

ADMIRALTY

Symbols and Abbreviations used on Paper Charts





SYSTEM FOR UPDATING

Revised editions of NP5011 are published as necessary to show symbols which have been newly introduced and to record other developments in charting practice.

The more important changes introduced between editions are issued in ADMIRALTY Notices to Mariners as consecutively-numbered updates. On receipt of these updates the appropriate changes should be made as instructed and a record of the update noted in the table below.

Copies of ADMIRALTY Notices to Mariners can be obtained from authorised ADMIRALTY Chart Agents, or from admiralty.co.uk

NOTICES TO MARINERS

UPDATE NUMBER	NM NUMBER/YEAR	SECTION REFERENCE	SUBJECT



Contents Key

NP5011 INT1 Edition 8 - 2020



SYMBOLS and ABBREVIATIONS used on Paper Charts

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Inside back cover

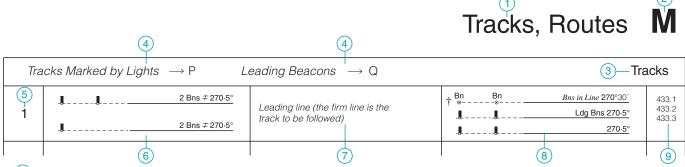
INTRODUCTION

General

NP5011 is primarily a key to symbols and abbreviations used on ADMIRALTY and International paper and raster charts and leisure folios compiled by the UK Hydrographic Office (UKHO). Variations may occur on charts adopted into the ADMIRALTY Series that were originally produced by another hydrographic office. Where these symbols and abbreviations are easily understood they will not be included as examples in this publication. Symbols and abbreviations shown on Electronic Chart Display and Information Systems (ECDIS) may differ from those described in this document; a key to such symbols is available: NP5012.

Schematic Layout of NP5011

This edition of NP5011 is based on the International Hydrographic Organization (IHO) Publication S-4 Parts B and C "Chart Specifications of the IHO" adopted in 1982, with later additions and updates.



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

The mark † indicates that this representation or usage is obsolescent.

The mark # in Columns 2, 3 and 4 indicates that this symbol will only be found on paper charts adopted into the 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 & Metric units are introduced on charts as they are modernised. Remaining Fathom and/or feet charts can be distinguished Fathoms Charts from metric charts by the use of grey for land areas, a note in the title block and in some cases by a prominent legend in the margin.

Chart Datum

On metric charts, the reference level for soundings is given under the chart title. On fathoms charts, the reference level for soundings may be given under the title; if not, it can be deduced from the tidal information panel.

Depths

The units used are given under the title of the chart. The position of a sounding is the centre of the area covered by the figures.

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

On fathom charts, depths are generally expressed in fathoms and feet where less than 11 fms, and in fathoms elsewhere. Where source information is sufficiently precise, depths between 11 and 15 fms may be given in fathoms and feet. Older charts may show fractions of fathoms in depths of 10 fathoms or less, and some 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 (e.g. 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.

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, usually in parentheses, in the following circumstances:

- a. if the retention of a superseded rendering will facilitate cross-reference to related publications;
- b. if, in the case of a name that has changed radically, the retention of the former one will aid recognition;
- c. if it is decided to retain an English conventional name in addition to the present official rendering.

Chart Catalogues

Details of ADMIRALTY charts are given in the "Catalogue of ADMIRALTY Charts and Publications" (NP131), and regional catalogue "North West Europe" (NP109), both published annually, and in the ADMIRALTY online Catalogue.

The Mariner's Handbook and other Publications

The Mariner's Handbook (NP100) includes information on the following:

The use of charts and the degree of reliance that may be placed on them; chart supply and updating; depth and height datums; names; related publications; navigation (including regulations, routeing, hazards and aids to navigation); 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.

How to Keep Your ADMIRALTY Products Up-to-Date

How to Keep Your ADMIRALTY Products Up-to-Date (NP294) provides comprehensive guidance on how to update both paper and digital ADMIRALTY charts and publications.

Copyright

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A Chart Number, Title, Marginal Notes

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

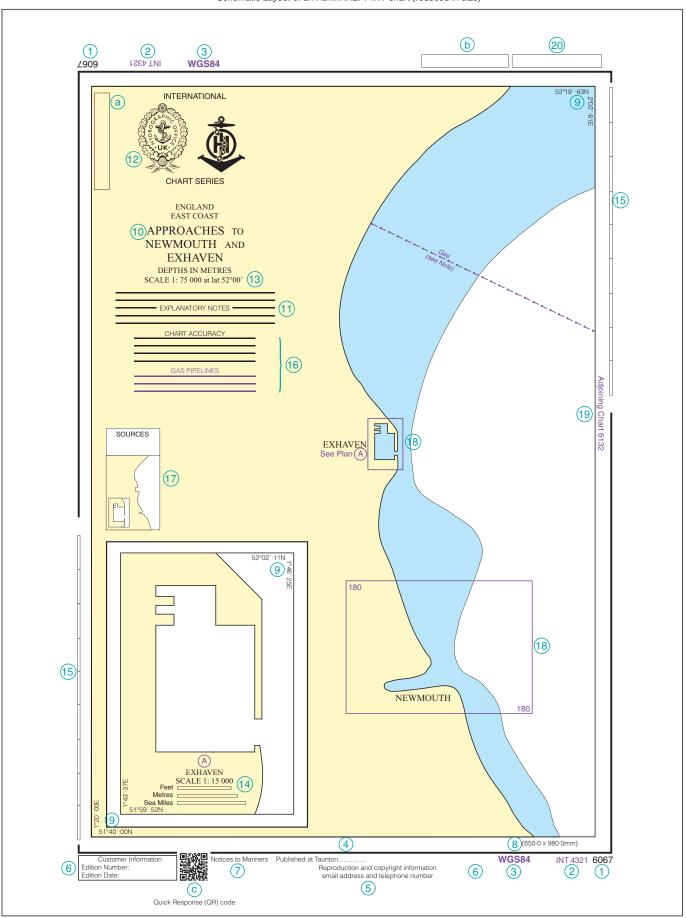


Chart Number, Title, Marginal Notes A



Ма	gnetic Features → B	Tidal Data → H	Satellite Navigation Systems	\rightarrow S
1	Chart number in the series.			251
2	Chart number in the International (INT) Chart series.			251.1
3	Use of WGS84 geodetic reference system. A reference	e to the depth units may be shown.		201 255.3
4	Publication note (imprint) showing the date of publication	ion as a New Chart.		252.1 252.4
5	Reproduction and Copyright acknowledgement note. A	All ADMIRALTY charts are subject to 0	Crown Copyright restrictions.	253
6	Customer Information: Edition Number and Date. (Char	rts revised prior to May 2000 have Ne	ew Edition date at bottom right of chart)	252.2
7	Notices to Mariners: (a) the year dates and numbers included in reprints but not formally promulgated (ab. have the legend 'Small corrections').			252.3
8	Dimensions of the inner neat-lines of the chart border projections, dimensions may be quoted for all borders e.g. (38.40 x 25.40).			222.3 222.4
9	Corner co-ordinates.			214
10	Chart title. This should be quoted, in addition to the chart	art number, when ordering a chart.		241.3
11)	Explanatory notes on chart content; to be read before	using the chart.		242
12	Seals. Where a chart is in the International Chart ser addition to the national seal. Reproductions of interna (left), publisher (centre) and the IHO (right). Reprodu (right); charts which are co-productions carry the seals	ational charts of other nations (facsin uctions of other charts have the sea	nile) have the seals of the original producer Is of original producer (left) and publisher	241.1 241.2
13	Scale of chart; on Mercator projection, at a stated latitude	ide.		211 241.4
14)	Linear scales on large-scale plan.			221
15)	Linear border scales (metres). On smaller scale charts	, the latitude border should be used t	o measure Sea Miles and Cables.	221.1
16	Cautionary notes (if any) on charted detail; to be read	before using the chart.		242
17)	Source Diagram (if any). If a Source Diagram is not she explanatory notes (see 11). The Source Diagram or 1 the reliability of the sources. See also section V.			290-298
18	Reference to a larger scale chart or plan (with reference	e letter if multiple plans on same cha	rt). May also be shown in yellow.	254
19	Reference to an adjoining chart of similar scale.			254
20	Note 'IMPORTANT - THE USE OF CHARTS'. Reference	s to other publications.		243
a	Conversion scales. To allow approximate conversions are given instead.	between metric and fathoms and fee	et units. On older charts, conversion tables	280
Ь	Copyright Notice.			
©	Quick Response (QR) code.			243.1

