

Chart 5011

(INT 1 Format)

Edition 3 - May 2005

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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 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.

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					Leading line (the firm line is the track to be followed)					433.1 433.2 433.3				
2 Bns # 270-5					Bns in Line 27030'									
2 Bns # 270-5					Ldg Bns 270-5									
					270-5									

- 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 national symbol for which there is no International equivalent.
- ⑥ Column 2: International (INT) symbols used on Admiralty charts.
- ⑦ Column 3: Term and explanation in English.
- ⑧ Column 4: Other symbol or abbreviation used on Admiralty charts, if different from Column 2. The mark † indicates that this representation or usage is obsolescent.
- ⑨ Column 5: Cross references to the "Chart Specifications of the IHO", M-4, Part B.

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 shown in 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.

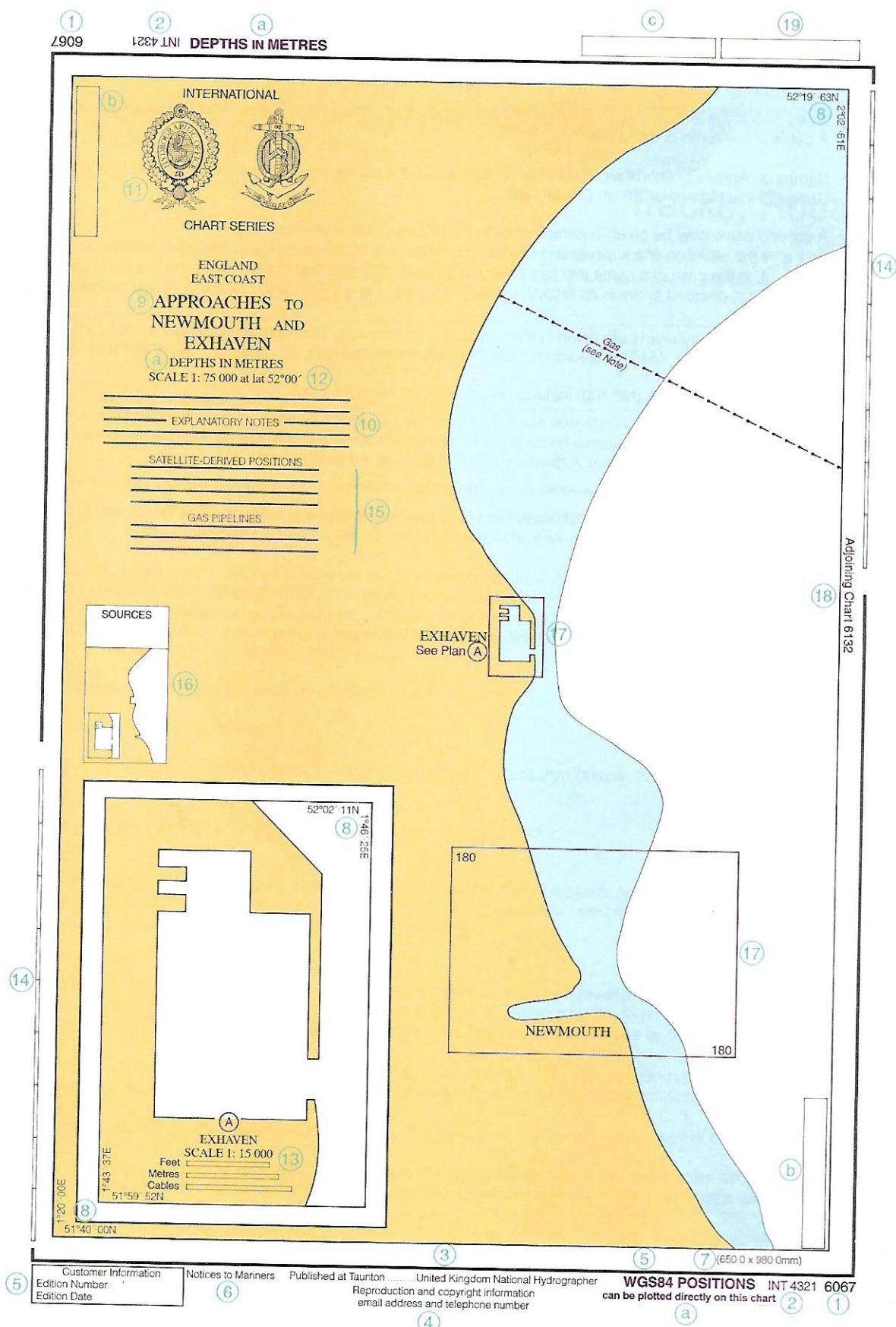
On adopted or co-produced charts these ranges may vary.

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.

- Heights** 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.
- Bearings** Bearings are given from seaward and refer to the true compass.
- Sea Miles and Cables** 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.
- Names** 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 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;
- Chart Catalogues** 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.
- The Mariner's Handbook and other Publications** 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.
- Copyright** 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 Publication note (imprint) showing the date of publication as a New Chart.		252.1 252.4
④ Reproduction and Copyright acknowledgement note. All Admiralty charts are subject to Crown Copyright restrictions.		253
⑤ Customer Information, Edition Number, Edition Date, (charts revised prior to May 2000 have New Edition date at bottom right of chart)		252.2
⑥ 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
⑦ 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
⑧ Corner co-ordinates.		232
⑨ Chart title. This should be quoted, in addition to the chart number, when ordering a chart.		241.3
⑩ Explanatory notes on chart content; to be read before using the chart.		242
⑪ 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
⑫ Scale of chart; on Mercator projection, at a stated latitude.		211 241.4
⑬ Linear scales on large-scale plan.		221
⑭ Linear border scales (metres). On smaller scale charts, the latitude border should be used to measure Sea miles and Cables.		221.1
⑮ Cautionary notes (if any) on charted detail; to be read before using the chart.		242
⑯ 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.		170-178 241.9
⑰ Reference to a larger scale chart or plan (with reference letter if plan on same chart).		254
⑱ Reference to an adjoining chart of similar scale.		254
⑲ Note 'IMPORTANT - THE USE OF ADMIRALTY CHARTS'.		243
Ⓐ Reference to the units used for depths measurement or use of WGS84. The legend, 'DEPTHS IN FATHOMS/FEET', is shown on certain more recent fathoms charts where confusion might otherwise arise. The legend 'WGS84 POSITIONS' can be plotted directly on this chart' is shown when applicable.		201 241.5 255.2
Ⓑ Conversion scales. To allow approximate conversions between metric and fathoms and feet units. On older charts, conversion tables are given instead.		280
Ⓒ Copyright Notice		

B Positions, Distances, Directions, Compass

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

Control Points					
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
a		Viewpoint		◦ See View	390.2

Symbolised Positions (Examples)					
30	   Wk	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

7
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		130
47	ft	Foot/feet		
48		Fathom(s)	fm., 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) or Ton(s)		
54	# cd	Candela		

				Magnetic Compass
60		Variation	Var	
61		Magnetic	Mag	
62		Bearing		132
63		true		
64		decreasing	decrq	
65		increasing	incrq	
66		Annual change		
67		Deviation		
68.1		Note of magnetic variation, in position		
68.2		Note of magnetic variation, out of position	Magnetic Variation: 4°30'W 2004 (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.

260-
262.2
272.3

These styles
are obsolescent

True Compass Rose
Magnetic North indicated
by arrow

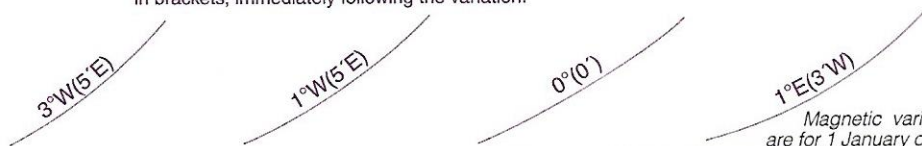
The arrow indicating
Magnetic North is omitted
on charts comprising
separate plans and on
charts showing isogonals.

71

Isogonals
(lines of equal
magnetic variation)

MAGNETIC VARIATION LINES ARE FOR 2000

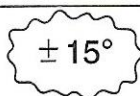
The magnetic variation is shown in degrees, followed by the letter E or W, as appropriate, at certain positions on the lines. The annual change is expressed in minutes with the letter E or W and is given in brackets, immediately following the variation.



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.

