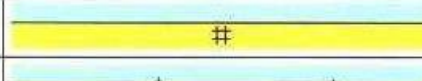
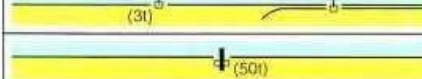
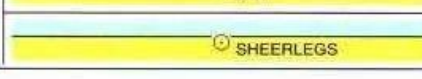
Harbour Installations	Depths → I	Anchorage, Limits → N	Beacons and other fixed marks → Q	Marina → U
10		Fishing harbour		320.1
12			Mole (with berthing facility)	321.3
13			Quay, Wharf	Whf 321.1

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 (B) 234	Designation of berth	† ④	323.1
20	● □ □ Dn □ Dns	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 † constn † constn	329 329.4

F Ports

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

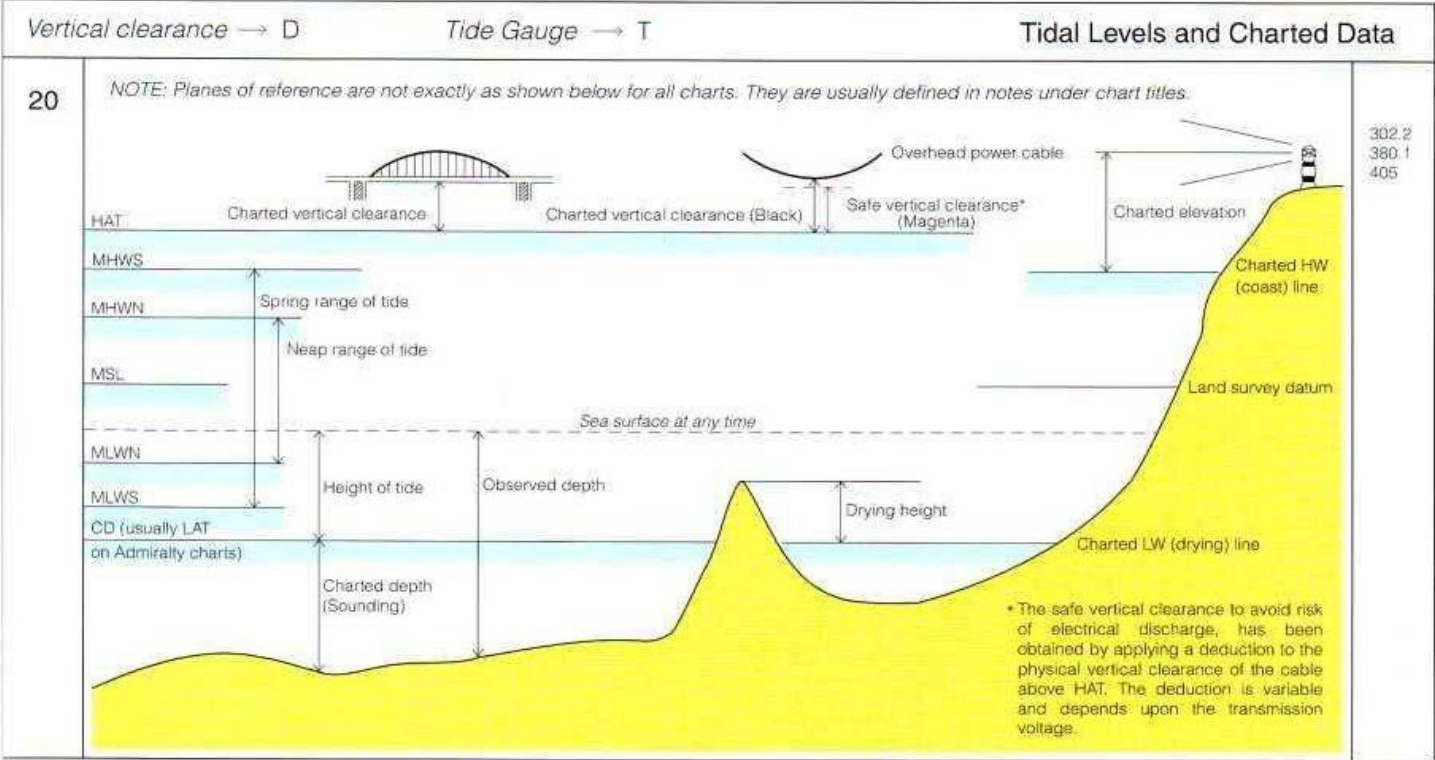
Rivers, Canals, Barrages		Clearances → D	Signal Stations → T	Cultural Features → D	
40		Canal			361.6
41.1		Lock (on large-scale charts)			326.6 361.6
41.2		Lock (on smaller scale charts)			
42		Caisson, Gate			326.5
43		Flood barrage			326.7
44		Dam, Weir → Direction of flow			364.2

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	Directions of streams (degrees)	-6				No
High Water	Rates at spring tides (knots)	-5				Maximum Rates
After High Water	Rates at neap tides (knots)	-4				For predictions, use Admiralty Tide Tables
		-3				
		-2				
		-1				
		0				
		+1				
		+2				
		+3				
		+4				
		+5				
		+6				

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)		
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	40 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	184 212	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	•(4 ₉) + (12) 3349	Sounding out of position	* (8 ₃) (10 ₄) # + 1 ₈ 8 ₇ Z ₁	412 412.1 412.2
12	(14 ₇)	Least depth in narrow channel		412 412.1 412.2
13	330	No bottom found at depth shown		412 412.1 412.2
14	12 9 ₁	Soundings taken from old or smaller scale sources shown in upright, hairline figures		412 412.1 412.2
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	7.0m 3.5m	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	17m (2006) Dredged to 8.2m (2006)	Dredged channel or area with depth of dredging and year of the latest control survey		414.1
23	17.0m Maintained depth 13.5m	Dredged channel or area with depth regularly maintained		414.2

I Depths

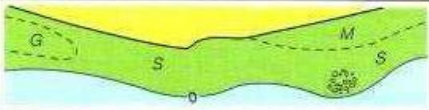
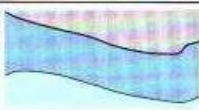
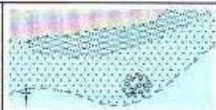
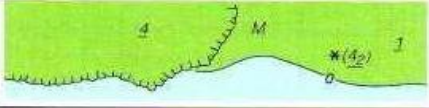
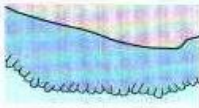
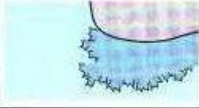
24		Area swept by wire drag. The depth is shown at Chart Datum. (The latest date of sweeping may be shown in parentheses)		415 415.1
25		Unsurveyed or inadequately surveyed area; area with inadequate depth information		410 417 417.6 417.7

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: 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

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	
9.2	Bo	Boulder(s)		421.2
10	Co	Coral	† corl	
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	S,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		Coze	† Oz	
c		Marl	† Ml	
d		Shingle	† Sn shin	
e		Chalk	† Ch chk	
f		Quartz	† Qz qrtz	
g		Madrepore	† Md mad	
h		Basalt	† Ba	
i		Lava	† Lv	
j		Pumice	† Pm pum	
k		Tufa	† T	
l		Scoriae	† Sc	
m		Cinders	† Cr cin	

J Nature of the Seabed

n		Manganese	†	Mn	man	
o		Glaucinite	†	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		Polychaeta	†	Pa	pol	

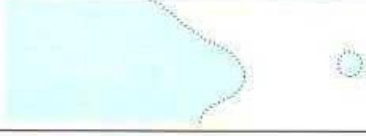
Intertidal Areas						
20		Area of sand and mud with patches of stones or gravel				426.1
21		Rocky area				426.2
22		Coral reef				426.3