B Positions, Distances, Directions, Compass

Geo	Geographical Positions					
1	Lat	Latitude				
2	Long	Longitude				
4	٥	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	Е	East			131.1	
11	S	South			131.1	
12	W	West			131.1	
13	NE	North-east				
14	SE	South-east				
15	NW	North-west				
16	SW	South-west				

Control Points, Distance Marks						
20	Δ	Triangulation point		304.1		
21	†	Observation spot	+ Obs Spot + Obsn. Spot	304.2		
22	⊙ ∘	Fixed point		125.3		
23	†	Benchmark	<mark>† </mark>	304.3		
25.1	km 32	Distance along waterway, no visible marker		007		
25.2	km 32	Distance along waterway, with visible marker		307		
а	0	Viewpoint	∘ See View	390.2		

Sym	Symbolised Positions (Examples)						
30		II	#	18 ₃ Wk	Symbols in plan: position is centre of primary symbol		
31		\$	₽	ŕ	Symbols in profile: position is at bottom of symbol		125.3
32		⊙ Mast	⊙ MAST	*	Point symbols		125.5
33	†		○ Mast PA		Approximate position		

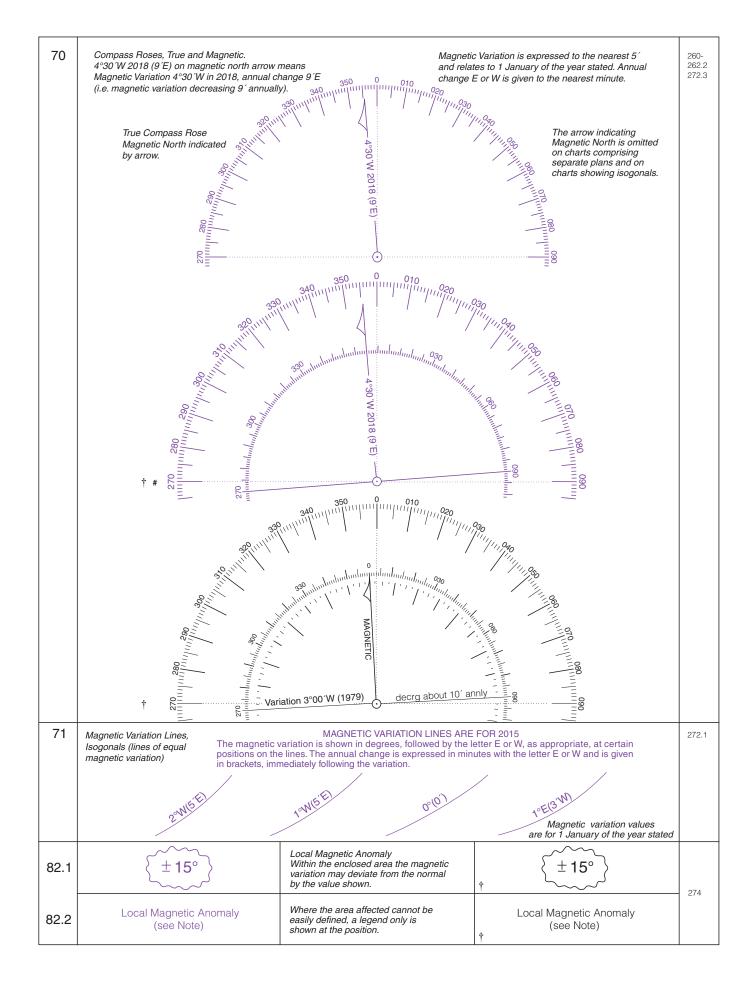
Positions, Distances, Directions, Compass **B**



					Units
40	kı	m	Kilometre(s)		
41	r	n	Metre(s)		130
42	d	m	Decimetre(s)		130
43	CI	m	Centimetre(s)		
44	m	m	Millimetre(s)		130
45	М		International Nautical Mile(s) (1852m), Sea Mile(s)	n mile(s) M	130
47	ft		Foot/feet		
48	fm,	fms	Fathom(s)	fm., fms.	
49	ł	1	Hour		130
50	m #	min	Minute(s) of time		130
51	s	sec	Second(s) of time	† sec	130
52	kn		Knot(s)		130
53	t		Tonne(s), Ton(s), tonnage (weight)		328.3
54	c	d	Candela		

	Magnetic Compass					
68.1	Magnetic Variation 4°30′W 2015 (8′E)	Note of magnetic variation, in position		272.2		
68.2	Magnetic Variation at 55°N 8°W 4°30′W 2015 (8′E)	Note of magnetic variation, out of position	Magnetic Variation: 4°30′W 2015 (8′E)	212.2		

B Positions, Distances, Directions, Compass

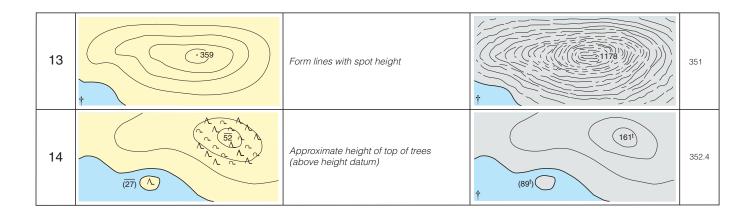


Natural Features **C**

Fore	Foreshore → I, J					
1		Coastline, surveyed		310.1 310.2		
2		Coastline, unsurveyed		311		
3	TO THE WAY THE WITTER THE WAY	Steep coast, Cliffs	TRAMENTAL THE TRANSPORT OF THE THE TRANSPORT OF THE TRANS	312.1		
4	***	Hillocks		312.1		
5		Flat coast		312.2		
6		Sandy shore	†	312.2		
7	Stones	Stony shore, Shingly shore		312.2		
8	Sand dunes	Sandhills, Dunes	t	312.3		

Plai	Plane of Reference for Heights $ ightarrow$ H			
10	(250 - 250 - 200 - 100 - 100 - 100 - 50 - 100 -	Contour lines with values and spot height		351.3 351.5 351.6 352.2
11	·437 ·359 ·189 ·189 ·123 ·17 ·17 ·17 ·17 ·17 ·17 ·17 ·1	Spot heights		352.1 352.2
12	360) 300 – -200 – -100 –	Approximate contour lines with values and approximate height		351.3 351.4 351.5 351.6 352.3

C Natural Features



Wat	er Features, Lava		
20	Name	River, Stream	353.1 353.2
21		Intermittent river, Intermittent lake	353.3 353.6
22		Rapids, Waterfalls	353.5
23		Lakes	353.6
24	Salt pans	Salt pans	353.7
25	Glacier	Glacier the state of the state	353.8
26		Lava flow	355

Natural Features **C**

				Vegeta	ation
30		Wooded	Woods in general		354.1
31			Prominent trees (isolated or in groups)		
31.1	Ŷ	P P P	Deciduous tree, unknown or unspecified tree		
31.2	\$	Ŷ _Ŷ Ŷ	Evergreen (except conifer)		
31.3	\$	* *	Conifer, Casuarina		
31.4	*	IA IA IA	Palm		354.2
31.5	† *	* * *	Nipa palm		
31.6	† *	森森森	Casuarina		
31.7	¥	Ψ Ψ Ψ	Filao		
31.8	Î †	至至至	Eucalypt		
32	a a		Mangrove, Nipa palm	† † †	312.4
33		Marsh Marsh	Marsh, Swamp, Salt marsh, Reed beds	Saltings Saltings	312.2