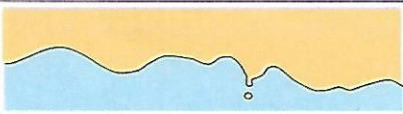

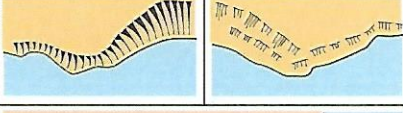
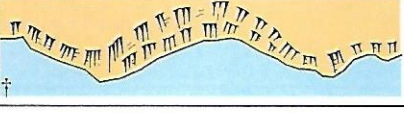
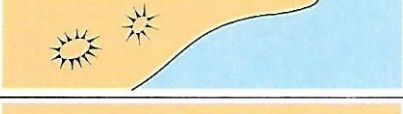
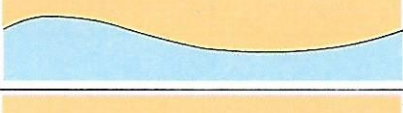
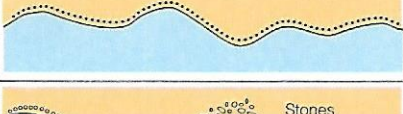
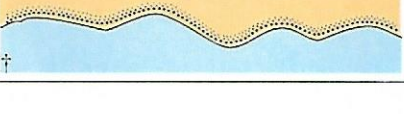
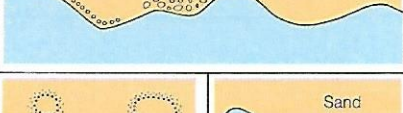


274

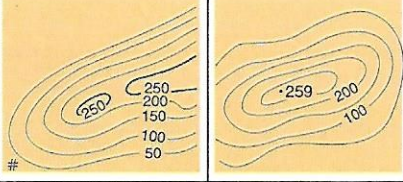
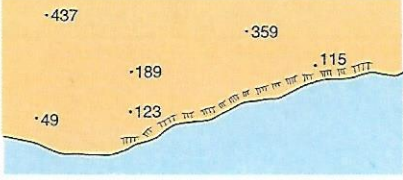
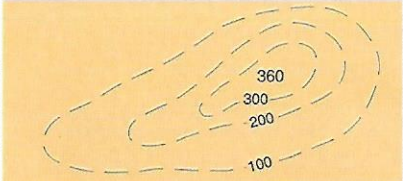
82.2

Local Magnetic Anomaly
(see Note)

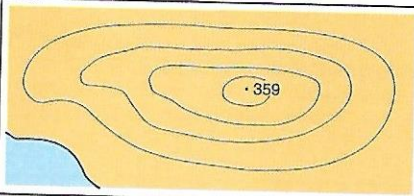

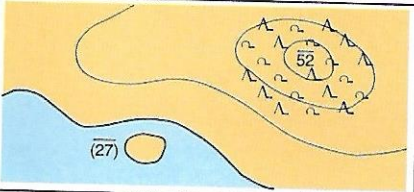
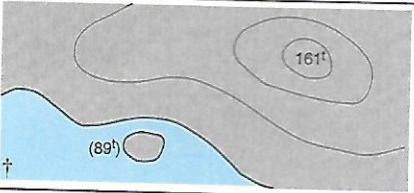
Where the area affected cannot be
easily defined, a legend only is
shown at the position.

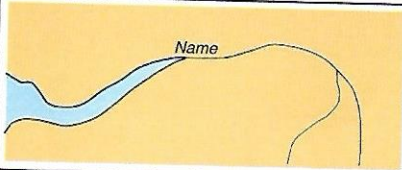
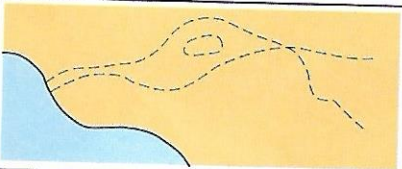
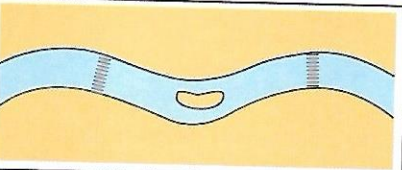
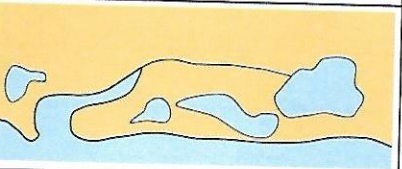
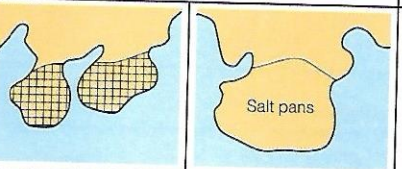
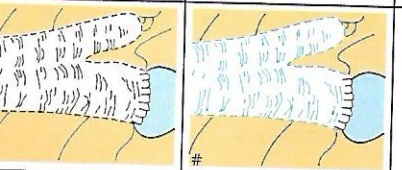
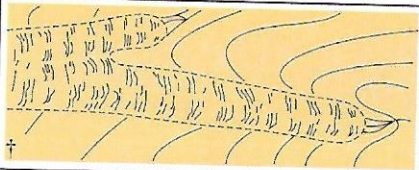
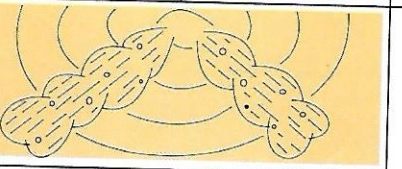
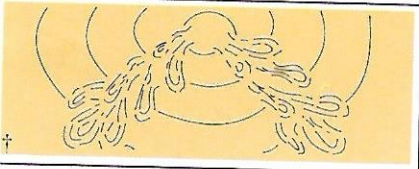
Natural Features **C**

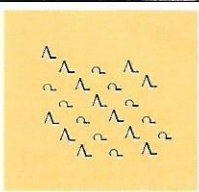









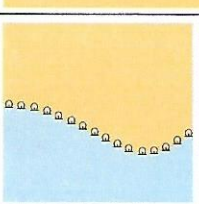
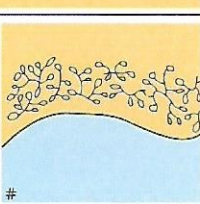
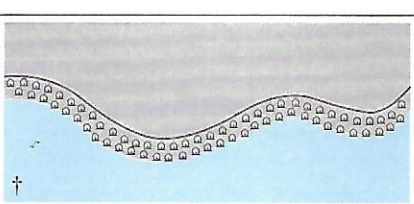
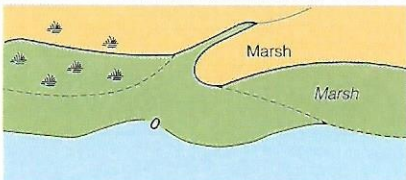
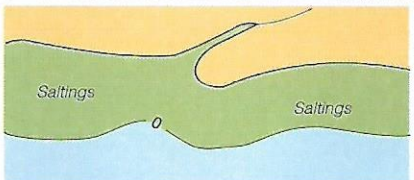
Foreshore → I, J			Coastline	
1		Coastline, surveyed		310.1 310.2
2		Coastline, unsurveyed		311
3		Steep coast, Cliffs		312.1
4		Coastal hillocks		312.1
5		Flat coast		312.2
6		Sandy shore		312.2
7		Stony shore, Shingly shore		312.2
8		Sand dunes		312.3

Plane of Reference for Heights → H			Relief	
10		Contour lines with spot height		351.3 351.4 351.5 351.6 352.2
11		Spot heights		352.1 352.2
12		Approximate contour lines with 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			Example of 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			Filix		
31.8			Eucalypt		
32			Mangrove		312.4
33			Marsh, Swamp, Salt marsh		312.2

D Cultural Features










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









Roads, Railways, Airfields				
10			Motorway	365.1
11			Road (hard surfaced)	365.2
12			Track, Path (loose or unsurfaced)	365.3
13			Railway, with station	328.4 362.1 362.2
14			Cutting	363.2
15			Embankment	364.1
16			Tunnel	363.1
17			Airport, Airfield Large-scale charts Small-scale charts	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)		380.1 380.2	
21		Horizontal clearance		380.3	
22		Fixed bridge with vertical clearance		381.1	
23.1		Opening bridge (in general) with vertical clearance		381.3	
23.2		Swing bridge with vertical clearance			
23.3		Lifting bridge with vertical clearance (closed and open)			
23.4		Bascule bridge with vertical clearance			
23.5		Pontoon bridge			
23.6		Draw bridge with vertical clearance			
24		Transporter bridge with vertical clearance between Height Datum and lowest part of structure		381.2	
25		Overhead transporter, Aerial cableway with vertical clearance		382.3	
26		Power transmission line with pylons and safe vertical clearance (see Note below D29)		382.1	
27		Overhead cable, Telephone line, Telegraph line with vertical clearance		382 382.2	
28		Overhead pipe with vertical clearance		383	
29		Pipeline on land		377	



























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

E Landmarks



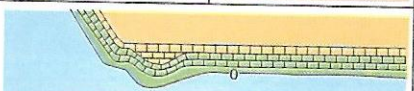

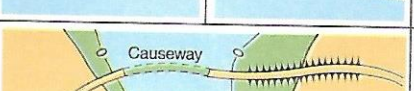







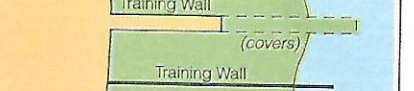
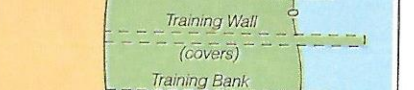

General	Plane of Reference for Heights → H	Lighthouses → P	Beacons → Q
1	 Factory  Hotel	Examples of landmarks	340.1 340.2 340.5
2	 FACTORY  HOTEL  WATER TOWER	Examples of conspicuous landmarks. A legend in capital letters indicates that a feature is conspicuous	340.1 340.2 340.3 340.5
3.1		Pictorial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