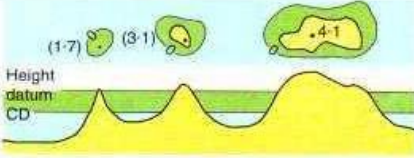
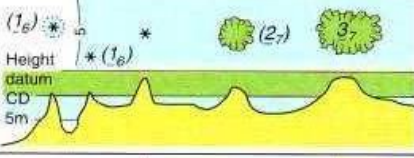
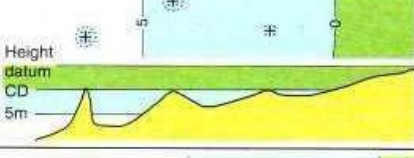
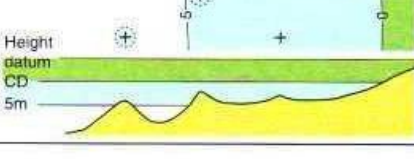
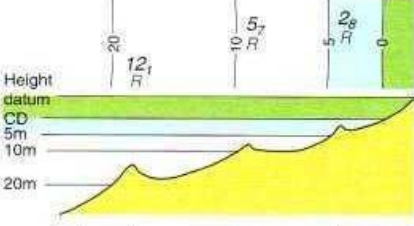
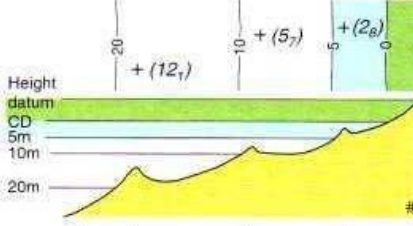
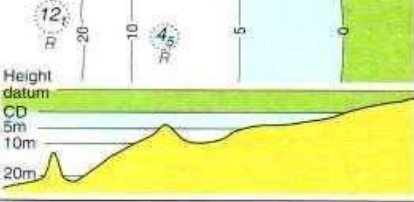
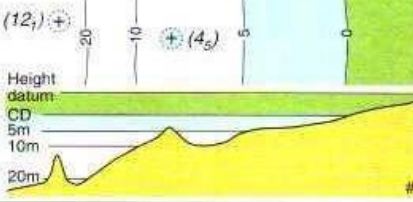
Qualifying Terms						
30	i	Fine	} only used in relation to sand			425
31	m	Medium				427
32	c	Coarse				
33	bk	Broken	†	brk		
34	sy	Sticky	†	stk		
35	so	Soft	†	sft		
36	st	Stiff	†	stf		
37	v	Volcanic	†	vol		
38	ca	Calcareous	†	cal		
39	h	Hard				425.5 425.7

Nature of the Seabed J

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

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**

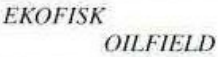
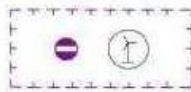
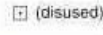
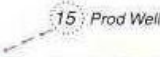
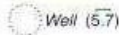
15		Underwater rock of known depth, not dangerous to surface navigation		421.4
16		Coral reef which is always covered		421.5
17		Breakers		423.2
d		Discoloured water	Discol † Discold	424.6

	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	†	422.1
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	†	

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		

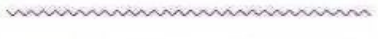
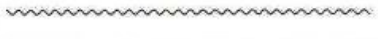
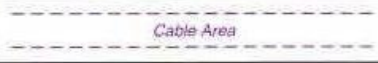
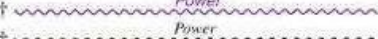
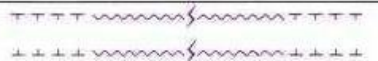
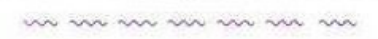
Obstructions		Plane of Reference for Depths → H	Kelp, Seaweed → J	Underwater Installations → L	
40					422.9
41					422.9
42					422.9
43.1					327.5
43.2					
44.1					447.1
44.2					447.2
45					447.3
46.1					447.5
46.2					
47					447.4
48.1					447.6
48.2					

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		Flare stack (at sea)		445.2
12		Fixed Single Point Mooring, including Single Anchor Leg Mooring (SALM), Articulated Loading Column (ALC)		445.2 445.4
13		Observation / research platform (with name)		
14		Disused platform		
15		Artificial Island		
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	 	Production well, with depth where known		445.5
21.1		Suspended well (wellhead and pipes projecting from the seabed) over which the depth is unknown		445.1
21.2		Suspended well over which the depth is known		445.1
21.3		Suspended well with height of wellhead above the sea floor		
22		Site of cleared platform		422.8

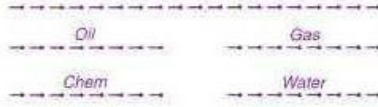
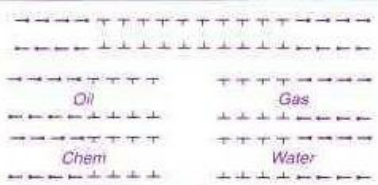
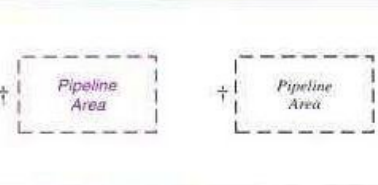
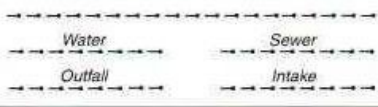
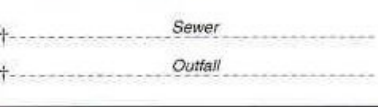
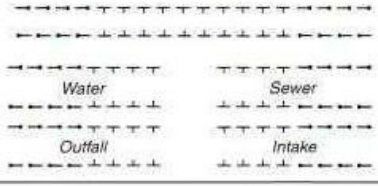
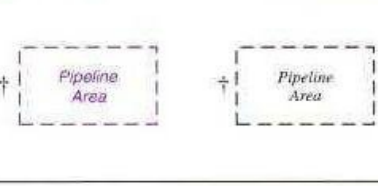
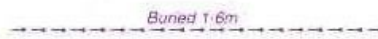
L Offshore Installations

23	 Pipe	 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.	 93: 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

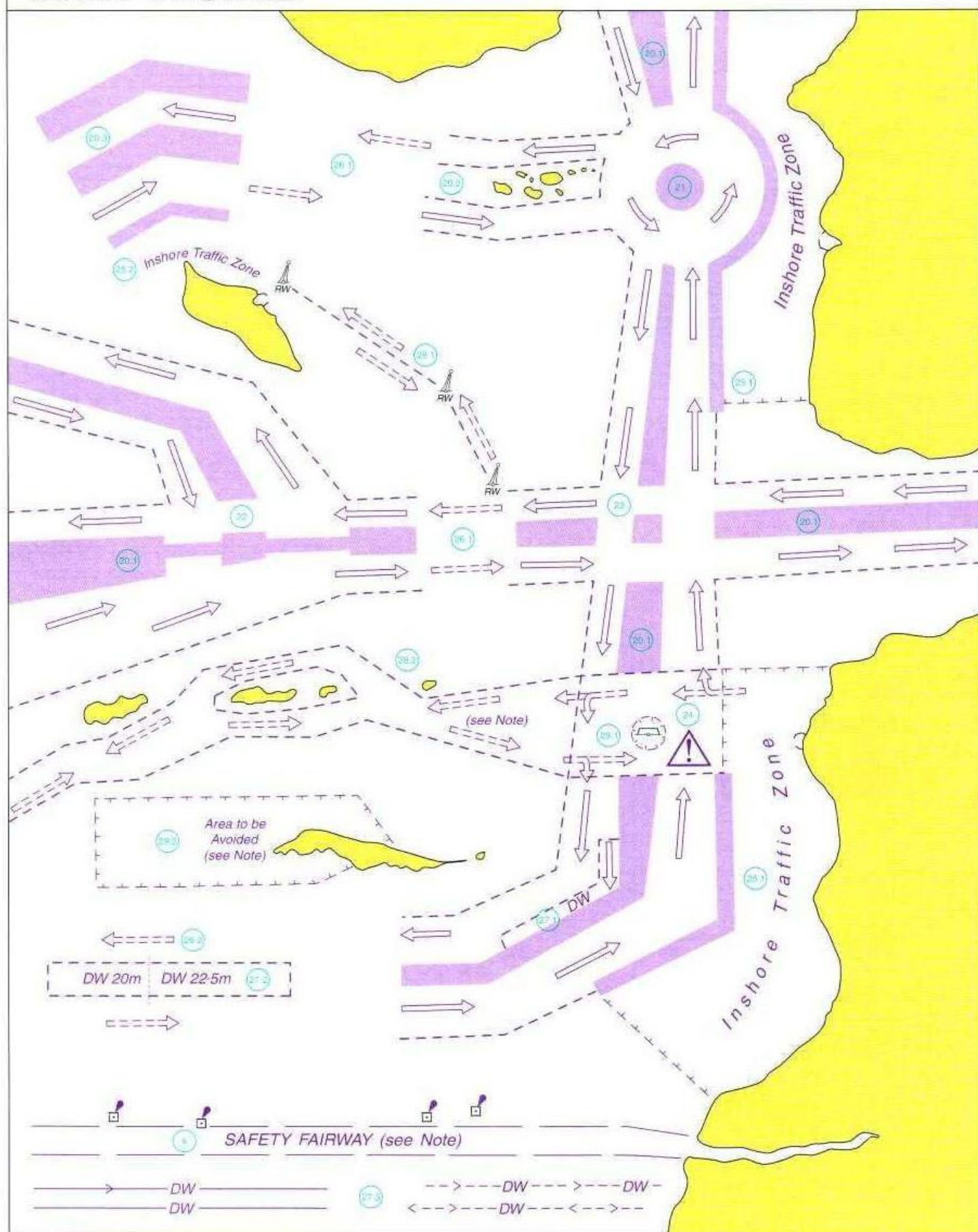
Tracks Marked by Lights → P		Leading Beacons → Q	Tracks	
1		Leading line (± means "in line", the continuous line is the track to be followed)		433.1 433.2 433.3
2		Transit (other than leading line), Clearing line		433.4 433.5
3		Recommended track based on a system of fixed marks		434.1 434.2
4		Recommended track not based on a system of fixed marks		434.1 434.2
5.1		One-way track and DW track based on a system of fixed marks		432.3
5.2		One-way track and DW track not based on a system of fixed marks		
6		Recommended track with maximum authorised draught		432.4 434.3 434.4