D Cultural Features

Set	tlements, Building	S	Height	t of objects → E	Landmarks –	→E
1			Urban area			370.4
2			Settlement with scattered buildings			370.5
3	O Name	□ Name	Settlement (on medium and small-scale charts)	■ Name		370.7
4	☆ Name	Name HOTEL	Inland village			370.6
5	- 6 -		Building	Bldg		370.5
6	Name Hotel	Name	Important building in built-up area			370.3 370.4
7	NAME	NAME	Street name, Road name			371
8	[, Ru	☐ Ru	Ruin, Ruined landmark	†		378 378.2

Roa	Roads, Railways, Airfields						
10	4	Motorway		365.1			
11		Road (hard surfaced)		365.2			
12		Track, Path (loose or unsurfaced)		365.3			
13	#	Railway, with station	† Rly † Ry † Sta † Stn	328.4 362.1 362.2			
14	Authoriting Authoriting	Cutting	+ 4444444444444444444444444444444444444	363.2			
15		Embankment	+ <u>annullillillillillillilli</u> - <u>annullillillillillillillillillillillillilli</u>	364.1			
16	⇒=== (← →)(←	Tunnel		363.1			
17	Airfield	Airport, Airfield		366.1 366.2			
18	$oldsymbol{\mathbb{H}}$	Heliport, Helipad		366.3			
а		Tramway					

Cultural Features **D**

Pla	Plane of Reference for Heights → H Other Cultural Features					
20.1		Fixed bridge		381.1		
20.2		Footbridge, fixed bridge on smaller scale charts		381.1		
21	F234	Horizontal clearance		380.3		
22	20	Vertical clearance (see 'Heights' in Introduction)	(H 17m)†•)(Headway 55ft)†	380.2		
23.1		Opening bridge (in general) with vertical clearance	†			
23.2	Swing Bridge	Swing bridge with vertical clearance				
23.3	Lifting Bridge (open 12)	Lifting bridge with vertical clearance (closed and open)		381.3		
23.4	Bascule Bridge	Bascule bridge with vertical clearance		301.3		
23.5	Pontoon Bridge	Pontoon bridge	†			
23.6	Draw Bridge	Draw bridge with vertical clearance				
24	Transporter Bridge	Transporter bridge with vertical clearance between Height Datum and lowest part of fixed structure		381.2		
25	20	Overhead transporter, Aerial cableway with vertical clearance		382.3		
26.1	o- • -	Overhead power cable with pylons and physical vertical clearance	Power (H 30m) Power Overhead (H.98ft)	382.1		
26.2	o- • -	Overhead power cable with pylons and safe vertical clearance		002.1		
Note:	Note: The safe vertical clearance above Height Datum to avoid risk of electrical discharge, 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 D22.					
27	20	Overhead cable, Telephone line, with vertical clearance	† H 20m Overhead (H.64ft)	382 382.2		
28	Overhead pipe	Overhead pipe with vertical clearance		383		
29	4-	Pipeline on land	†Pipeline	377		

E Landmarks

Ger	neral Plane of Reference for Heigh	ts →H Lighthouses	ightarrowP Beacons $ ightarrow$ Q	
1	Factory	Examples of landmarks		340
2	FACTORY ⊙ HOTEL	Examples of conspicuous landmarks. A legend in capital letters indicates that a feature is conspicuous	conspic	340.3
3.1		Pictorial sketches (in true position)		340.2 340.5 373.1
3.2		Pictorial sketches (out of position)		390 456.5 457.3
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

Lan	Landmarks								
10.1		4		Ch	Church	†	Cath		373.1 373.2
10.2		Tr)		∯ Tr	Church tower				
10.3		Sp)		₩ Sp	Church spire				373.2
10.4		Cup		♣ Cup	Church cupola (dome)				
13		¤			Temple, Pagoda, Shrine, Joss house	근 †	#	Pag	373.3
17	ŏ			Mosque, Minaret	†	첮		373.4	
19				Cemetery (all religions)	† + + + + + + + + + + + + + + + + + + +	† †	Cemy	373.6	
20	I			Tr	Tower				374.3
21		I			Water tower, Water tank on a tower		⊙ Water Tr		374.2 376
22	f			C hy	Chimney				374.1
23	ı			Flare stack (on land)				374.1	
24	()			Mon	Monument (including column, pillar, obelisk, statue, calvary cross)	Mont †	Col †	±	374.4
25.1	*			Windmill				374.5	
25.2		& I	Ru		Windmill (without sails)	†	፠ (ru)		378.2

Landmarks **E**

			Wind toulsing	1		
26.1	<u> </u>		Wind turbine Wind motor	† #	†	374.6
26.2	P		Onshore wind farm			
27	₽	FS	Flagstaff, Flagpole			374.7
28	£)) L	Radio mast, Television mast, Mast	⊙ Radio mast⊙ TV mast	A	375.1
29	()))	Radio tower, Television tower	⊙ Ra ⊙ TV		375.2
30.1	⊙ Radar Mast	⁽ ∫) Radar	Radar mast			
30.2	⊙ Radar Tr	⁽ ∬ Radar	Radar tower	((])	487.3
30.3	⊙ Rada	ır Sc	Radar scanner	((J)	
30.4	⊙ Radome		Radome			
31	ţ		Dish aerial	⊙ Dish aerial †		375.4
32	•••	Tanks	Tanks	† 0		376.1 376.2
33	Silo	⊙ Silo	Silo			376.3
34.1	蒙	7 Fort	Fortified structure (on large-scale charts)			379.1
34.2	ī	I	Castle, Fort, Blockhouse (on smaller scale charts)	∳ Ft	Cas	379.2
34.3	E	1	Battery, Small fort (on smaller scale charts)	→ Batt	Baty	379.2
35.1	MILLIA		Quarry (on large-scale charts)	†	P\$-	367.1
35.2	×		Quarry (on smaller scale charts)			367.2
36	*		Mine			367.2
37.1			Caravan site			260
37.2	Σ	, \	Camping site, camping and caravan site			368

F Ports

Pro	Protection Structures					
1	Julius the state of the state o	Dyke, Levee, Berm	† *	313.1		
2.1		Seawall (on large-scale charts)		313.2		
2.2	The state of the s	Seawall (on smaller scale charts)		313.2		
3	Causeway	Causeway		313.3		
4.1		Breakwater (in general)		322.1		
4.2	\$65.50 \$65.50 \text{\$65.50 \text{\$65.5	Breakwater (loose boulders, tetrapods, etc)	88888888888888888888888888888888888888			
4.3		Breakwater (slope of concrete or masonry)				
5	Training Wall (covers)	Training wall		322.2		
6	0	Groyne (always dry)		313.4 324		
	0	Groyne (intertidal)				
	ij	Groyne (always underwater)				

Harb	Harbour Installations $Depths \rightarrow I$ Anchorages, $Limits \rightarrow N$ Beacons and other fixed marks $\rightarrow Q$					
10	⊕	Fishing harbour		320.1		
11.1	•	Boat Harbour, Marina				
11.2	4	Yacht berth without facilities		320.2		
11.3	>	Yacht club, Sailing club				

Ports **F**

12	\$25-5-8-8-8-8-8-8-8-8-8-8-8-8-8-8-8-8-8-8	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		324.3
17	Lindg Lindg	Landing for boats	Ldg	324.2
18		Steps, Landing stairs		324.4
19.1	(4) (B) (234)	Designation of berth	†	321.7
19.2	O	Visitors' berth		321.8
19.3	•	Dangerous Cargo berth		321.8
20	□ □ Dn ☐ Dns	Dolphin	[†	327.1
21	Ф	Deviation dolphin		327.2
22	•	Minor post or pile		327.3
23	Slip Slip Ramp	Slipway, Patent slip, Ramp		324.1 324.2
24		Gridiron, Scrubbing grid, Careening grid		326.8
25		Dry dock, Graving dock	+	326.1
26	← Floating Dock	Floating dock	†(> †(> †(>	326.2
27	7-6m	Non-tidal basin, Wet dock		326.3
28	0	Tidal basin, Tidal harbour		326.4