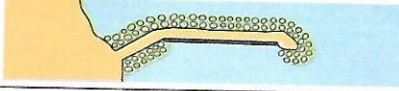

Landmarks					
10.1	 ✠	Ch	Church, Cathedral	✠ Cath	373.1 373.2
10.2	 Tr ✠ Tr		Church tower		373.2
10.3	 Sp ✠ Sp		Church spire		373.2
10.4	 Cup ✠ Cup		Church cupola		373.2
11			Chapel	✠ Ch	
12			Cross, Calvary	# †	
13			Temple	† 卐	373.3
14			Pagoda	Pag	373.3
15			Shinto shrine, Josshouse		373.3
16		# 卐	Buddhist temple	† 卐	373.3
17			Mosque, Minaret	† ٠	373.4
18	# ○ Marabout		Marabout	○ Tomb † ٠	373.5
19			Cemetery (all religions)	†  Cemy	373.6



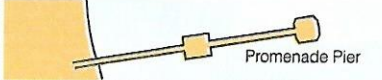
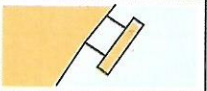

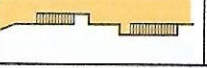

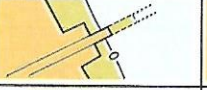
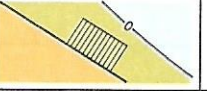
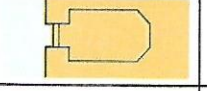
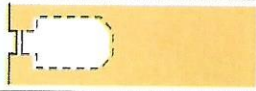
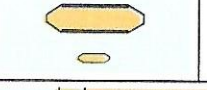
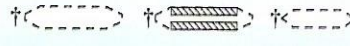
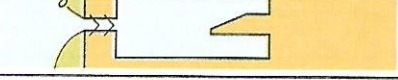
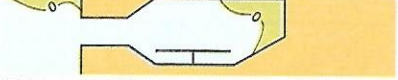

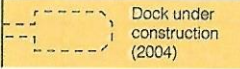

Landmarks **E**

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




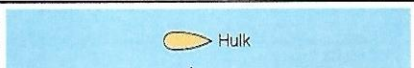
F Ports

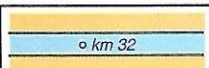
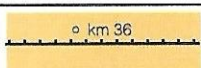
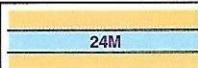
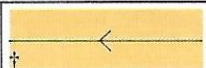
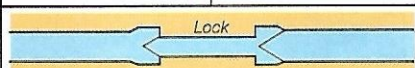
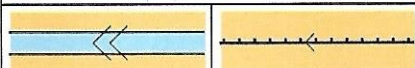
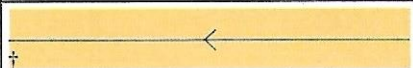
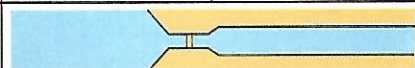
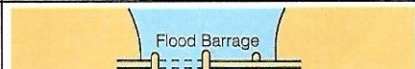

Artificial Features					
1		Dyke, Levee, Berm			313.1
2.1		Seawall (on large-scale charts)			313.2
2.2		Seawall (on smaller scale charts)			
3		Causeway			313.3
4.1		Breakwater (in general)			322.1
					
					
4.2		Breakwater (loose boulders, tetrapods, etc)			322.2
4.3		Breakwater (slope of concrete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



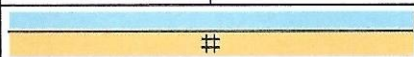

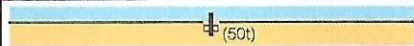
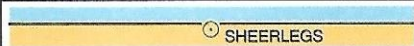
Harbour Installations				Depths → I	Anchorage, Limits → N	Beacons and other fixed marks → Q	Marina → U
10		Fishing harbour					320.1
12		Mole (with berthing facility)					321.3
13		Quay, Wharf				Whf	321.1


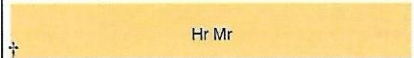
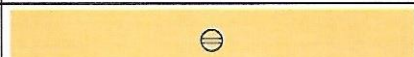

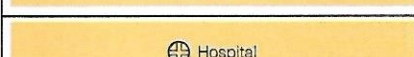
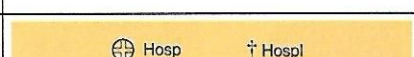

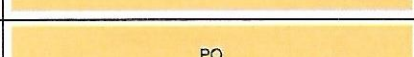
14		Pier	Pier, Jetty		321.2 321.4
15		Promenade Pier	Promenade pier		321.2
16		Pontoon	Pontoon		326.9
17		Lndg	Landing for boats	Ldg	324.2
18		Steps	Steps, Landing stairs		
19	④ ⑤ 234		Designation of berth	④	323.1
20	○ □ □ Dn □ Dns		Dolphin		327.1
21			Deviation dolphin		327.2
22	• •		Minor post or pile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

F Ports

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

Rivers, Canals, Barrages		Clearances → D	Signal Stations → T	Cultural Features → D		
40			Canal, with distance mark. Distance shown in black indicates a physical structure e.g. a notice board			361.3 361.6 307
41.1		Lock (on large-scale charts)				326.6 361.6
41.2		Lock (on smaller scale charts)				
42		Caisson				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 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		325.1
61		Custom office		325.2
62.1		Health office, Quarantine building		325.3
62.2		Hospital		
63		Post office		372.1

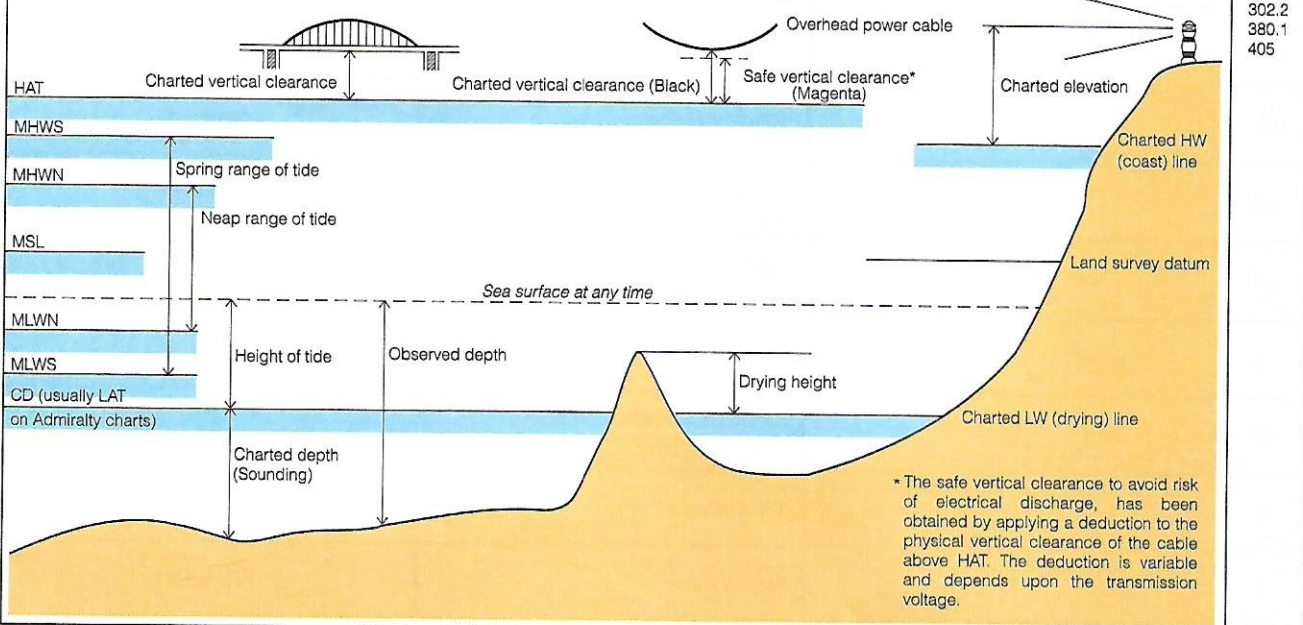
Vertical clearance → D

Tide Gauge → T

Tidal Levels and Charted Data

20

NOTE: Planes of reference are not exactly as shown below for all charts. They are usually defined in notes under chart titles.



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	

Offshore position for which tidal levels are tabulated

a

406.2
406.3
406.4
406.5

31





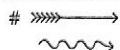









Tidal stream table

Tidal streams referred to....