Routing 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 routing measure (e.g. Inshore Traffic Zone, Area to be Avoided)		435.1 436.3 439.2
15		Limit of routing measure		435.1 436.3
16		Precautionary area		435.2
17		Archipelagic Sea Lane: axis line and limit beyond which vessels shall not navigate		435.10
18		Fairway, designated by regulatory authority with minimum depth with maximum authorised draught		

± The term 'recommended' in connection with tracks and routing 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 Routeing Measures

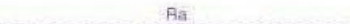


Examples of Routeing Measures (see diagram on page 34)

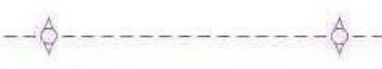
20.1	Traffic separation scheme (TSS), traffic separated by separation zone	435.1
20.2	Traffic separation scheme, traffic separated by natural obstructions	435.1
20.3	Traffic separation scheme, with outer separation zone, separating traffic using scheme from traffic not using it	435.1
21	Traffic separation scheme, roundabout	435.1
22	Traffic separation scheme with "crossing gates"	435.1
23	Traffic separation schemes crossing, without designated precautionary area	435.1
24	Precautionary area	435.2
25.1	Inshore traffic zone (ITZ), with defined end limits	435.1
25.2	Inshore traffic zone, without defined end limits	435.1
† 26.1	Recommended direction of traffic flow, between traffic separation schemes	435.5
† 26.2	Recommended direction of traffic flow, for ships not needing a deep water route	435.5
27.1	Deep water route (DW), as part of one-way traffic lane	435.3
27.2	Two-way deep water route, with minimum depth stated	435.3
27.3	Deep water route, centre line shown as recommended one-way or two-way track	435.3
† 28.1	Recommended route (often marked by centre line buoys)	435.4
28.2	Two-way route with one-way sections	435.6
29.1	Area to be avoided (ATBA), around navigational aid	435.7
29.2	Area to be avoided, because of danger of stranding	435.7
30	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.

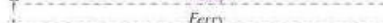
Radar Surveillance System

30	 Radar Surveillance Station	Radar surveillance station		487 487.3
31	 Ra Cuxhaven	Radar range		487.1
32.1	 Ra	Radar reference line		487.2
32.2	 Ra 090° - 270°	Radar reference line coinciding with a leading line		

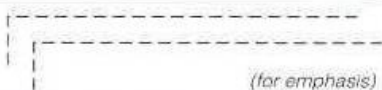
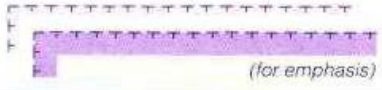
Radio Reporting

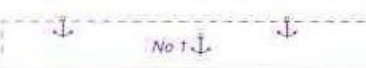
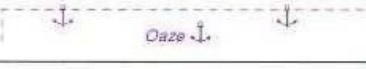
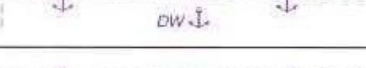
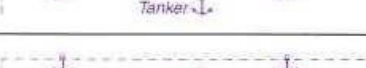
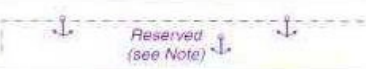
40.1		Radio calling-in point, way point, or reporting point (with designation, if any) showing direction(s) of vessel movement		488
40.2		Radio reporting line (with designation, if any) showing direction(s) of vessel movement		488.1

Ferries

50		Ferry		438.1
51		Cable Ferry		438.2

N Areas, Limits

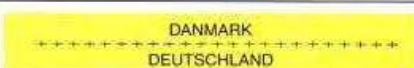
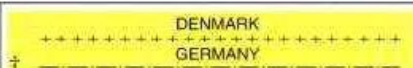
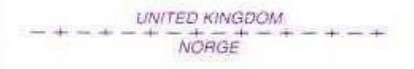
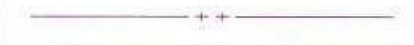
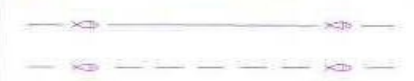
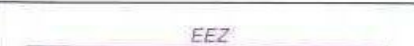
General	Dredged and Swept Areas → I	Submarine Cables, Submarine Pipelines → L	Tracks Routes → M	
1.1		Maritime limit in general, usually implying permanent physical obstructions		439.1 439.6
1.2		Maritime limit in general, usually implying no permanent physical obstructions		
2.1		Limit of restricted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

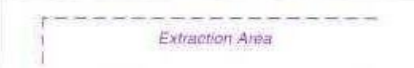
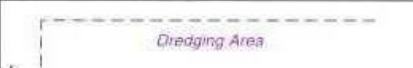
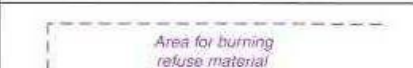
Anchorages, Anchorage Areas				
10		Reported anchorage (no defined limits)		431.1
11.1		Anchor berths		431.2
11.2		Anchor berths with swinging circle shown		
12.1		Anchorage area in general		431.3
12.2		Numbered anchorage area		
12.3		Named anchorage area		
12.4		Deep water anchorage area, anchorage 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		

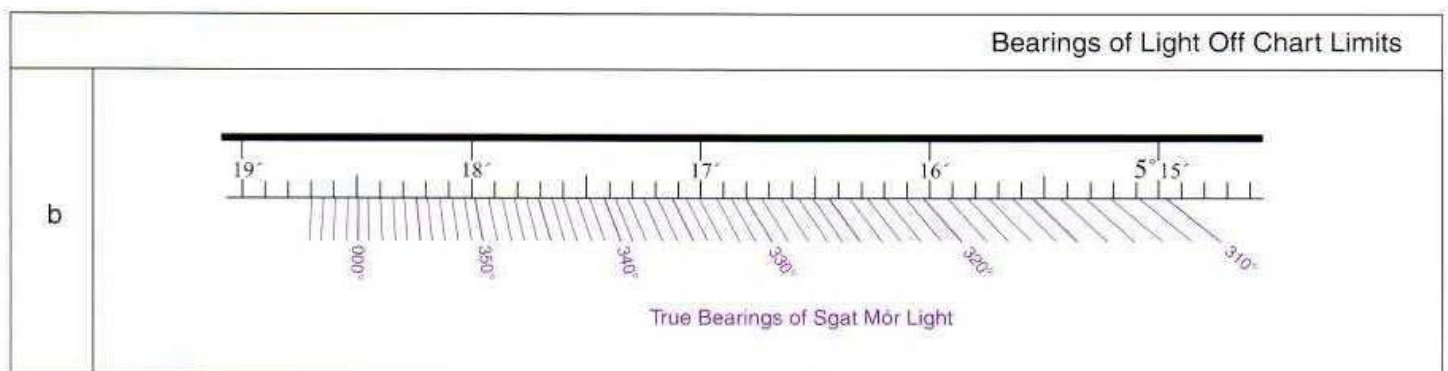
Military Practice Areas				
30		Firing practice area		441.1 441.2 441.3
31		Military restricted area into which entry is prohibited		441.6
32		Mine-laying (and counter-measure) practice area		441.4
33		Submarine transit lane and exercise area		441.5
34		Minefield		441.8