F Ports

29.1	Log Pond Floating Barrier	Floating barrier, e.g. security, containment booms (ice, logs, oil), shark nets: with support without supports		449.2
29.2	Bubble Curtain	Bubble curtain (bubbler, pneumatic pipe)		444.10
30	Dock under construction (2018)	Works on land, with year date		329.1
31	Being reclaimed (2018)	Works at sea, Area under reclamation, with year date		329.2
32	Under construction (2018) Works in progress (2018)	Works under construction, with year date	const † constrn. † constn	329 329.4
33.1	Ru	Ruin		378.1
33.2	Pier (ru)	Ruined pier, partly submerged at high water		
34	Hulk	Hulk		330
а		Bollard	• Bol	

Canals, Barrages Clearances		s ightarrow D Signal Stations $-$	→ T Cultural Features → D		
40			Canal		361
41.1	Lo	ck	Lock (on large-scale charts)		
41.2			Lock (on smaller scale charts)	†	326.6
42			Caisson, Gate		326.5
43	Flood Barrage		Flood barrage		326.7
44	Dam		Dam, Weir → Direction of flow		364.2

Transhipment Facilities Roads		ightarrow D Railways $ ightarrow$ D Tanks $ ightarrow$ E	
50	RoRo	Roll-on, Roll-off (RoRo) Ferry Terminal	321.5
51	2 3 2 3	Transit shed, Warehouse (with designation)	328.1
52	#	Timber yard	328.2
53.1	(3t) ⁶	Crane (with lifting capacity) Travelling crane on railway	328.3
53.2	(50t)	Container crane (with lifting capacity)	

Ports **F**

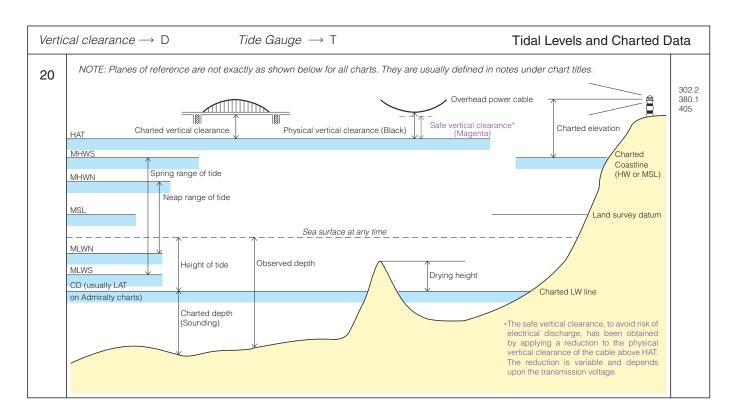
Publ	Public Buildings					
60	0	Harbour Master's office	† Hr Mr	325.1		
61	⊖	Custom office		325.2		
62.1	0	Health office, Quarantine building		325.3		
62.2	Hospital	Hospital	⊕ Hosp †Hospl	323.3		
63	†	Post office	† PO	372.1		

H Tides, Currents

Terms Relating to Tidal Levels

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

Tides, Currents H



									Tide Table
	Tabular statement of semi-diu	urnal or diui	rnal tides						40
			Tidal Lev	els referre	d to Datui	m of Soul	ndings		40
	Di	Lat.	Long.	Heights i	in metres/	feet abov	e datum	Detrois and Demonstra	
	Place	N/S	E/W	MHWS	MHWN	MLWN	MLWS	Datum and Remarks	
				MHHW	MLHW	MHLW	MLLW		
1									
	Tidal stream table Tidal streams referred to								4(
	Tidal streams referred to	•		®	•		•		
	Tidal streams referred to Geographical Position	-6			\&			No No	
	Tidal streams referred to Geographical Position	-6 -5 -4		©	\&		♦		
	Tidal streams referred to Geographical Position	-6 -5 -4 -3 -2		©	\&		♠	No	
	Tidal streams referred to Geographical Position	-6 -5 -4 -3		(a)			◆	No Maximum Rates	
	Tidal streams referred to Hours Geographical Position	-6 -5 -4 -3 -2 -1 0 +1		(B)	©		• • • • • • • • • • • • • • • • • • •	No	
	Tidal streams referred to Hours Geographical Position	-6 -5 -4 -3 -2 -1 0 +1 +2 +3		⑤	\$			No Maximum Rates For predictions, use	
	High Water Decitions of streams (degrees) Heates at spring tides (knots) Pates at neap tides (knots) Rates at neap tides (knots)	-6 -5 -4 -3 -2 -1 0 +1 +2		⑤	•		♠	No Maximum Rates For predictions, use	

H Tides, Currents

Tida	al Streams and Currents		Breakers →K Tide Gauge -	→ T
40	_{mm} 3kn →	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	407.4 408.2
41	2•8kn →	Ebb tide stream (with mean spring rate)	Low Water at which the streams are running	407.4 408.2
42	# ****	Current in restricted waters	>>>>> → †	408.2
43	(see Note)	Ocean current. Details of current strength and seasonal variations may be shown		408.3
44		Overfalls, tide rips, races	₩	423.1
45	© © © © © ©	Eddies		423.3
46	♦	Position of tabulated tidal stream data with designation	†	407.2
47	а	Offshore position for which tidal levels are tabulated		406.5
е		Wave recorder (see L25)	○ Wave recorder	
f		Current meter (see L25)	∘ Current meter †	

Depths |

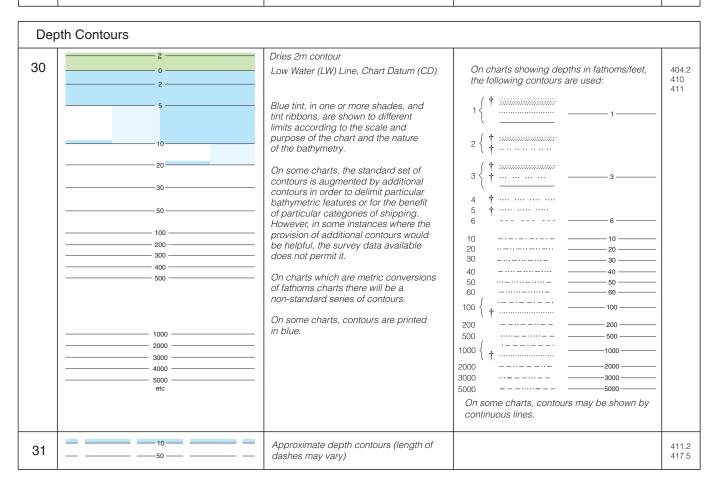
			Ger	eral
1	ED	Existence doubtful	(ED)	417 424.3
2	SD	Sounding of doubtful depth		417 424.4
3.1	Rep	Reported, but not confirmed	Repd	417 424.5
3.2	Rep (1973)	Reported, with year of report, but not confirmed	Repd (1973)	
4	† 212	Reported, but not confirmed, sounding or danger (on small-scale charts only)		S-4 Part C 404.3
а		Unexamined	unexam †unexamd	

Plan	e of Referen	ce for Dept	hs → H	Plane of Reference for Heights → I	⊣ Sounding	gs and Drying Hei	ghts
10	12	92	_# 9,7	Sounding in true position			403.1 410/412 412.1
11	• (48)	+ (12)	3349	Alongside depth, Sounding out of position	· (8 ₃) (10 ₄)	+1 ₈ 8 ₇ <u>7</u> ₁	412 412.1 412.2
12		(147)	-	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 which are unreliable (e.g. taken from old or smaller scale sources) shown in fine, upright figures			412.4 417.3
15	49	2 2 0	<u>Q9</u> <u>34</u>	Drying heights and contours above chart datum			413 413.1 413.2
16	14 0 0 0 6	17	25 27	Natural watercourse (in intertidal area)			413.3