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

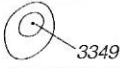
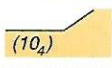
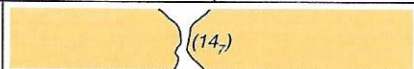
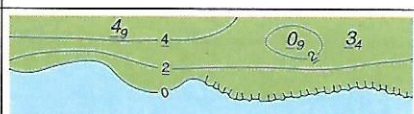
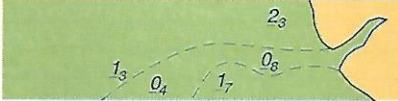
407.2
407.3



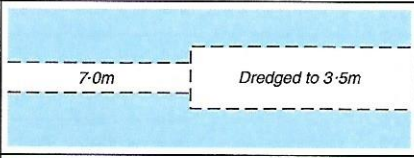
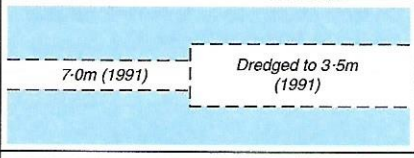
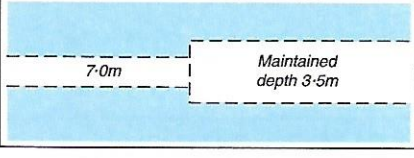
H Tides, Currents

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)		407.4 408.2
42		Current in restricted waters		408.2
43		Ocean current. Details of current strength and seasonal variations may be shown		408.3
44		Overfalls, tide rips, races		423.1
45		Eddies		423.3
46		Position of tabulated tidal stream data with designation		407.2
e		Wave recorder		
f		Current meter		

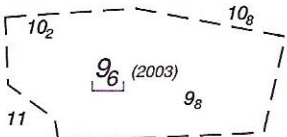
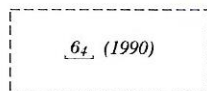
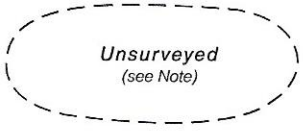
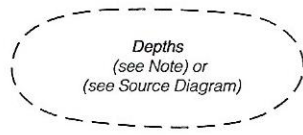
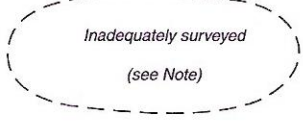
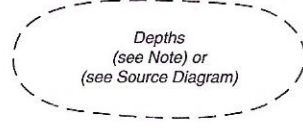
Depths

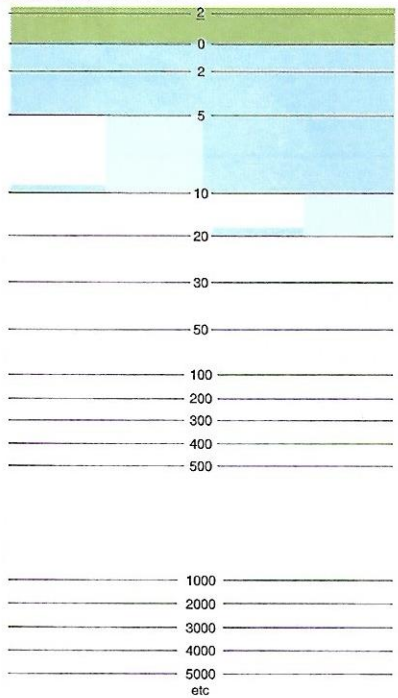
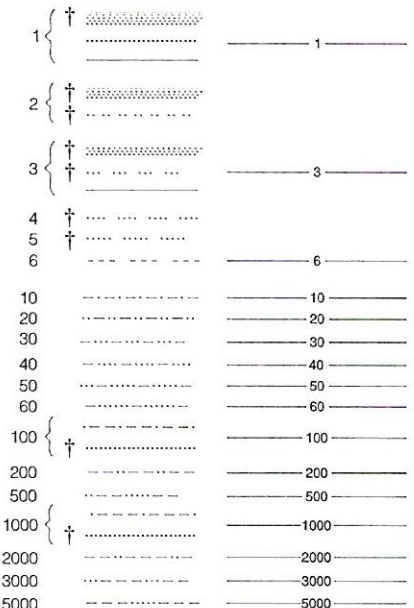
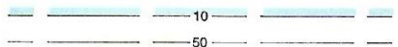
General				
1	ED	Existence doubtful	† (ED)	417 424.3
2	40 SD	Sounding of doubtful depth		417 424.4
3.1	Rep	Reported, but not confirmed	† Repd	417 424.5
3.2	Rep (1973)	Reported, with year of report, but not confirmed	† Repd (1973)	
4	184 212	Reported, but not confirmed, sounding or danger (on small-scale 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	+ (12) 	Sounding out of position	* (8 ₃)  + 1 ₈ 8 ₇ 7 ₁	412 412.1 412.2
12		Least depth in narrow channel		412 412.1 412.2
13	330	No bottom found at depth shown		412.3
14	12 9 ₁	Soundings taken from old or smaller scale sources shown in upright, hairline figures		412.4 417.3
15		Drying heights and contours above chart datum		413 413.1 413.2
b		Half-tide channel (in intertidal area)		




Plane of Reference for Depths → H		Depths in Fairways and Areas		
20		Limit of dredged channel or area (major and minor)	# 	414.3
21		Dredged channel or area with depth of dredging in metres and decimetres	Depths may be shown as 3.5 or 3 ₅ on some adopted charts	414
22		Dredged channel or area with depth of dredging and year of the latest control survey		414.1
23		Dredged channel or area with depth regularly maintained		414.2

I Depths

24		Depth, at chart datum, to which an area has been swept by wire drag. 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
				

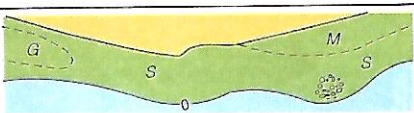
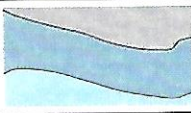
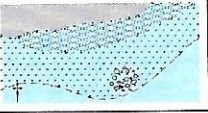



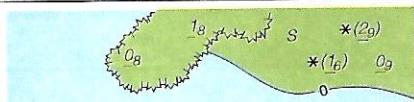


Depth Contours				
30		<p>Drying contour Low Water (LW) Line, Chart Datum (CD)</p> <p>Blue tint, in one or more shades, and tint ribbons, are shown to different limits according to the scale and purpose of the chart and the nature of the bathymetry.</p> <p>On some charts, the standard set of contours 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.</p> <p>On some charts, contours and labels are printed in blue.</p>	<p>On charts showing depths in fathoms/feet, the following contours are used:</p>  <p>On some recently-corrected charts, contours may be shown by continuous lines.</p>	404.2 410 411
31		Approximate depth contours		411.2 417.5

Nature of the Seabed J

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

J Nature of the Seabed

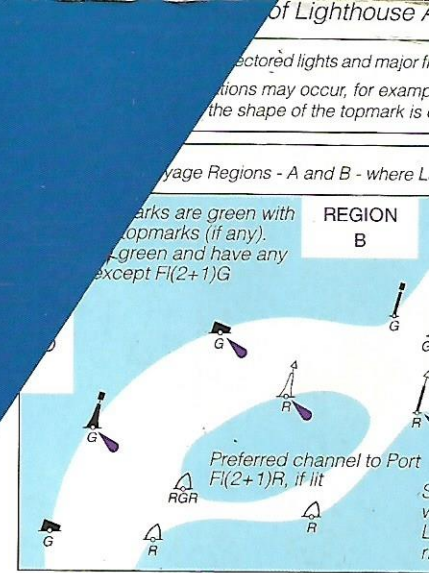
o		Manganese	†	Mn	man	
p		Glaucinite	†	Gc		
q		Oysters	†	Oy	oys	
r		Mussels	†	Ms	mus	
s		Sponge	†	Sp		
t		Algae	†	Al		
u		Foraminifera	†	Fr	for	
v		Globigerina	†	Gl		
w		Diatoms	†	Di		
x		Radiolaria	†	Rd	rad	
y		Pteropods	†	Pt		
z		Polyzoa	†	Po	pol	

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

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

Nature of the Seabed **J**

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



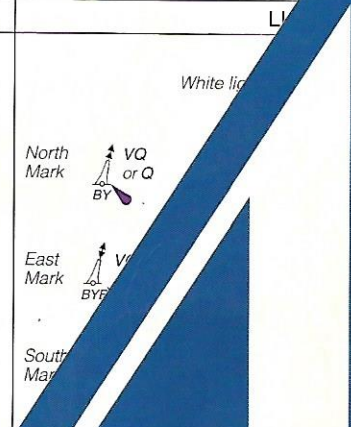
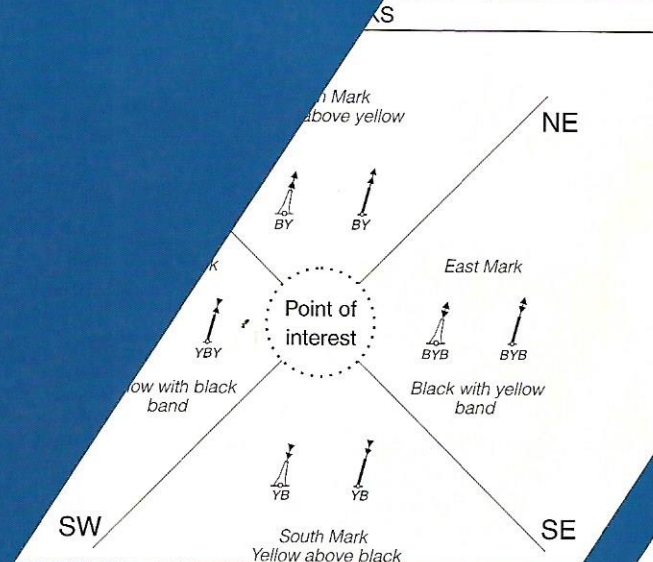
channel marks have three horizontal bands of colour. colour for buoys is not satisfactory, black may be used.