N Areas, Limits

International Boundaries and National Limits				
40		International boundary on land		440.1
41		International maritime boundary		440.3
42		Straight territorial sea baseline with base point		440.4
43		Seaward limit of Territorial Sea		440.5
44		Seaward limit of Contiguous Zone		440.6
45		National fishery limits		440.7
46		Limit of Continental Shelf		440.8
47		Limit of Exclusive Economic Zone		440.9
48		Customs limit		440.2
49		Harbour limit		430.1

Various Limits				
60.1		Limit of fast ice, ice front (with date)		449.1
60.2		Limit of sea ice (pack ice) seasonal (with date)		
61		Floating barrier, including log ponds, security barriers, ice booms, shark nets		449.2
62.1		Spoil ground		446.1
62.2		Spoil ground (disused)		446.2
63		Extraction (dredging) area		446.4
64		Cargo transshipment area		449.4
65		Incineration area		449.3

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				Lighted beacon tower †	 	456.4 457.1 457.2
4	   			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				Lighted buoyant beacon, resilient beacon †		459.1 459.2
6				Major floating light (light vessel, major light float, Large Automatic Navigational Buoy (LANBY))	   	462.8 474
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	LFl		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	FFl		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		
				

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

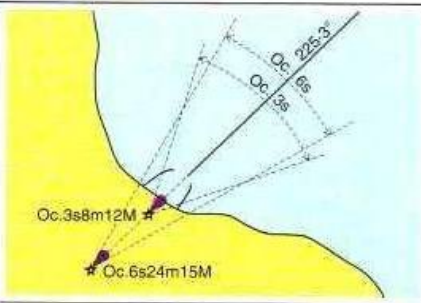
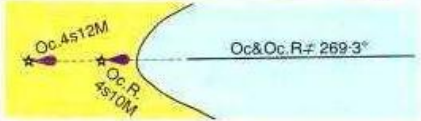
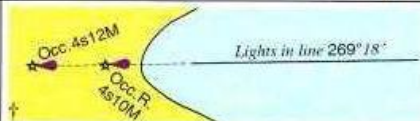
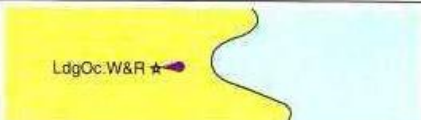
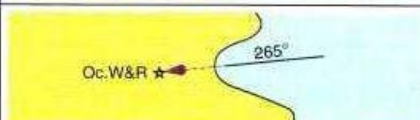
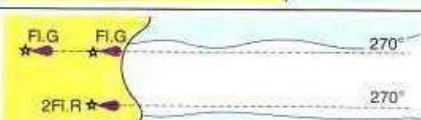
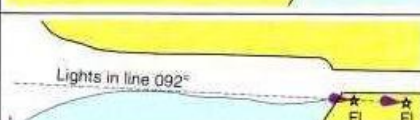
Example of a full Light Description			471.9
16	Example of a light description on a metric chart using international abbreviations: ★ Fl(3)WRG.15s13m7-5M		Example of a light description on a fathoms chart using international abbreviations: ★ Al.Fl.WR.30s110ft23/22M
	Fl(3)	Class or character of light: in this example a group-flashing light, regularly repeating a group of three flashes.	Al.Fl. Class or character of light: in this example exhibiting single flashes of differing colours alternately.
	WRG.	Colours of light: white, red and green, exhibiting the different colours in defined sectors.	WR. Colours of light shown alternately: white and red all-round (ie, not a sector light).
	15s	Period of light in seconds, i.e., the time taken to exhibit one full sequence of 3 flashes and eclipses: 15 seconds.	30s Period of light in seconds, ie, the time taken to exhibit the sequence of two flashes and two eclipses: 30 seconds.
	13m	Elevation of focal plane above height datum: 13 metres.	110ft Elevation of focal plane above height datum: 110 feet.
	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.	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

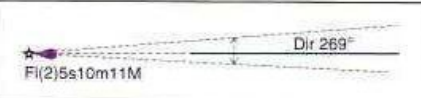
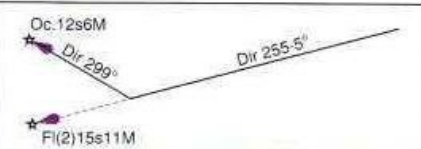
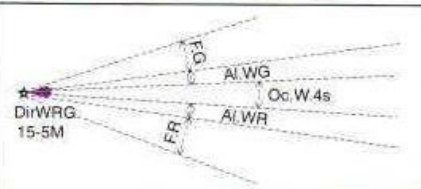
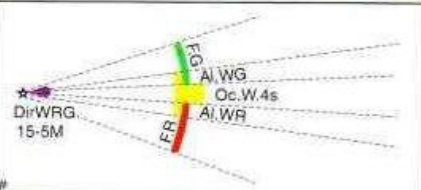
Lights marking Fairways

Note: Quoted bearings are always from seaward

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

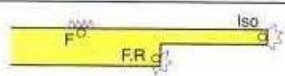
Direction Lights

30.1		Direction light with narrow sector and course to be followed, flanked by darkness or unintensified light	DirLt	
30.2		Direction light with course to be followed, uncharted sector is flanked by darkness or unintensified light	DirLt	471.3 471.9 475 475.1 475.5 475.7
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.) † (occas.)	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

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)		

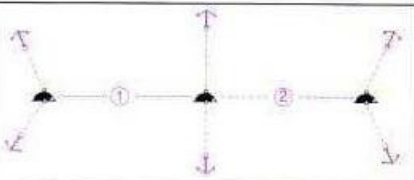
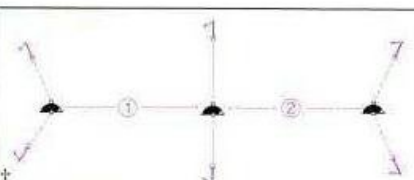
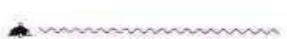
For Application of Topmarks within the IALA System → Q 130			Radar reflector → S		Topmarks and Radar Reflectors	
9		IALA System buoy topmarks (beacon topmarks shown upright)	Non-IALA System 			463 463.1
10		Beacon with topmark, colour, radar reflector and designation (example)	 			450 455.2 455.7
11		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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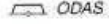
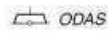
Shapes					
20	 	Conical buoy, nun buoy, ogival buoy	†    etc.	462.2	
21	 	Can buoy, cylindrical buoy	†    etc.	462.3	
22	 	Spherical buoy	†    etc.	462.4	
23	  	Pillar buoy	†  	462.5	
24		Spar buoy, spindle buoy	†     	462.6	
25	 	Barrel buoy, tun buoy		462.7	
26		Superbuoy. Superbuoys are very large 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

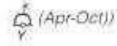
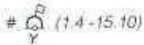
Mooring Buoys		Oil or Gas Installation Buoy → L	Visitors' (Small Craft) Mooring → U	
40	   	Mooring buoy	   	431.5
41	 Fl.Y.2-5s	Lighted mooring buoy (example)		431.5 466.1 466.2 466.3 466.4
42		Trot, mooring buoys with ground tackle and berth numbers		323.1 431.6
43		Mooring buoy with telegraphic or telephonic communications		431.5
44		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		Firing danger area (Danger Zone) buoy		441.2
51		Target		
52		Marker Ship		
53		Barge		
54		Degaussing Range buoy		448.2
55		Cable buoy		443.6
56		Spoil ground buoy		446.3
57		Buoy marking outfall		444.4
58		Data collection buoy (Ocean Data Acquisition System) of superbuoy size		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		