Plane of Reference for Depths → H Depths in Channels and Areas				eas
20		Limit of dredged channel or area (major and minor)	#	414
21	7·0m 3·5m	Dredged channel or area with minimum depth regularly maintained	Depths may be shown as 3,5 or 3_5 on some adopted charts. There may be a note to clarify the maintenance regime	414
22	17m (2011) 8-2m (2011)	Dredged channel or area with minimum depth not regularly maintained and year of latest survey		414.1

Depths

24	9 ₆ (2011) 9 ₈ /	Area swept by wire drag. The depth is shown at Chart Datum. (The latest date of sweeping may be shown in parentheses)	<u>64</u> (1990)	415 415.1
25	# Depths (see Note) or (see Source Diagram) Inadequately surveyed # Depths (see Note) or (see Source Diagram) #	Unsurveyed or inadequately surveyed area; area with inadequate depth information		410 417 417.6 417.7 418



Nature of the Seabed **J**

Rocks	s →K		Types of Sea	abed
1	S	Sand	† s	425- 427
2	М	Mud	† m	
3	Су	Clay	† cl	
4	Si	Silt		
5	St	Stones	† st	
6	G	Gravel	ţ g	1
7	P	Pebbles	peb	
8	Cb	Cobbles		
9.1	R	Rock, Rocky	† r	
9.2	Во	Boulder(s)		421.2 425-427
10	Со	Coral	† crl	425-
11	Sh	Shells	† sh	427
12.1	S/M	Two layers e.g. Sand over Mud	#M (25)/SG S (<1)/R (Thickness of surface layer in metres)	425.8
12.2	fS.M.Sh	Mixed: where the seabed comprises a mixture of materials, the main constituent is given first, e.g. fine Sand with Mud and Shells		425.9
13.1	Wd		† wd	425.5
13.2	≪€	Weed (including Kelp)		428.2
13.3	Sg	Seagrass		425.6
14	\sim	Sandwaves		428.1
15	<u></u>	Spring in seabed		428.3
а		Ground	† Gd grd	
b		Ooze	† Oz	
С		Marl	† MI	
d		Shingle	→ Sn shin	
е		Chalk	† Ck chk	
f		Quartz	† Qz qrtz	
g		Madrepore	† Md mad	
h		Basalt	† Ba	
i .		Lava	† <i>Lv</i>	
j		Pumice	† Pm pum	
k		Tufa	† <i>T</i>	
 		Scoriæ	† Sc	
m		Cinders	† Cn cin	

J Nature of the Seabed

n	Manganese	† Mn man
0	Glauconite	† Gc
р	Oysters	<i>Oy</i> oys
q	Mussels	† Ms mus
r	Sponge	† Sp
S	Algae	† Al
t	Foraminifera	† Fr for
u	Globigerina	† GI
V	Diatoms	D i
W	Radiolaria	† Rd rad
Х	Pteropods	† Pt
У	Polyzoa	† Po pol

Inte	rtidal Areas				
20	S S S	Area of sand and mud with patches of stones or gravel		4	426.1
21	4 x (40) 1	Rocky area	Le La	1 + 1 + 1 + 1 + 1 + 1 + 1 + 1 + 1 + 1 +	426.2
22	= 18 yx 44 L M 5 * (29) = 10 0 0 0 0	Coral reef	E E CHAINMAN ENTERS	ery were which	426.3

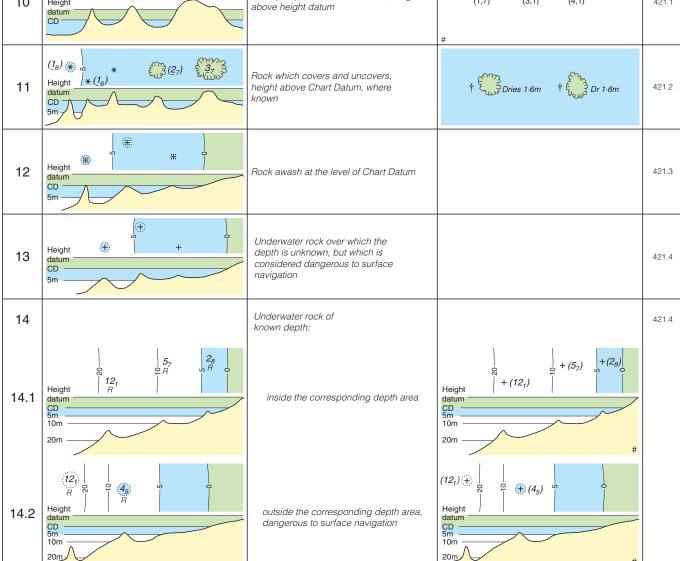
Qua	lifying Terms			
30	f	Fine		425 427
31	т	Medium only used in relation to sand		
32	С	Coarse		
33	bk	Broken	† brk	
34	sy	Sticky	† stk	
35	so	Soft	† sft	
36	sf	Stiff	† stf	
37	V	Volcanic	† vol	
38	са	Calcareous	† cal	
39	h	Hard		425.5 425.7

Nature of the Seabed $\, {f J} \,$

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

K Rocks, Wrecks, Obstructions, Aquaculture

Ger	neral			
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.
2	<u>7</u> 5_	Depth swept by wire drag or confirmed by diver. The symbol may be used with other symbols, e.g. wrecks, obstructions, wells		415 422.: 422.:
3	(12)	Safe clearance depth. The exact depth is unknown, but is estimated to have a safe clearance at the depth shown. The symbol may be used with other symbols, e.g. obstructions, wrecks, wells, turbines		422.5 422.5 422.5
а		Dries	† Dr	
b		Covers	†cov	
С		Uncovers	† uncov	
Roc	ks Plane	e of Reference for Heights → H	Plane of Reference for Depths -	→ H
10	Height datum CD	Rock (islet) which does not cover, height above height datum	(1,7) (3,1) (4,1) #	421.
11	$(\underline{1}_{6}) \underset{\text{b}}{\text{Height}} * * (\underline{1}_{6})$ $\frac{37}{37}$ $\frac{37}{37}$ $\frac{37}{37}$ $\frac{37}{37}$ $\frac{3}{5}$ $\frac{37}{5}$ 3	Rock which covers and uncovers, height above Chart Datum, where known	† Dries 1.6m † Lung Dr 1.6m	421.
12	Height ## ##	Rock awash at the level of Chart Datum		421.:



Rocks, Wrecks, Obstructions, Aquaculture K

15	35 R		Underwater rock of known depth, not dangerous to surface navigation			421.4
16	+ + Co + Co 5 ₈		Coral reef which is always covered			421.5
17	>	18 Br 19	Breakers			423.2
d			Discoloured water	Discol	† Discold	424.6

	Hulk \rightarrow F Plane of R	eference for Depths → H	Wrecks and	Fouls
20	Mast (1·2) Wk	Wreck, hull never covers, on large-scale charts		422.1
21	Mast (<u>1</u> ₂) Wk	Wreck, hull covers and uncovers, on large-scale charts	† † †	
22	55 Wk 65 Wk	Submerged wreck, depth known, on large-scale charts	€ wk	422.1
23	Wk	Submerged wreck, depth unknown, on large-scale charts	O wk	422.1
24	*	Wreck showing any part of hull or superstructure at the level of Chart Datum		422.2
25	## Masts	Wreck of which the mast(s) only are visible at Chart Datum	Mast (1-2) Wk Mast (1 ₂)	422.2
26	(4 ₆) Wk (25) Wk	Wreck over which the depth has been obtained by sounding but not by wire drag		422.4
27	4 ₆ Wk 25 Wk	Wreck, depth swept by wire drag or confirmed by diver		422.3
28	*	Wreck, depth unknown, which is considered potentially dangerous to surface navigation		422.6
29	+++	Wreck which is considered not dangerous to surface navigation. Depth over wreck unknown, or water depth greater than 200m. For information about depth criteria which may vary, see NP100, The Mariner's Handbook		422.6
е		Submerged wreck, depth unknown	†	