on of buoyage



Symbol showing direction not obvious, on multicoloured green circles coloured

able water to the named side of the marks. Cardinal marks have the same regions A and B



SYMBOLS AND ABBREVIATIONS USED ON ADMIRALTY CHARTS


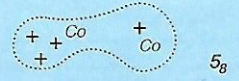

Part-2
Pages 26 to 54











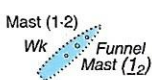







K Rocks, Wrecks, Obstructions

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. The symbol may be used with other symbols, e.g. wrecks, obstructions, wells		415 422.3 422.9
a		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		422.7
b		Dries	† Dr † dr	
c		Covers	† cov	
d		Uncovers	† uncov	


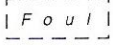




Rocks		Plane of Reference for Heights → H	Plane of Reference for Depths → H	
10		Rock which does not cover, height above height datum	(1,7) (3,1) (4,1)	421.1
11		Rock which covers and uncovers, height above Chart Datum, where known	† Dries 1-6m † Dr 1-6m	421.2
12		Rock awash at the level of Chart Datum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


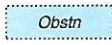











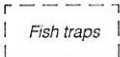
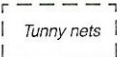
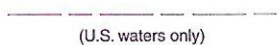







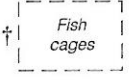


Rocks, Wrecks, Obstructions **K**

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

	Hulk → F	Plane of Reference for Depths → H	Historic Wreck → N	Wrecks
20		On large-scale charts, wreck which does not cover, height above height datum		422.1
21		On large-scale charts, wreck which covers and uncovers, height above Chart Datum	†  † 	
22		On large-scale charts, submerged wreck, depth known	† 	422.1
23		On large-scale charts, submerged wreck, depth unknown	† 	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 which has been swept by wire to the depth shown		422.3
28		Wreck, depth unknown, which is considered dangerous to surface navigation		422.5
29		Wreck, in over 200m or depth unknown, which is not considered dangerous to surface navigation	For information about depth criteria, see NP100, The Mariner's Handbook	422.6
f		On small-scale charts, submerged wreck, depth unknown		






K Rocks, Wrecks, Obstructions

Plane of Reference for Depths → H		Historic Wreck → N	Wrecks	
30		Wreck over which the exact depth is unknown, but which is considered to have a safe clearance at the depth shown		422.7
31	# 	Remains of a wreck, or other foul area, no longer dangerous to surface navigation, but to be avoided by vessels anchoring, trawling, etc	  	422.8
g		Navigation light on stranded wreck		


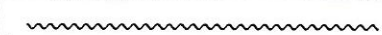
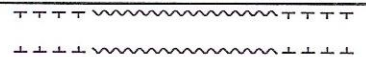
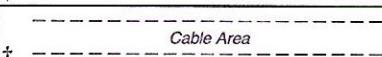

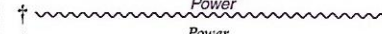
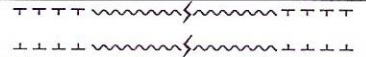
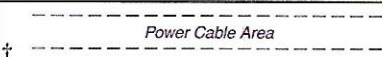
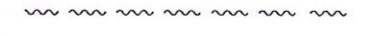
Obstructions		Plane of Reference for Depths → H	Kelp, Seaweed → J	Underwater Installations → L	
40	 	Obstruction or danger to navigation the exact nature of which is not specified or has not been determined, depth unknown			422.9
41	 	Obstruction, depth known			422.9
42	✓  	Obstruction, which has been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

Combined symbols → K (General)		Areas, Limits → N	General	
1	EKOFISK OILFIELD	Name of oilfield or gasfield		445.3
2		Platform with designation/name		445.3
3		Limit of safety zone around offshore installation		439.2 445.2
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
a		Limit of oilfield or gasfield		
Mooring Buoys → Q		Platforms and Moorings		
10		Production platform, Platform, Oil derrick		445.2
11		Flare stack (at sea)		445.6
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		
b		Anchoring system for floating production platform		
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 seabed		
22		Site of cleared platform		422.8

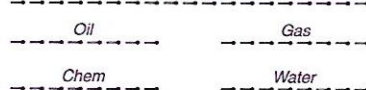
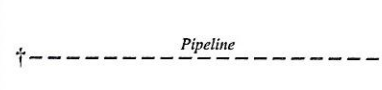
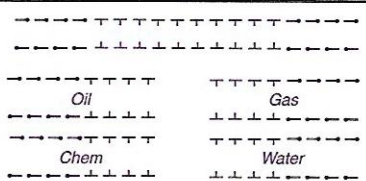
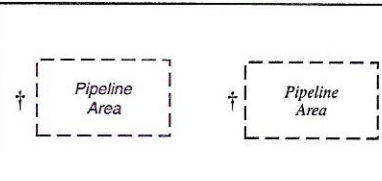
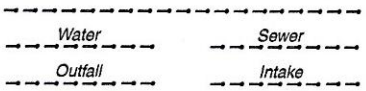
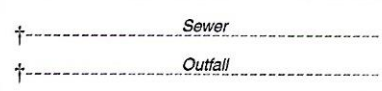
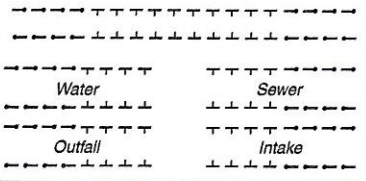
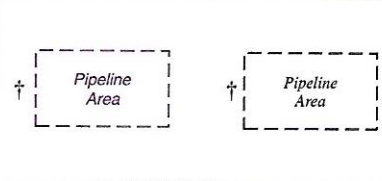
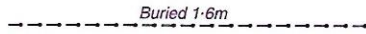

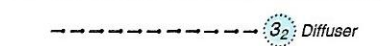
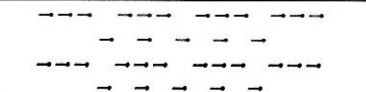
L Offshore Installations

23	 Pipe	Above-water wellhead (lit and unlit). The drying height or height above height datum is charted if known		445.7
24	 Turbine	Underwater turbine		445.10
c		Single Well Oil Production System. The depth shown is the least depth over the wellhead. For substantial periods of time a loading tanker is positioned over the wellhead	 SWOPS	
d		Underwater installations; template, manifold	 Template  Manifold	

Submarine Cables

30.1		Submarine cable		443.1
30.2		Submarine cable area	 Cable Area	443.2 439.3
31.1		Submarine power cable	 Power Power	443.3
31.2		Submarine power cable area	 Power Cable Area	443.2 439.3
32		Disused submarine cable		443.7

Submarine Pipelines

40.1	 Oil Gas Chem Water	Supply pipeline: unspecified, oil, gas, chemicals, water	 Pipeline	444 444.1
40.2	 Oil Gas Chem Water	Supply pipeline area: unspecified, oil, gas, chemicals, water	 Pipeline Area Pipeline Area	444.2 439.3
41.1	 Water Sewer Outfall Intake	Discharge pipe: unspecified, water, sewer, outfall, intake	 Sewer Outfall	444 444.4
41.2	 Water Sewer Outfall Intake	Discharge pipe area: unspecified, water, sewer, outfall, intake	 Pipeline Area Pipeline Area	444.2 439.3
42	 Buried 1-6m	Buried pipeline / pipe (with nominal depth to which buried)		444.5
43	 3g Obstr	Diffuser	 3g Diffuser	
44		Disused pipeline / pipe		444.7