Seasonal Buoys

70		Buoy privately maintained (example)		
71		Seasonal buoy (the example shows a yellow spherical buoy on station between April and October)	 	460.5

Q Buoys, Beacons

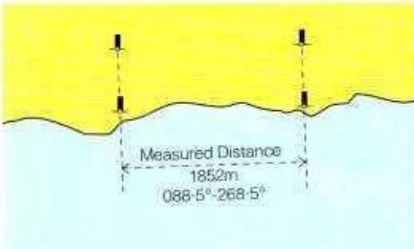
Beacons	Lighted Beacons → P	Features Common to Beacons and Buoys → Q 1-11
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General				
80	 	Beacon in general, characteristics unknown or chart scale too small to show		455.5
81		Beacon with colour, no distinctive topmark (example)		455.4 456 456.3
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)				
90		Stake, pole		456.1
91	PORT HAND 	STARBOARD HAND 	Perch, stake	456.1
92	 	Withy		456.1

Minor Marks, usually on Land				
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.



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

130.2

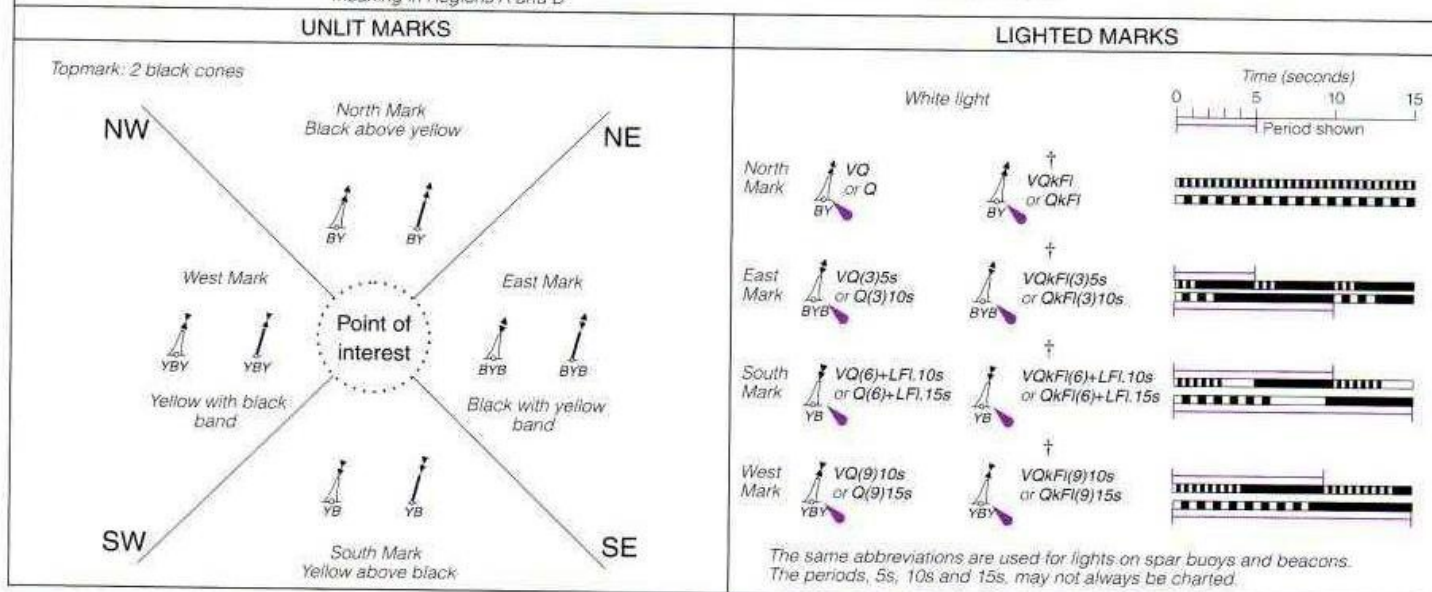


Symbol showing direction of buoyage where not obvious.



Symbol showing direction of buoyage where not obvious, on multicoloured charts (red and green circles coloured as appropriate).

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.



130.4

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

Body: black with red horizontal band(s)
Topmark: 2 black spheres



130.5

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

Body: red and white vertical stripes
Topmark (if any): red sphere



130.6

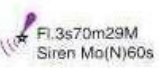
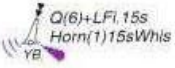
Special Marks, not primarily to assist navigation but to indicate special features.

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

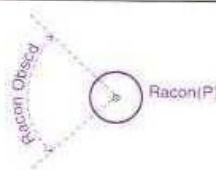
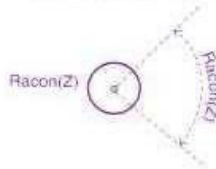
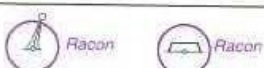


Fog Detector Light → P		Fog Light → P		General	
1				Position of fog signal. Type of fog signal not stated	† Fog Sig
					451 451.2 452.8

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
14	Bell	Bell	† Reed		452.4
15	Whis	Whistle			452.5
16	Gong	Gong			452.6
					452.7

Examples of Fog Signal Descriptions				
20		Siren at a lighthouse, giving a long blast followed by a short one (N), repeated every 60 seconds		452.3 453.3
21		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		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	 Racon Racon Racons ± 270	Leading radar transponder beacons (± and ± mean "in line")		486.5 433.3
	 Racon Racon Lts ± 270 Racons ± 270	Leading radar transponder beacons coincident with leading lights		
3.6	 Racon Racon	Radar transponder beacons on floating marks (examples)		486.2
4	 Ra Refl.	Radar reflector (not usually charted on IALA System buoys and buoyant beacons)	†	460.3 465
5	 Ra conspic	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
Note: 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.				201
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	 Pilots
1.2	 Name	Pilot boarding place, position of pilot cruising vessel, with name (e.g. District, Port)		491.1 491.2 491.6
1.3	 Note	Pilot boarding place, position of pilot cruising vessel, with note (e.g. Tanker, Disembarkation)		
1.4	 H	Pilots transferred by helicopter		491.2
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	 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 † Strm. Sig. Strm.	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	HARBOUR / MARINA FACILITIES <table><tr><th></th><th>Diesel</th><th>Petrol</th><th>Bottled Gas</th><th>Electricity</th><th>Crane/Boat Hoist</th><th>Scrubbing Berth</th><th>Repairs</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>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>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>+44 (0) 1326</td><td>250749</td><td>-</td></tr></table> Marina Facilities may be tabulated on harbour charts and large scale coastal charts. ● 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. MARINA FACILITIES					Diesel	Petrol	Bottled Gas	Electricity	Crane/Boat Hoist	Scrubbing Berth	Repairs	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	-
	Diesel	Petrol	Bottled Gas	Electricity	Crane/Boat Hoist	Scrubbing Berth	Repairs	Launching Slip	Pontoon Berthing	Swinging Moorings	Chandlery	Laundrette	Showers	VHF Radio Channels	Telephone Area Code	Telephone Number	Fax Number																																																														
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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. Obsolete forms of abbreviations may also be found on these charts and on reproductions of other nations' charts.