K Rocks, Wrecks, Obstructions, Aquaculture

30	20 Wk	Wreck over which the exact depth is unknown, but which is estimated to have a safe clearance at the depth shown		422.5 422.7
31.1	# # (22)	Foul ground, not dangerous to surface navigation, but to be avoided by vessels anchoring, trawling, etc. (e.g. remains of wreck, cleared platform). Foul ground with depth	† Foul † 22 ^{Foul}	422.8
31.2	# [#]	Area of foul ground	† Foul † [F o u l]	
f		Navigation light on stranded wreck	*	470.5

Obs	tructions and Aquad		Plane of Reference for Depths → H Underwater Installations → L	H Kelp, Seaweed → J	
40	Obstn	Obstn	Obstruction or danger to navigation the exact nature of which is not specified or has not been determined, depth unknown		422.9
41	4 ₆ Obstn	16 ₈ : Obstn	Obstruction, depth obtained by sounding but not wire drag		422.9
42	(4 ₆) Obstn	16 ₈ Obstn	Obstruction, depth swept by wire drag or confirmed by diver		422.9
43.1	Obstn #	777	Stumps of posts or piles, wholly submerged		422.9
43.2	#		Submerged pile, stake, snag or stump (with exact position)		422.9
44.1	HITTITITI	шш	Fishing stakes	† _ + +	447.1
44.2			Fish trap, fish weir, tunny nets	† ''	447.2
45	Fish traps	Tunny nets	Fish trap area, tunny nets area		447.3
46.1	20	*	Fish haven		447.5
46.2	× 2 ₄	(2 ₄)	Fish haven, with minimum depth		447.5
47		[©]	Shellfish beds		447.4
48.1	= =		Marine farm (on large-scale charts), area of marine farms		447.0
48.2	ЕØЭ	E	Marine farm (on small-scale charts)		447.6

Offshore Installations **L**

Con	mbined symbols → K (General)	Areas, Limits → N		(General
1	EKOFISK OILFIELD	Name of oilfield or gasfield			445.3
2	□ Z-44	Platform with designation/name	† *	†⊡	445.3
3	K	Limit of safety zone around offshore installation			439.2 445.6
4		Limit of development area			445.7
5.1	t t to	Wind turbine, floating wind turbine and wind turbine with vertical clearance			445.8
5.2		Offshore wind farm			445.0
5.2		Offshore wind farm (floating)			445.9
6	(3)	Wave farm, Renewable energy device			445.12
Мос	oring Buoys → Q		Pla	atforms and M	loorings
10		Production platform, Platform, Oil derrick	† *	ţ□	445.2
11	■ Fla	Flare stack (at sea)			445.2
12	□ SPM	Fixed Single Point Mooring, including Single Anchor Leg Mooring (SALM), Articulated Loading Column (ALC)			445.2 445.4
14	• Ru • Z-44 (ru)	Disused platform, with superstructure removed			445.2
16	<u> </u>	Floating Single Point Mooring, including Catenary Anchor Leg Mooring (CALM), Single Buoy Mooring (SBM)			445.4
17	•	Moored vessel associated with offshore production			445.5
18	a->	Mooring ground tackle for fixing floating structures		•	431.6
Plar	ne of Reference for Depths $ ightarrow$ H	Obstructions → K	Un	derwater Inst	allations
20	15 Well Well	Production well, with depth where known	The state of the s	od Well	445.1
21.1	○ Well	Suspended well (wellhead and pipes projecting from the seabed) over which the depth is unknown			445.1
	15 Well	Suspended well over which the depth			445.1
21.2	<u> </u>	is known			

L Offshore Installations

23	₽ ⊙F	Pipe (1/8)	Above-water wellhead (lit and unlit). The drying height or height above height datum is charted if known	445.1
24	Turbine	FI(2) ★ Underwater Turbine	Underwater turbine	445.10 445.11
25	*** c	DDAS	Subsurface Ocean (or oceanographic) Data Acquisition System (ODAS)	448.4

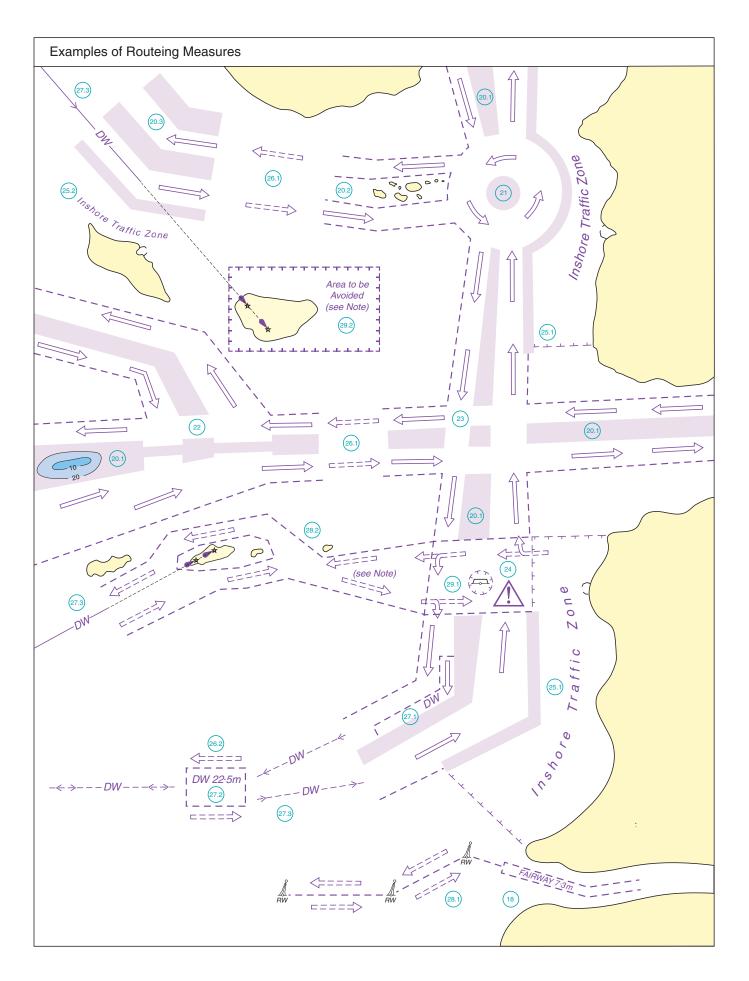
Sub	Submarine Cables					
Note:	Note: In complex areas, cables maybe shown in lighter print, to avoid obscuring other detail					
30.1	30.1 Submarine cable † ***********************************					
30.2	TTTT	Submarine cable area	Cable Area	439.3 443.3		
31.1	······································	Submarine power cable	†	443.2		
31.2	++++	Submarine power cable area	Power Cable Area	439.3 443.2		
32	··· ·· ·· ·· ·· ·· ·· ·· ·· ·· ·· ·· ··	Disused submarine cable		443.7		

Sub	Submarine Pipelines					
Note	In complex areas, cables maybe shown in lighte	r print, to avoid obscuring other detail		142.3		
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 † Pipeline † Area	439.3 444.3		
41.1	Water Sewer	Outfall and intake: unspecified, water, sewer, outfall, intake	†	444 444.2		
41.2	Water Sewer Outfall Intake	Outfall and intake area: unspecified, water, sewer, outfall, intake	† Pipeline † Pipeline † Area	439.3 444.3		
42.1	Buried 1-6m	Buried pipeline / pipe (with nominal depth to which buried)		444.5		
42.2	→ →)	Pipeline tunnel		1 444.5		
43	3_2 Obstn	Diffuser, crib (nature of obstruction may be stated)		444.8		
44	 	Disused pipeline / pipe		444.7		