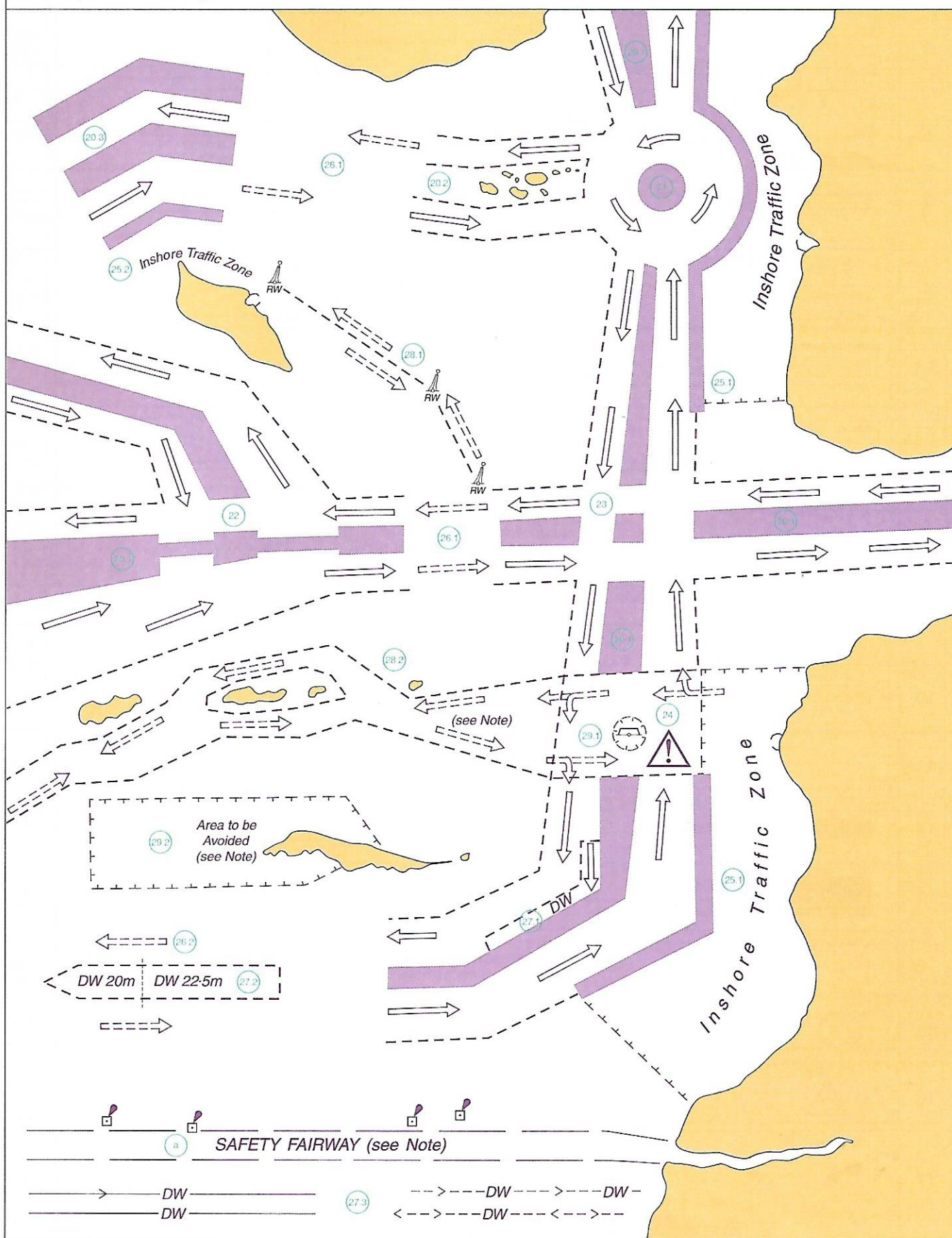
Tracks, Routes M

Tracks Marked by Lights → P		Leading Beacons → Q	Tracks	
1	 2 Bns \neq 270-5° 2 Bns \neq 270-5°	Leading line (\neq means "in line", the firm line is the track to be followed)	 Bns in Line 270°30' Ldg Bns 270-5° 270-5°	433.1 433.2 433.3
2	 2 Bns \neq 270-5° Island open of Headland 270-5°	Transit (other than leading line) Clearing line	 Bns in line 270-5°	433.4 433.5
3	 090°-270°	Recommended track based on a system of fixed marks	 090°-270°	434.1 434.2
4	 090°-270°	Recommended track not based on a system of fixed marks	 090°-270°	434.1 434.2
5.1	 SEE NOTE	One-way track combined with routing element	 SEE NOTE	432.3
5.2	 SEE NOTE	Two-way track combined with routing element (including a regulation described in a note)	 SEE NOTE	
6	 7.3m 7.3m	Recommended track with maximum authorised draught		432.4 434.3 434.4

Routeing Measures				
Basic Symbols				
10	 Established 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 area (e.g. Inshore Traffic Zone, Area to be Avoided)			435.1 436.3 439.2
15	 Limit of routeing measure			435.1 436.3
16	 Precautionary Area Precautionary area			435.2
17	 ASL (see Note)	Archipelagic Sea Lane; axis line and limit beyond which vessels shall not navigate	 ASL (see Note)	435.10



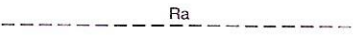

M Tracks, Routes

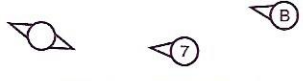


Examples of Routing Measures


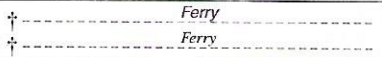



Examples of Routeing Measures (see diagram on page 36)








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
a	Safety fairway	432.2

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

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



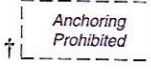

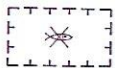
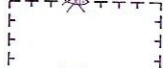
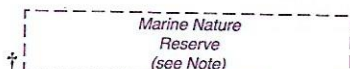






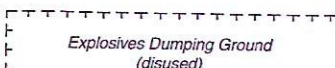
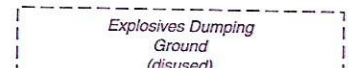
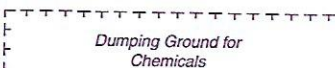



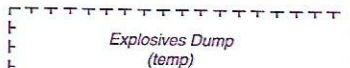


Ferries				
50	 Ferry	Ferry	 Ferry	438.1
51	 Cable Ferry	Cable Ferry		438.2

N Areas, Limits



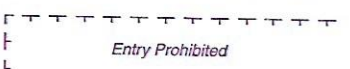
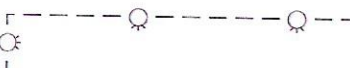
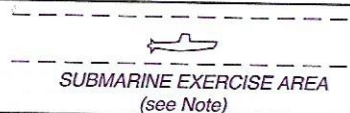
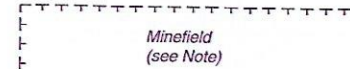
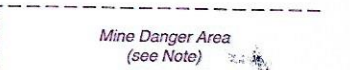
General		Dredged and Swept Areas → I	Submarine Cables, Submarine Pipelines → L	Tracks Routes → M	
1.1		Maritime limit in general, usually implying physical obstructions			439.1
1.2		Maritime limit in general, usually implying no physical obstructions	 (for emphasis)		
2.1		Limit of restricted area	 (for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

Anchorages, Anchorage Areas				
10		Recommended 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		
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 landing area		449.6
14		Anchorage for seaplanes		449.6
a		Anchorage area for small craft		

Restricted Areas

20			Anchoring prohibited, IMO-adopted No Anchoring Area			431.4 439.3 439.4
21			Fishing prohibited			439.3 439.4
22	Example --- MR --- MR ---	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
b		Explosives dump used to temporarily deposit explosives which are recovered at a later date				
c		Seabed operations dangerous/prohibited				
d		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 practice area			441.4
33		Submarine transit lane and exercise area			441.5
34		Minefield			441.8


















Hydrographic Terms **O**

Hydrographic Terms				
1		Ocean		
2		Sea		
3		Gulf	G.	
4		Bay	B.	
5		Fjord	Fj.	† Fd.
6		Sea Loch, Lough, Arm of Sea	L.	
7		Creek	Cr.	
8		Lagoon	Lag.	† Lagn
9		Cove		
10		Inlet		
11		Strait	Str.	
12		Sound	Sd.	
13		Passage	Pass.	
14		Channel	Chan.	
15		Narrows		
16		Entrance	Ent.	† Entce
17		Estuary	Est.	† Esty.
18		Delta		
19		Mouth	Mth.	
20		Roads, Roadstead	Rds.	
21		Anchorage	Anch.	† Anche.
22		Approach	Appr.	† Apprs
23		Bank	Bk.	
25		Shoal	Sh.	
26		Reef	Rf.	
27		Sunken rock		
28		Ledge	Le.	
29		Pinnacle		
30		Ridge		
31		Rise		
32		Mountain		
33	SMt	Seamount		429.1
34		Seamount chain		
35		Peak		
36		Knoll		
37		Abyssal hill		
38		Tablemount		
39		Plateau		
40		Terrace		
41		Spur		
42		Continental shelf		
43		Shelf-edge		
44		Slope		
45		Continental slope		
46		Continental rise		
47		Continental borderland		
48		Basin		
49		Abyssal plain		
50		Hole		
51		Trench		
52		Trough		
53		Valley		
54		Median valley		
55		Canyon		
56		Sea channel		
57		Moat, Sea moat		

O Hydrographic Terms

58		<i>Fan</i>		
59		<i>Apron</i>		
60		<i>Fracture zone</i>		
61		<i>Scarp, Escarpment</i>		
62		<i>Sill</i>		
63		<i>Gap</i>		
64		<i>Saddle</i>		
65		<i>Levee</i>		
66		<i>Province</i>		
67		<i>Tideway, Tidal gully</i>		
68		<i>Side arm</i>		
69		<i>Turning area, Turning basin, Turning circle</i>		