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

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

V Abbreviations of Principal Non-English Terms

CURRENT FORM	OBSOLESCENT FORM(S)	TERM	ENGLISH MEANING	CURRENT FORM	OBSOLESCENT FORM(S)	TERM	ENGLISH MEANING
PORTUGUESE (continued)				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	Bahia	Bay
Estu.	Est, Est ^o	Estuario	Estuary	Bo.	B ^o	Bajo	Shoal
Fte.	Ft ^a	Forte	Fort	Bco.	B ^{co}	Banco	Bank
Fte.	Ftza, Ftza	Fortaleza	Fortress	Br.	Bzo, Bzo	Rompientes	Breakers
Fund.		Fundeadouro	Anchorage	C.		Cabo	Cape
G.		Golfo	Gulf	Cal.	Cta	Caleta	Cove
	Gde, G ^{de}	Grande	Great	Can.		Canal	Channel
I.		Ilheu, 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	Moihe	Mole	Estu.	Est, Est ^o	Estuario	Estuary
Mor.	Mo, M ^o	Morro	Headland, Hill	Fond.	Fond ^o	Fondeadero	Anchorage
Mt.	M ^{ie} , Mte	Monte, Montanha	Mount, Mountain	Fte.	Ft ^e	Fuerte	Fort
NS.	Na.Sa, N ^a Sa	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	Paiheiros	Fishing village	I.	ite	Islote, Isleta	Islet
Par.	Pel, Pel ⁱ	Parcel	Shoal, Reef	L.		Lago	Lake
Pass.	Pas	Passagem, Passo	Passage, Pass	Lag.	La, L ^a	Laguna	Lagoon
	Pco, Pco, Po	Pico	Peak	Mor.	Mo, M ^o	Morro	Headland, Hill
Pda.	pda	Pedra	Rock	Mte.	M ^{ie}	Monte	Mount, Mountain
	Peq	Pequeno, Pequena	Small	Mu.	Me, M ^e , M ^{le}	Muelle	Mole
Pr.	Pa, Pa ^a	Praia	Beach		Na. Sa, N ^a Sa	Nuestra Señora	Our Lady
Pta.	pta	Ponta	Point	P.	Pto, P ^{to}	Puerto	Port
Queb.		Quebrada, Quebrado	Cut, Ravine	Pco.	Pco, Po	Pico	Peak
Rch.		Riacho, Ribeira, Ribeirão	Creek, Stream, River	Pda.	pda	Piedra	Rock
		Recife	Reef	Pen.	Pen ^{ia}	Península	Peninsula
Rf.		Rio	River		Peq	Pequeño, Pequeña	Small
Roc.	Ra, R ^a	Rocha, Rochedo	Rock	Pl.	Pa, Pa ^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.	Pla	Punta	Point
	Va, V ^a	Vila	Town, Village, Villa	Queb.		Quebrada	Cut, Ravine
				R.		Rio	River
				Rga.		Restinga	Shoal, Sandbank
				Roc.	Ra, R ^a	Roca	Rock
				S.	Sn, S ⁿ , Sto, S ^{to} , Sta, S ^{ta}	San, Santo, Santa	Saint, Holy
				Sr.	Sa, S ^a	Sierra	Mountain range
				Surg.	Surgo, Surg ^o	Surgidero	Anchorage, Roadstead
				Tr.	T ^{re}	Torre	Tower
					Va, V ^a	Villa	Villa, Small town
ROMANIAN				SWEDISH			
A.		Ansă, Ansa	Cove	B.		Bukt	Bay, Bight
B.		Baie, Baia	Bay	Bg.	Bgt, B ^g	Berg, Berget	Mountain
Br.		Braț, Brațul, Brațu	Branch, Arm (of the sea)		Bk, B ^k	Bank	Bank
				Fj.	F ^d	Fjärd, Fjord	Fjord
C.		Cap, Capul, Capu	Cape		Gla, G ^{la}	Gamla	Old
Di., D-le.		Deal, Dealul, Dealuri, Dealurile	Hill(s)	Gr.	Grn, Grd, G rd , G ^d	Grund	Shoal
Fd.mic		Fund mic	Shoal	H.	Hm, H ^m	Holme, Holmarna	Islet
I.		Insulă, Insula	Island		Hd, H ^d	Huvud	Headland
L.		Lac, Lacul, Lacu	Lake		Hn, H ⁿ	Hamn, Hamnen	Harbour
Mt., M-ți.		Munte, Muntele, Munți, Muntii	Mountain, Mounts	I.		Inre	Inner
O.		Ostrov, Ostrovul, Ostrovu	Island	L.		Lilla, Liten	Little, Small
S.		Stîncă, Stîncă	Rock	N.		Nord, Norra	North, Northern
Sf.		Sfînt, Sfîntu, Sfîntul, Sfînta	Saint, Holy	O.		Öst, Östra	East, Eastern
				S.		Syd, Södra	South, Southern
Str.		Strîmtoare, Strîmtoarea	Pass, Strait	Sk.	Sk ^f	Skär, Skäret, Skären	Rock above water
				St.		Stor	Great, Large
				V.		Väst, Västra	West, Western
				Y.	Y ^t	Yttre	Outer
RUSSIAN				THAI			
B		Bukhta	Bay, Inlet	Kh.		Khao	Hill, Mountain
b-ka.	Bka, B ^{ka} , Bki, B ^{kl} , Bk	Banka, Banki	Bank(s)	L.	Lm, L ^m	Laem	Cape, Point
Bol.		Bol'shoy, Bol'shaya, Bol'shoye	Great, Large	M.N.		Mae Nam	River
Gb.	G, Ga, G ^a	Guba	Gulf, Bay, Inlet	TURKISH			
G.		Gora	Mountain, Hill	Ad.		Ada, Adası	Island
Gav.	G	Gavan'	Harbour, Basin	Asp.		Takimadalar	Archipelago
Kam.		Kamen'	Rock	Adc.	Ad	Adacık	Islet
M.		Mys	Cape, Headland	Boğ.		Boğaz, Boğazı	Strait
	Mal	Malyi, Malaya, Maloye	Little	Br.	Bn, Bu	Burun, Burnu	Point, Cape
O.	O ^{va}	Ostrov, Ostrova	Island(s)	Ç.	Ça	Çay, Çayı	Stream, River
Oz.		Ozero	Lake				
P-ov.	Pol ^{ov} , P ^{ov} , Pol	Poluostrov	Peninsula				
Pr.	Prv, Pr ^v	Proliv	Channel, Strait				
R.		Reka	River				
Zal.		Zaliv	Gulf, Bay				

Abbreviations of Principal Non-English Terms **V**

CURRENT FORM	OBSOLESCENT FORM(S)	TERM	ENGLISH MEANING
TURKISH (continued)			
D.	Da	Dağ, Dağı	Mountain
Dz.	De	Dere, Deresi	Valley, Stream
G.		Deniz	Sea
Isk.		Göl, Gölü	Lake
Kf. Krf.		İskele, İskelesi	Jetty
Ky.	Kyl.	Körfez, Körfezi	Gulf
Lim. Lm.	Li	Kaya, Kayası	Rock
N.		Liman, Limanı	Harbour
		Nehir, Nehri, Irmak, Irmağı	River
T.	Te, T ^e	Tepe, Tepesi	Hill, Peak
Yad.		Yarımada, Yarımadası	Peninsula