Tracks, Routes **M**

Trac	cks Marked by Lights $ ightarrow$ P Le	eading Beacons → Q	Tra	icks
1	270-5° 2 Bns ≠ 270-5°	Leading line (≠ means "in line", the continuous line is the track to be followed)	# Bn Bn Bns in Line 270°30′ Ldg Bns 270·5° 270·5°	433.1 433.2 433.3
2	Island open of Headland 270-5° Headland 270-5°	Transit (other than leading line), Clearing line		433.4 433.5
3	090°-270°	Recommended track based on a system of fixed marks	† — > † — < > † — = = = = = = = = = = = = = = = = = =	434.1 434.2
4	<> <u>090°-270°</u>	Recommended track not based on a system of fixed marks	<dw<sup>270°<</dw<sup>	434.1 434.2
5.1	-**	One-way track and DW track based on a system of fixed marks	† — <	432.3
5.2	270°	One-way track and DW track not based on a system of fixed marks		434.1
6		Recommended track with maximum authorised draught ‡		432.4 434.3 434.4
			Routeing Measures - Basic Sym	bols
10		Established (mandatory) direction of traffic flow		435.1
11	==== >	Recommended direction of traffic flow #		435.5
12		Separation line (large-scale, small-scale)		435.1 436.3
13		Separation zone		435.1 436.3
14		Limit of restricted routeing measure (e.g. Inshore Traffic Zone, Area to be Avoided)		435.1 436.3 439.2
15		Limit of routeing measure		435.1 436.3
16	Precautionary Area	Precautionary area		435.2
17	ASL (See Note)	Archipelagic Sea Lane; axis line and limit beyond which vessels shall not navigate	† ASL (see Note)	435.10
18	FAIRWAY 7:3m	Fairway, designated by regulatory authority: with minimum depth	FAIRWAY 7-3m	434.5
‡ The t	FAIRWAY <7.3m> I FAIRWAY <7.3m> I FAIRWAY <7.3m> I FAIRWAY <7.3m> I FAIRWAY <7.3m> I FAIRWAY <7.3m> I FAIRWAY <7.3m> I FAIRWAY <7.3m> I FAIRWAY <7.3m> I FAIRWAY <7.3m> I FAIRWAY <7.3m> I FAIRWAY <7.3m> I FAIRWAY <7.3m> I FAIRWAY <7.3m> I FAIRWAY <7.3m> I FAIRWAY <7.3m> I FAIRWAY <7.3m> I FAIRWAY <7.3m> I FAIRWAY <7.3m> I FAIRWAY <7.3m> I FAIRWAY <7.3m> I FAIRWAY <7.3m> I FAIRWAY <7.3m> I FAIRWAY <7.3m> I FAIRWAY <7.3m> I FAIRWAY <7.3m> I FAIRWAY <7.3m> I FAIRWAY <7.3m> I FAIRWAY <7.3m> I FAIRWAY <7.3m> I FAIRWAY <7.3m> I FAIRWAY <7.3m> I FAIRWAY <7.3m> I FAIRWAY <7.3m> I FAIRWAY <7.3m> I FAIRWAY <7.3m> I FAIRWAY <7.3m> I FAIRWAY <7.3m> I FAIRWAY <7.3m> I FAIRWAY <7.3m> I FAIRWAY <7.3m> I FAIRWAY <7.3m> I FAIRWAY <7.3m> I FAIRWAY <7.3m> I FAIRWAY <7.3m> I FAIRWAY <7.3m> I FAIRWAY <7.3m> I FAIRWAY <7.3m> I FAIRWAY <7.3m> I FAIRWAY <7.3m> I FAIRWAY <7.3m> I FAIRWAY <7.3m> I FAIRWAY <7.3m> I FAIRWAY <7.3m> I FAIRWAY <7.3m> I FAIRWAY <7.3m> I FAIRWAY <7.3m> I FAIRWAY <7.3m> I FAIRWAY <7.3m> I FAIRWAY <7.3m> I FAIRWAY <7.3m> I FAIRWAY <7.3m> I FAIRWAY <7.3m> I FAIRWAY <7.3m> I FAIRWAY <7.3m> I FAIRWAY <7.3m> I FAIRWAY <7.3m> I FAIRWAY <7.3m> I FAIRWAY <7.3m> I FAIRWAY <7.3m> I FAIRWAY <7.3m> I FAIRWAY <7.3m> I FAIRWAY <7.3m> I FAIRWAY <7.3m> I FAIRWAY <7.3m> I FAIRWAY <7.3m> I FAIRWAY <7.3m> I FAIRWAY <7.3m> I FAIRWAY <7.3m> I FAIRWAY <7.3m> I FAIRWAY <7.3m> I FAIRWAY <7.3m> I FAIRWAY <7.3m> I FAIRWAY <7.3m> I FAIRWAY <7.3m> I FAIRWAY <7.3m> I FAIRWAY <7.3m> I FAIRWAY <7.3m> I FAIRWAY <7.3m> I FAIRWAY <7.3m> I FAIRWAY <7.3m> I FAIRWAY <7.3m> I FAIRWAY <7.3m> I FAIRWAY <7.3m> I FAIRWAY <7.3m> I FAIRWAY <7.3m> I FAIRWAY <7.3m> I FAIRWAY <7.3m> I FAIRWAY <7.3m> I FAIRWAY <7.3m> I FAIRWAY <7.3m> I FAIRWAY <7.3m> I FAIRWAY <7.3m> I FAIRWAY <7.3m> I FAIRWAY <7.3m> I FAIRWAY <7.3m> I FAIRWAY <7.3m> I FAIRWAY <7.3m> I FAIRWAY <7.3m> I FAIRWAY <7.3m> I FAIRWAY <7.3m> I FAIRWAY <7.3m> I FAIRWAY <7.3m> I FAIRWAY <7.3m> I FAIRWAY <7.3m> I FAIRWAY <7.3m> I FAIRWAY <7.3m> I FAIRWAY <7.3m> I FAIRWAY <7.3m> I FAIRWAY <7.3m> I FAIRW	with maximum authorised draught I routeing measures does not imply recommentation by precedent.	# FAIRWAY <7·3m> modation by the UK Hydrographic Office.	

M Tracks, Routes



	Examples of Routeing Measures (see diagra	am on page 34)
20.1	Traffic separation scheme (TSS), traffic separated by separation zone	435.
20.2	Traffic separation scheme, traffic separated by natural obstructions	435.
20.3	Traffic separation scheme, with outer separation zone, separating traffic using scheme from traffic not using it	435.
21	Traffic separation scheme, roundabout	435
22	Traffic separation scheme with "crossing gates"	435
23	Traffic separation schemes crossing, without designated precautionary area	435
24	Precautionary area	435
25.1	Inshore traffic zone (ITZ), with defined end limits	435
25.2	Inshore traffic zone, without defined end limits	435
‡ 26.1	Recommended direction of traffic flow, between traffic separation schemes	435
‡ 26.2	Recommended direction of traffic flow, for ships not needing a deep water route	435
27.1	Deep water route (DW), as part of one-way traffic lane	435
27.2	Two-way deep water route, with minimum depth stated	435
27.3	Deep water route, centre line shown as recommended one-way or two-way track	435
‡ (28.1)	Recommended route (often marked by centre line buoys)	435
28.2	Two-way route with one-way sections	435
29.1	Area to be avoided (ATBA), around aid to navigation	435
29.2	Area to be avoided, because of danger of stranding	435
	n 'recommended' in connection with tracks and routeing measures does not imply recommendation by the UK Hydrographic Ofi ally by a regulatory authority, but may be established by precedent.	fice.