Other Terms				
80		<i>projected</i>	proj	† projd
81		<i>lighted</i>		
82		<i>buoyed</i>		
83		<i>marked</i>		
84		<i>ancient</i>		† Anct
85		<i>distant</i>	dist	
86		<i>lesser</i>		
87		<i>closed</i>		
88		<i>partly</i>		
89		<i>approximate</i>	approx	
90		<i>submerged</i>	subm	† submd
91		<i>shoaled</i>		
92		<i>experimental</i>	exper	† experi
93		<i>destroyed</i>	dest	† destd
a		<i>about</i>	abt	
b		<i>discontinued</i>	discont	† discontd
c		<i>prohibited</i>	prohib	† prohibd
d		<i>prominent</i>	prom	† promt

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	 	BY BnTr	Lighted beacon tower ‡	 	456.4 457.1 457.2
4	  	R BRB Bn	Lighted beacon ‡ On smaller scale charts, where navigation within recognition range of the daymark is unlikely, lighted beacons are charted solely as lights		457.1 457.2
5	 	R Bn	Buoyant beacon, resilient beacon ‡		459.1 459.2
6			Major floating light (light vessel, major light float, LANBY)	  LIV 	462.9 474

‡ Minor lights, fixed and floating, usually conform to IALA Maritime Buoyage System characteristics

P Lights

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

Colours of Lights				
11.1	W	White (may be omitted)		450.2
11.2	R	Red		450.3
11.3	G	Green		470.4
11.4	Bu	Blue	†	471.4
11.5	Vi	Violet		475.1
11.6	Y	Yellow		
11.7	Y	# Or	†	Or
11.8	Y	# Am		
			Colours of lights shown on: standard charts on multicoloured charts on multicoloured charts at sector lights	

Period				
12	90s Example	Period in seconds	†	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

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

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

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

P Lights

Lights marking Fairways

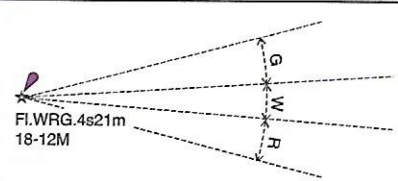
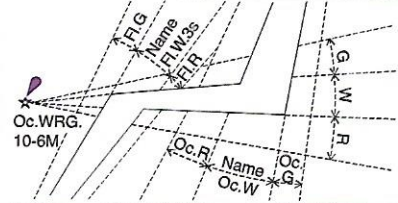
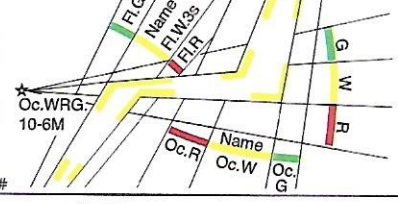

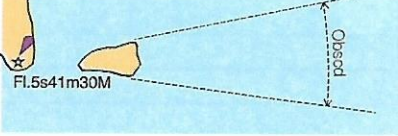
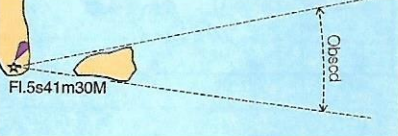
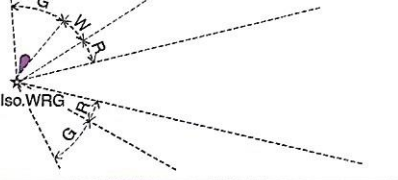

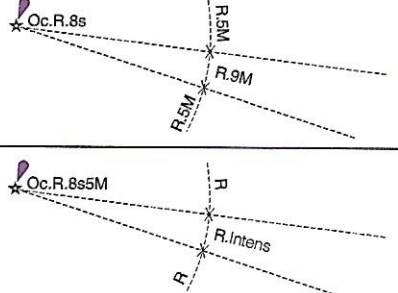
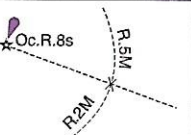
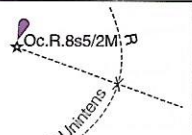
Note: Quoted bearings are always from seaward

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 description will be at the light star 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





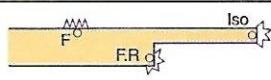


Direction Lights

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

Sector Lights				
40		Sector light on standard charts		475 475.1 475.2 475.5
41.1		Sector lights on standard charts, the white sector limits marking the sides of the fairway		475 475.1 475.5
41.2		Sector lights on multicoloured charts, the white sector limits marking the sides of the fairway		475 475.1 475.5 470.4
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
a		Light with unintensified sector	 	

P Lights


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

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
c		Navigation lights on landmarks or other structures		

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
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
Abbreviations for colours (lights) → P 11

Colour of Buoys and Beacon Topmarks

2	 G	 B	 G	 G	 G	Single colour; green (G) and black (B)	Non-IALA System †  B  G	450 450.1 450.2 450.3 464 464.1 464.2 464.3
3	 R	 R	 Y	 Y	 Or	Single colour other than green and black: red (R), yellow (Y), orange (Or)	Non-IALA System †  R  Y  Or	
4	 BY	 GRG	 BRB			Multiple colours in horizontal bands: the colour sequence is from top to bottom	Non-IALA System †  BW  RW  BR  BW	
5	 RW	 RW	 RW			Multiple colours in vertical or diagonal stripes; the darker colour is given first. In these examples, red(R), white(W) & black(B)	Non-IALA System †  RW  BR  BW  BW	
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))	Non-IALA System †  W  Gy  Bu  W (non-IALA)  Gy (non-IALA)  Bu (non-IALA)	464
b						Wreck buoy (not used in the IALA System)	†  G  G  G  G	
c						Chequered	†  BR  BW  RW  BW	

Marks with Fog Signals → R






















Lighted Marks

7	 FL.G	 FL.R	Lighted marks on standard charts (examples)	†     	457.1 466 466.1
8	 # FL.R	 Iso RW	Lighted marks on multicoloured charts (examples)		

For Application of Topmarks within the IALA System → Q 130
For other Topmarks (Special Purpose Buoys and Beacons) → Q






























Radar reflector → S








Topmarks and Radar Reflectors









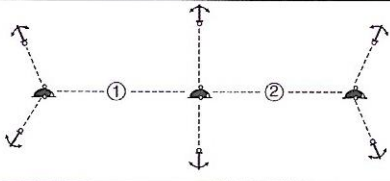
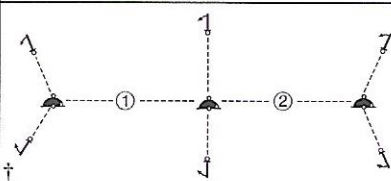


9	      	IALA System buoy topmarks (beacon topmarks shown upright)	Non-IALA System #       etc.	463 463.1
10	 Name 2 R	Beacon with topmark, colour, radar reflector and designation	 "2" R  No.2 R  Ra.Refl "2" R	450 455.2 455.7
11	 Name 3 G	Buoy with topmark, colour, radar reflector and designation. Radar reflectors are not generally charted on IALA System buoys	 "3" G  No.3  Ra.Refl "No.3"	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	Non-IALA System †    etc.	462.2
21	 	Can buoy, cylindrical buoy	Non-IALA System †    etc.	462.3
22	 	Spherical buoy	Non-IALA System †    etc.	462.4
23	 	Pillar buoy	Non-IALA System †  	462.5
24		Spar buoy, spindle buoy	Non-IALA System †     	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	†  B  R  B  	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		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

Buoys, Beacons





Q

The symbols shown below are examples: shapes of buoys may differ; lateral or cardinal buoys may be used in some situations; the use of the cross topmark is optional.

Special Purpose Buoys
















50	 DZ	Firing danger area (Danger Zone) buoy		441.2
51	 Target	Target		
52	 Marker Ship	Marker Ship		
53	 Barge	Barge		
54		Degaussing Range buoy	 DG	448.3
55		Cable buoy	Non-IALA System  Cable	443.6
56		Spoil ground buoy		446.3
57		Buoy marking outfall		444.4
58	 ODAS	Data collection buoy (Ocean Data Acquisition System) of superbuoy size	 ODAS	462.9
59		Buoy marking wave recorder or current meter		
60		Seaplane anchorage buoy		
61		Buoy marking traffic separation scheme		
62		Buoy marking recreation zone		
d		Racing mark	 B	








Seasonal Buoys










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












Q Buoys, Beacons





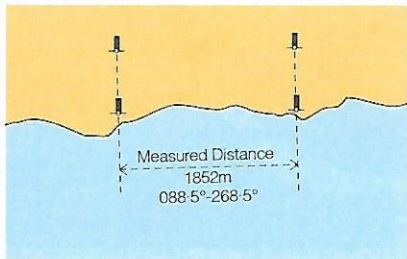




Beacons	Lighted Beacons → P	Features Common to Beacons and Buoys → Q 1-11
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General				
80	 	Beacon in general, characteristics unknown or chart scale too small to show		455.5
81	 	Beacon with colour, no distinctive topmark (examples)		455.4 456 456.3
82	  	Beacon with colour and topmark (examples)	Non-IALA System     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		

Minor Impermanent Marks usually in Drying Areas (Lateral Mark for Minor Channel)				Minor Pile → F
90		Stake, pole		456.1
91	PORT HAND 	STARBOARD HAND 	Perch, stake 	456.1
92		Withy 		456.1