CURRENT FORM	OBSOLESCENT FORM(S)	TERM	ENGLISH MEANING
Languages of the former YUGOSLAVIA			
Br.		Brdo, Brda	Mountain(s)
Gr.		Greben, Grebeni	Rock, Reef, Cliff, Ridge
Hr.		Hrid, Hridi	Rock
L.		Luka	Harbour, Port
M.		Mali, Mala, Malo, Malen	Small
O.		Otočić, Otočići	Islet(s)
O.		Otok, Otoci	Island(s)
Pl.		Pličina	Shoal
Pr.		Prolaz	Passage
S.	Sv	Sveti, Sveta, Sveto	Saint, Holy
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	OBSOLETE FORM(S)	TERM	REFERENCES	CURRENT FORM	OBSOLETE FORM(S)	TERM	REFERENCES
abt	ab ^t	About	O a	Dir	Dir ⁿ	Direction	—
Aero		Aeronautical	P 60, 61	Dir	Dir Lt	Directional light	P 30-31
Al	Al	Algae	J 1	Discol	Discol ^d	Discoloured water	K a
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	—
Annlly	Annlly	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, Entce, Entce	Electric fog horn	R 13
ASD		Admiralty Sailing Directions	—	Equin ^t		Equinoctial	O 16
ASL		Archipelagic Sea Lane	M 17	ESSA		Environmentally Sensitive Sea Area	N 22
ATBA	Astr, Astrl, Astr ^t	Astronomical	—	Est.	Est ^y , Estab ^t	Estuary	O 17
ATT		Area to be Avoided	M 14, 29	ev	ev	Establishment	—
Aug		Admiralty Tide Tables	—	exper	exper ^t , Exper ^t	Every	—
Aus		August	—	explos	explos ^e , Explos ^e	Experimental	O 92
Ave	Av ^e	Australia	—	(exting)	(exting ^d)	Explosive	R 10
		Avenue	G 111			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 1	FAD		Fish Aggregating Device	—
	Batt, Baty, Bat ^y	Battery	E 34, 3	F Racon		Fixed frequency radar	S 3, 4
Bk	B ^k	Bank	O 23	Feb		transponder beacon	—
bk	brk	Broken	J 33	FFL		February	P 10, 10
Bldg	B ^{ldg}	Building	D 5	Fj	Fd, F ^d	Fixed and flashing light	O 5
	BM, B.M.	Bench Mark	B 23	Fl	(fish ^g)	Fjord	P 50
Bn, Bns		Beacon(s)	M 1-2, P 4-5, Q 80-81	Fl	fl, fl	Fishing light	P 10, 4
			P 3, Q 110	Fla	Fl., fl	Flashing light	—
BnTr	Bn Tower	Beacon Tower	J e			Flood	L 11
Bo	Bo	Boulders	F a, G 181			Flare stack (at sea)	G 53
Boi	Boll.	Bollard	K 17	fm, fms	Fm, F ^m	Farm	B 48
Br	br	Breakers	J ak	Fog Det Lt	f ^m , f ^{ms}	Fathom, fathoms	P 62
Bu	Bl, Bl., b	Brown	J ag, P 11, 4, Q a			Fog detector light	R 1
		Blue	—			Fog signal station	—
			—			Radio fog signal	L 17
C.		Cape	G 7	FPSO		Floating Production and Storage Offtake Vessel	—
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	L 17
Cas	Cas.	Castle	E 34, 2, G 64			Fort	E 34, 2
	Cath, Cath.	Cathedral	E 10, 1, G 75	ft	Ft, Ft ^t	Foot, feet	B 47, P 13
Cb		Cobbles	J 8	G	f ^t		—
cd		Candela	B 54	G	g	Gravel	J 6
CD		Chart Datum	H 1		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
	Ch	Church, chapel	E 10, 1, E 11		Gc	Glaucinite	J p
	ch, choc	Chocolate	J al		Gd, grd	Ground	J a
Chan.		Channel	O 14		Gl, gl	Globigerina	J v
Chem	chk, Ck	Chemical	L 40		Govt Ho, Gov ^t Ho	Government House	—
	Chy	Chalk	J f	Gp		Group (of islands)	—
	cin, Cn	Chimney	E 22		GpFl, Gp Fl	Group-flashing light	P 10, 4
cm	cm	Cinders	J n		GpOcc, Gp Occ	Group-occulting light	P 10, 2
Co	cri	Centimetre(s)	B 43	GPS		Group-occulting light	—
	Col	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		Gy, gy	Survey Station (India)	J am, Q a
Cr	cov	Covers	K c	GT		Grey	—
Cup	Cup	Creek	O 7			Gross Tonnage	—
Cy	cl	Cupola	E 10, 4				—
		Clay	J 3				—
	(D)	Doubtful	—	h	H, H.	Hard	J 39
	d	Dark	J ao	H	h., H.	Headway	D 20, D 26-27
Dec		December	—	h		Helicopter transfer (Pilots)	T 1, 4
decr	decr ^d	Decreasing	B 64	HAT		Hour	B 49
dest	dest ^d , Dest ^d	Destroyed	O 93	Hd	H ^d	Highest Astronomical Tide	H 3
Det		(see Fog Det Lt)	—	Hn	H ⁿ	Headland	G 8
DG, DG Range	D. G. Range	Degaussing Range	N 25, Q 54	Ho		Haven	G 139
DGPS		Differential Global Positioning System	S 51	(hor)	(hor ^t)	House	G 61
		Diatoms	J w	Hosp	Hosp ^t , Hosp ^t	Horizontally disposed	P 15
		Diaphone	R 11	Hr	H ^r	Hospital	F 62, 2
			—	Hr Mr	H ^r , H ^r	Harbour	G 138
			—		Ht, H ^t	Harbour Master	F 60
			—			Height	—

Abbreviations of Principal English Terms

V

CURRENT FORM	OBSOLETE FORM(S)	TERM	REFERENCES	MHW	M.H.W.N.	Mean High Water	H 5
HW	H.W.	High Water	H a	MHWN	M.H.W.N.	Mean High Water Neaps	H 11
	H.W.F. & C.	High Water Full and Change	—	MHWS	M.H.W.S.	Mean High Water Springs	H 9
	H.W.O.S.	High Water Ordinary Springs	—	min	Mid, Mid.	Middle	—
				min	min., m.	Minute(s) of time	B 50
				Mk		Mark	Q 101
					MI, ml	Marl	J c
				CURRENT FORM	OBSOLETE FORM(S)	TERM	REFERENCES
I	It	Island, islet	G 1-2	LHW	M.L.H.W.	Mean Lower High Water	H 15
IALA		International Association of Lighthouse Authorities	Q 130	MLLW	M.L.L.W.	Mean Lower Low Water	H 12
IHO		International Hydrographic Organization	—	MLW		Mean Low Water	H 4
(illum)	Illum., (lit)	Illuminated	P 63	MLWN	M.L.W.N.	Mean Low Water Neaps	H 10
IMO		International Maritime Organization	—	MLWS	M.L.W.S.	Mean Low Water Springs	H 8
				mm	mm.	Millimetre(s)	B 44
	in., ins.	Inch, inches	—	Mo		Morse code	P 10.9, R 20
incrg	incr ⁹	Increasing	B 65	Mon	Mont, Mont ¹	Monument	E 24
INT	(intens)	International	A 3, T 21		Mony, Mon ^y	Monastery	G 76
Intens		Intensified	P 46		Ms, mus	Mussels	J r
IQ	IntQkFl, Int.Qk.Fl.	Interrupted quick-flashing light	P 10.6	MSL	M.S.L.	Mean Sea Level	H 6
	(irreg.)	Irregular	—	Mt.	M ^t	Mountain, mount	G 23
	ISLW, I.S.L.W.	Indian Spring Low Water	—	Mth.	M th	Mouth	O 19
Iso	It	Isophase light	P 10.3	MTL	M.T.L.	Mean Tide Level	H c
ITZ		Islet	G 2	N	N.	North	B 9
IUQ		Inshore Traffic Zone	—	NB	Nauto	Nautophone	R 13
		Interrupted ultra quick-flashing light	P 10.8	NE	N.B.	Notice Board	Q 126
IVQ	IntVQkFl, Int.V.Qk.Fl.	Interrupted very quick-flashing light	P 10.7	NE	N.E.	North-east	B 13
				NM	N.M.	Notice(s) to Mariners	—
Jan		January	—	n mile	N ^o	International Nautical Mile	B 45
Jul		July	—	No		Number	N 12.2
				Nov		November	—
km	km.	Kilometre(s)	B 40, F 40	Np	Np.	Neap Tides	H 17
kn	kn.	Knot(s)	B 52, H 40-41	nrt		Nett register tonnage	—
				NT		Net Tonnage	—
				NW	N.W.	North-west	B 15
				NZ		New Zealand	—
					Obs Spot, Obsn Spot, Obs ⁿ Spot	Observation Spot	B 21
L	I	Lake, Loch, Lough	O 6	Obscd	Obsc ^d	Obscured	P 43
Lag	Lagn, Lag ⁿ	Large	J ab	Obstn	Obst ⁿ	Obstruction, Diffuser	K 40-43, L 43
LANBY		Lagoon	G 13, O 8		Obsy, Obs ^y	Observatory	G 73
		Large Automatic Navigational Buoy	P 6	Oc	Occ, Occ.	Occulting light	P 10.2
LASH		Lighter Aboard Ship	G 184	(occas)	(occas ¹)	Occasional	P 50
LAT		Lowest Astronomical Tide	H 2	Oct		October	—
Lat	Lat.	Latitude	B 1	OD	O.D.	Ordnance Datum	H d
	LB, L.B.	Lifeboat station	T 12	ODAS		Ocean Data-Acquisition System	Q 58
Ldg	L ^{dg}	Leading	P 20.3		Off, Off.	Office	G 72
Le	L ^e	Ledge	Q 28	Or	Or.	Orange	P 11.7, Q 3
LFI		Long-flashing light	P 10.5		ord.	Ordinary	—
	Lit, Lit.	Little	—		Oy, oys	Oysters	J q
	(lit)	Floodlit	P 63		Oz, oz.	Ooze	J b
LL	L.L.	List of Lights	—	P	peb	Pebbles	J 7
Lndg.	L ^{dg}	Landing place	F 17	P.		Port	G 137
LNG		Liquefied Natural Gas	G 185	(P)		Preliminary (NM)	—
LOA		Length overall	—	PA	(PA), (P.A.)	Position approximate	B 7
LoLo		Load-on, Load-off	—	Pag	Pag.	Pagoda	E 14
Long	Long.	Longitude	B 2	Pass.		Passage	O 13
LPG		Liquefied Petroleum Gas	G 186	PD	(PD), (P.D.)	Position doubtful	B 8
	Lr, L ^r	Lower	P 23	Pen.	Penla, Pen ^{la}	Peninsula	G 4
	L.S.S.	Lifesaving station	—	Pk	p ^k	Peak	G 25
Lt	L ^t , It	Light	J an, P 1		Pm, pum	Pumice	J k
Lts		Lights	P 20.1, 61.2	PO	P.O.	Post Office	F 63
LtHo	L ^t Ho	Lighthouse	P 1		Po, pol	Polyzoa	J z
LtV	L ^t V	Light-vessel	P 6	pos	posn, pos ⁿ	Position	—
	Lv, Iv	Lava	J j	(priv)	priv., (Priv.)	Private	P 50, P 65, Q 70
LW	L.W.	Low Water	H b	Prod Well		Production Well	L 20
	L.W.F. & C.	Low Water Full and Change	—	prohib	Prohib ^d	Prohibited	O c
	L.W.O.S.	Low Water Ordinary Springs	—	proj	projd, Proj ^d	Projected	O 80
				prom	promt, Prom ^t	Prominent	O d
				Prom.	Promy, Prom ^y	Promontory	G 20
				PSSA	(prov), (prov ¹)	Provisional	—
M	m	Mud	J 2			Particularly Sensitive Sea Area	—
M	M.	Sea Mile(s)	B 45, P 14	Pt.	pt	Point	G 9
m		Medium	J 31		Pt, pt	Pteropods	J y
m	m.	Metre(s)	B 41, P 13	Pyl		Pylon	D 26
	mad, Md	Madrepore	J h				
Mag	Mag.	Magnetic	B 61	Q	QkFl, Qk.Fl.	Quick-flashing light	P 10.6
	Magz, Mag ^z	Magazine	—		Q ^r	Quarter	—
	man, Mn	Manganese	J o		Qz, qrtz	Quartz	J g
Mar		March	—	R	rd	Red	J aj, P 11.2, Q 3
MHHW	M.H.H.W.	Mean Higher High Water	H 13	R		River	—
MHLW	M.H.L.W.	Mean Higher Low Water	H 14				