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

Beacon Towers				
110	 R  G  R  G  BY  BRB	<i>Beacons towers without and with topmarks and colours (examples)</i>	 †  Bn Tower  †  Bn Tr etc.	456.4
111		<i>Lattice beacon</i>		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	 Ref	 Ref	Refuge beacon	456.4
125		Firing practice area beacons		
126		Notice board	NB	456.2

Q Buoys, Beacons

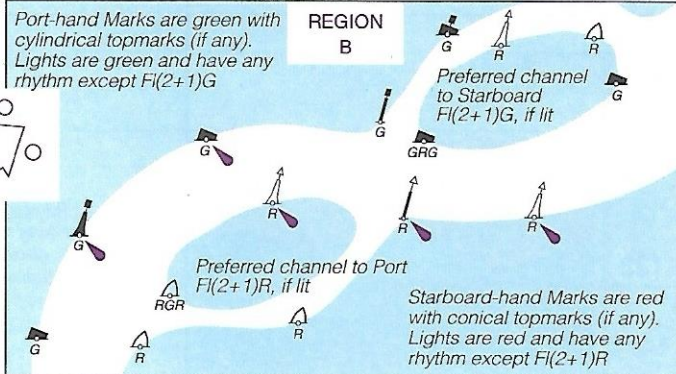
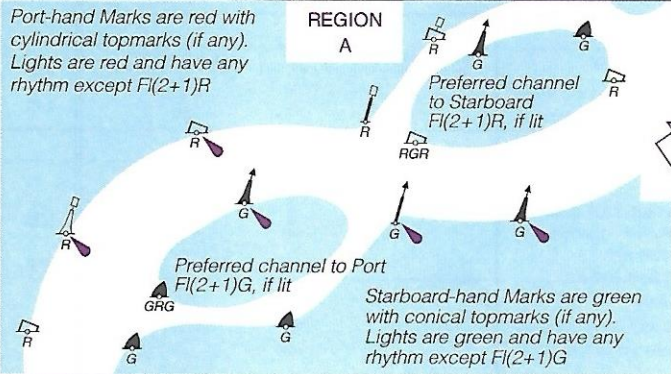
130 IALA Maritime Buoyage System

IALA International Association of 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.
Where for exceptional reasons an Authority considers that a green colour for buoys is not satisfactory, black may be used.

130.2



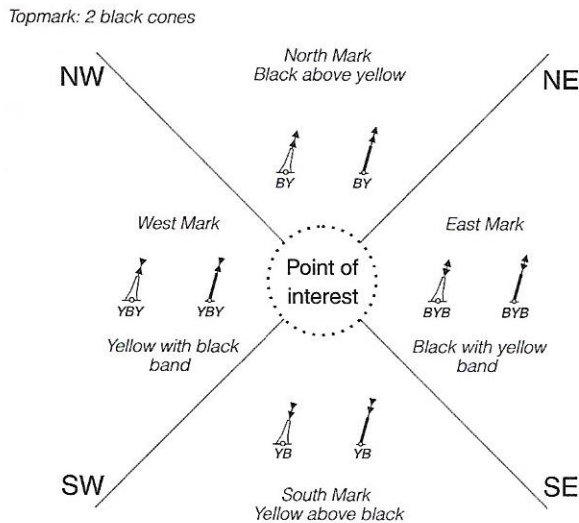
Symbol showing direction of buoyage where not obvious.



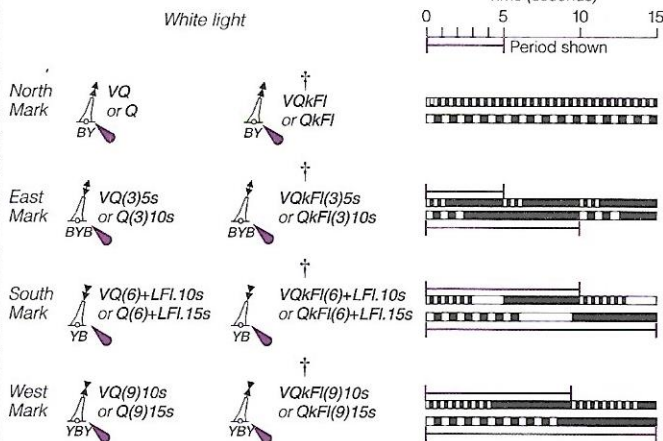
Symbol showing direction of buoyage where not obvious, on multicoloured charts (red and green circles coloured as appropriate).

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

UNLIT MARKS



LIGHTED MARKS

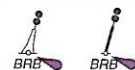


The same abbreviations are used for lights on spar buoys and beacons.
The periods, 5s, 10s and 15s, may not always be charted.

130.4

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

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

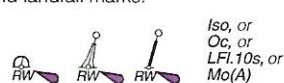


$Fl(2)$ $GpFl(2)$ White light

130.5

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

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



Iso , or Occ , or $LFl.10s$, or $Mo(A)$ White light




130.6

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




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



$Fl.Y$ etc. Yellow light






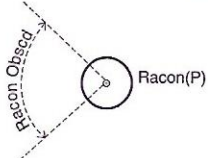
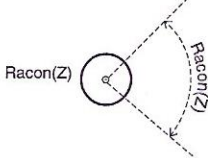


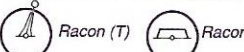


Fog Detector Light → P		Fog Light → P		General
1	  	Position of fog signal. Type of fog signal not stated		† Fog Sig 451 451.2 452.8

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

Examples of Fog Signal Descriptions				
20	 Fl.3s70m29M Siren Mo(N)60s	Siren at a lighthouse, giving a long blast followed by a short one (N), repeated every 60 seconds		452.3 453.3
21	 Bell	Wave-actuated bell buoy. The provision of a legend indicating number of emissions, and sometimes the period, distinguishes automatic bell or whistle buoys from those actuated by waves		452.5 453 454.1
22	 Q(6)+LFl.15s Horn(1)15sWhis	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	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	
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	486.5 433.3
	 Racon Racon Lts ≠ 270 Racons ≠ 270	Leading radar transponder beacons coincident with leading lights	
3.6	 Racon (T) Racon	Radar transponder beacons on floating marks (examples)	486.2
4		Radar reflector (not usually charted on IALA System buoys)	460.3 465
5		Radar conspicuous feature	485.2

Radar, Radio, Satellite Navigation Systems

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10		Non-directional marine or aeromarine radiobeacon		481.1 480.1
11		Directional radiobeacon with bearing line		481.2 433.6
		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.				202

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 P CG	Coastguard station	CGFS	492 492.1 492.2
11	CG † CG † P 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

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Chart Number, Title, Marginal Notes

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1: 75 000

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° ' " Δ ± 15 4°30'W 2004 (9'E)

TOPOGRAPHY

C
D
E
F
G

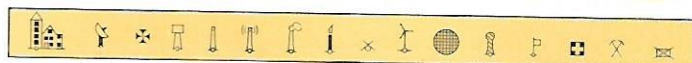
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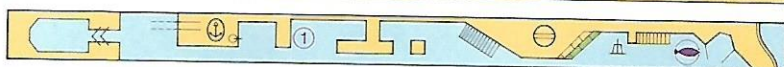
Cultural Features



Landmarks



Ports

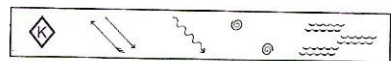


Topographic Terms

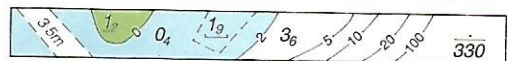
HYDROGRAPHY

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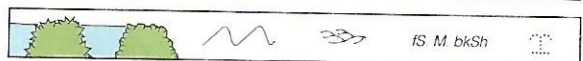
Tides, Currents



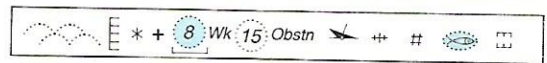
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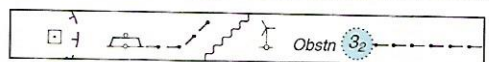
Nature of the Seabed



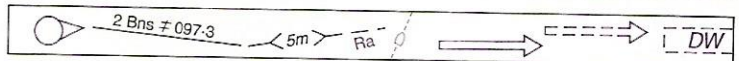
Rocks, Wrecks, Obstructions



Offshore Installations



Tracks, Routes



Areas, Limits

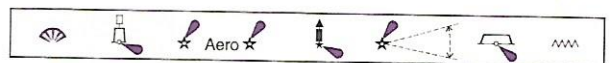


Hydrographic Terms

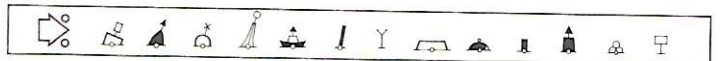
NAVIGATION AIDS AND SERVICES

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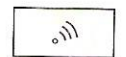
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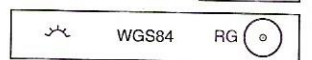
Buoys, Beacons



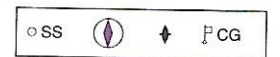
Fog Signals



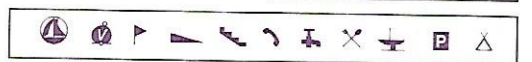
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