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.	Rds	Roads, Roadstead	Q 20
Ref		Refuge	Q 124, T 14
Refl	Refl.	Retroreflecting material	Q 6
	Rem ^{ble}	Remarkable	—
Rep	Rep ^d , Rep ^d	Reported	I 3
Rf	Rf	Reef	Q 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, Ry ⁿ	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, St ^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	Q 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	Q 25
Si		Silt	J 4
Sig	Sig.	Signal	R 1, T 25.2
	sk, spk	Speckled	J ad
	sm	Smail	J aa
SMt	SM ^t	Seamount	Q 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
	Strn.Sig.Stn.	Storm Signal Station	T 28
Str.		Strait	Q 11
subm	submd, Submd ^d	Submerged	Q 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
CURRENT FORM	OBSOLETE FORM(S)	TERM	REFERENCES
TSS		Traffic Separation Scheme	—
TV Tr	T.V. T ^r	Television Tower	E 28-29
	(U)	Unwatched, unmanned (light)	P 53
ULCC		Ultra Large Crude Carrier	—
uncov	uncov.	Uncovers	K d
unexam	unexam ^d , unexam ^d	Unexamined	I a
Unintens	Up ^r	Unintensified	P a
		Upper	P 22
UQ		Ultra quick-flashing light	P 10.8
UTC		Co-ordinated Universal Time	—
UTM		Universal Transverse Mercator	—
v	vol	Volcanic	J 37
	Va, Va ^a	Villa	—
Var	Var ⁿ	Variation	B 60
	var	Varying	—
Vel	Vel.	Velocity	—
(vert)	(vert ^t)	Vertically disposed	P 15
Vi		Violet	P 11.5
	vis	Visible	—
VLCC		Very Large Crude Carrier	G 187
Vol		Volcano	G 26
VQ	VQkFI, V.Qk.FI	Very quick-flashing light	P 10.7
VTS		Vessel Traffic Service	—
W	W.	West	B 12
W	w	White	J ae, P 11.1, Q a
Water Tr	Water T ^r	Water tower	E 21
Wd	wd	Weed	J 13.1
WGS		World Geodetic System	S 50
Whf	Wh ^f	Wharf	F 13, G d
Whis	Whis.	Whistle	R 15
Wk	W ^k	Wreck	K 20-30
	W/T	Radio (Wireless/Telegraphy)	—
Y	y	Yellow, amber, orange	J ai, P 11, IQ 3
YC	Y.C.	Yacht Club	U 4
	y ^d , y ^{ds}	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
			LFI	Long-flashing	P 10.5
			Lndg	Landing for boats	F 17
			LNG	Liquefied Natural Gas	G 185
			Long	Longitude	B 2
			LPG	Liquefied Petroleum Gas	G 186
			Lt	Light	P 1
F			M		
f	Fine	J 30	m	Medium	J 31
F	Fixed	P 10.1	m	Metre(s)	B 41
FFI	Fixed and Flashing	P 10.10	m	Minute(s) of time	B 50
Fl	Flashing	P 10.4	M	Mud	J 2
Fla	Flare stack	L 11	M	International Nautical mile(s)	
Fog Det Lt	Fog detector light	P 62		(1852 m) or sea mile(s)	B 45
FS	Flagstaff, flagpole	E 27	min	Minute(s) of time	B 50
ft	Foot/feet	B 47	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
Occ	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			

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Chart Number, Title, Marginal Notes

INT 4321 6067

1: 75 000

Positions, Distances, Directions, Compass

± 15 4°30'W 2004 (9'E)

TOPOGRAPHY

C
D
E
F
G

Natural Features



Cultural Features



Landmarks



Ports



Topographic Terms

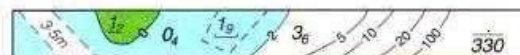
HYDROGRAPHY

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I
J
K
L
M
N
O

Tides, Currents



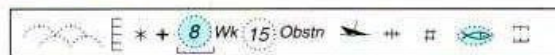
Depths



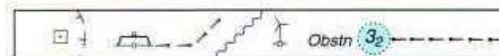
Nature of the Seabed



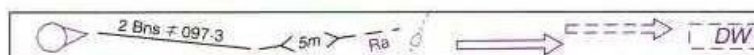
Rocks, Wrecks, Obstructions



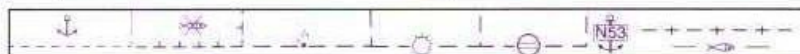
Offshore Installations



Tracks, Routes



Areas, Limits

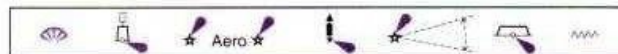


Hydrographic Terms

NAVIGATION AIDS AND SERVICES

P
Q
R
S
T
U

Lights



Buoys, Beacons



Fog Signals



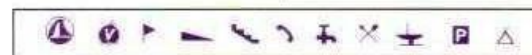
Radar, Radio, Satellite Navigation Systems



Services



Small Craft (Leisure) Facilities



ALPHABETICAL INDEXES

V
W
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Index of Abbreviations: Principal Non-English Terms, Principal English Terms

International Abbreviations

Index to Symbols and Abbreviations