			Radar Surveillance Syste	em
30	O Radar Surveillance Station	Radar surveillance station		487 487.3
31	_{Ra} Cuxha _{len}	Radar range		487.1
32.1	Ra	Radar reference line		487.2
32.2	Ra090° - 270°	Radar reference line coinciding with a leading line		

					Radio Repor	ting
40.1	A	▼B √7 _{VHF 80}	Radio calling-in point, way point, or reporting point (with designation, if any) showing direction(s) of vessel movement and VHF-channel	†	(7) B	488.1
40.2	\$		Radio reporting line (with designation, if any) showing direction(s) of vessel movement	† — \$	†	488.2

			Fer	rries
50	O	Ferry Route	† Ferry † Ferry	438.1
51	Cable Ferry	Cable Ferry Route		438.2

N Areas, Limits

General Dredged and Swept Areas → I Submarine Cables, Submarine Pipelines → L Tracks Routes → M						
Note:	On multicoloured charts, symbols in section N ma	ly be in green when associated with environm	ental areas			
1.1	(for emphasis)	Maritime limit in general, usually implying permanent physical obstructions		439.1		
1.2	(for emphasis)	Maritime limit in general, usually implying no permanent physical obstructions		439.6		
2.1		Limit of restricted area		439.2- 439.4		
2.2		Limit of area into which entry is prohibited	F T T T T T T T T T T T T T T T T T T	439.6 441.6		

Anch	orages, Anchorage Areas			
10	ţ	Reported anchorage (no defined limits)	r †	431.1
11.1		Anchor berths	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	431.2
11.2	$\left(\begin{pmatrix} \hat{A} \end{pmatrix} \right) \left(\begin{pmatrix} \hat{A} \end{pmatrix} \right) \left(\begin{pmatrix} \hat{A} \end{pmatrix} \right)$	Anchor berths with swinging circle	(N53)	401.2
12.1		Anchorage area in general. On smaller scale charts, the limits may be omitted		
12.2	No 1 Û	Numbered anchorage area	† (1) † (1)	
12.3	Oaze Ĵ	Named anchorage area		
12.4	DW Û	Deep water anchorage area, anchorage area for deep-draught vessels		431.3
12.5	Tanker Ĵ	Tanker anchorage area		439.4
12.6	24h Ů	Anchorage area for periods up to 24 hours		
12.7	, , , , , , , , , , , , , , , , , , ,	Dangerous cargo anchorage area		
12.8		Quarantine anchorage area		
12.9	Reserved (see Note)	Reserved anchorage area		
Note:	These symbols maybe adapted for other purpose	es or types of vessels by addition of legend o	r symbol	
13		Seaplane operating area	x - x - x - x - x - x x - 1	449.6
14	\$	Anchorage for seaplanes	<u></u>	449.6
			†	

Areas, Limits $\,$ $\,$ $\,$ $\,$ $\,$ $\,$ $\,$ $\,$ $\,$

			Restricted A	reas
20		Anchoring prohibited	Anchoring	431.4 435.11 436.3 439.3 439.4
21.1		Fishing prohibited		439.3
21.2		Diving prohibited		439.4
	Examples	Environmentally Sensitive Sea Areas: (colour may be green or magenta) Limit of marine reserve, national park, non-specific nature reserve		
22	Examples	Bird sanctuary, Seal sanctuary (other animal silhouettes may be used for specialized areas)	Marine Nature Reserve † (see Note)	437.3 437.6 437.7
	PSSA PSSA PSSA PSSA PSSA PSSA PSSA PSSA	Particularly Sensitive Sea Area (coloured tint band may vary in width between 1 and 5mm)	#	
23.1	F Explosives Dumping F H H	Explosives dumping ground, Individual mine or explosive	Explosives Dumping Ground	442.1 442.2
23.2		Explosives dumping ground (disused)	Explosives Dumping Ground (disused)	442.3 442.4
24	FTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT	Dumping ground for chemical waste		442.1 442.2 442.3
25	FTTTT VVVVVVV TTTTT H Degaussing Range H	Degaussing range	† D.G. Range DG Range	448.1 448.2
27	5kn	Maximum speed, Speed limit		430.2
а		Seabed operations dangerous/prohibited	F	

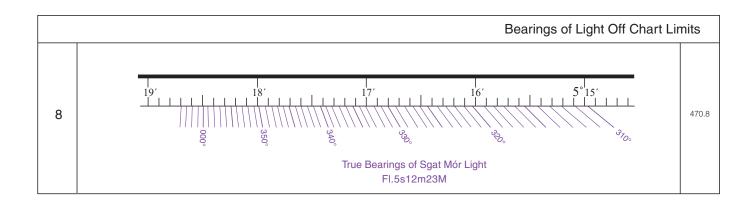
	Military Practice Areas				
30	r % %	Firing practice area		441.1 441.2 441.3	
31		Military restricted area into which entry is prohibited	Entry Prohibited	441.6	
32	r Q Q G- I	Mine-laying (and counter-measure) practice area		441.4	
33	SUBMARINE EXERCISE AREA	Submarine transit lane and exercise area		441.5	
34	ГТТТТТТТТТТТТТТТТТТ - - Minefield -	Minefield	FTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT	441.8	

N Areas, Limits

International Boundaries and National Limits						
40	DANMARK ++++++++++++++++++++++++++++++++++++	International boundary on land	†	440.1		
41	UNITED KINGDOM -+-+-+-+-+-+-+ NORGE	International maritime boundary	UNITED KINGDOM	440.3		
42	Total	Straight territorial sea baseline with base point		440.4		
43	++	Seaward limit of Territorial Sea	#	440.5		
44	+	Seaward limit of Contiguous Zone		440.6		
45	— x3 — — — x3 — x3 — — x3 — — x3 — — x3	National fishery limits		440.7		
46	Continental Shelf	Limit of Continental Shelf		440.8		
47	EEZ	Limit of Exclusive Economic Zone	++	440.9		
48		Customs limit		440.2		
49	Harbour Limit	Harbour limit	† Harbour Limit	430.1		

Various Limits						
60.1	(2018) !************************************	# Jarlah	Limit of fast ice, Ice front (with date)	Sally Ally S	440.4	
60.2	(2018) mmmmmm	# July	Limit of sea ice (pack ice) seasonal (with date)	†	449.1	
62.1	Spoil Ground		Spoil ground		446.1	
62.2	Spoil Ground (disused)		Spoil ground (disused)		446.2	
63	Extraction Area		Extraction (dredging) area	Dredging Area	446.4	
64	r — — — — — — — — — — — — — — — — — — —		Cargo transhipment area		449.4	
65	Incineration Area		Incineration area	Area for burning refuse material	449.3	

Beacons → Q Light Structures					
1.1	* *	Lt LtHo	Position of navigation light (size and style of 'star' may vary), light, lighthouse	<i>!</i>	
1.2	*	£.	Light on standard charts		470.4 470.5
1.3	(3	*	Significant all-round light on multicoloured charts (generally for offshore navigation)		
On standard charts, positions of light are highlighted by one magenta flare. Note: On multicoloured charts, the flare indicates the colour of the light, except for multicoloured sector lights where a magenta flare may be used if the sectors are not charted. This guide shows standard magenta flares with examples of multicoloured depiction where significantly different.					
2.1	[Lighted offshore platform		445.2
2.2	·	•	Lighted offshore platform on multicoloured charts		
3	Ď BÝ	★ BnTr	Lighted beacon tower ‡	† Bn Tower † Bn To Tr	456.4 457.1 457.2
4	R	★ Bn	Lighted beacon ‡ On smaller scale charts, where navigation within recognition range of the daymark is unlikely, lighted beacons are charted solely as lights	R BRB G R	457.1 457.2
5	Å R	★ Bn	Lighted buoyant beacon, resilient beacon ‡		459.1 459.2
7	1 1	<u> </u>	Navigation lights on landmarks or other structures (examples)		470.5
‡ Mir	nor lights, fixed and floati	ng, usually conform to IA	LA Maritime Buoyage System characteristics	1	1



P Lights

Ligh	t Characters		Light Chara	acters on Light Buoys → Q	471.2	
	Abbro International	eviation National	Class of Light	Illustration	Period shown	
10.1	F		Fixed			
10.2	Occulting (total dura	ation of light longer than	total duration of darkness)			
	Ос	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 o	of light and darkness ed	qual)			
	Iso		Isophase			
10.4	Flashing (total durat	ion of light shorter than	total duration of darkness)			
	FI		Single-flashing	A A	A A	
	FI(3) Example	GpFI(3) Example	Group-flashing	A A A	A A A	
	FI(2+1) Example	GpFl(2+1) Example	Composite group-flashing	A A	▲ ▲	
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	QkFl(3) Example	Group quick	A A A	A A A	
	IQ †	IntQkFI	Interrupted quick		11111	
10.7	Very quick (repetition	n rate of 80 to 159 - usu	ally either 100 or 120 - flashes per minute)	-		
	VQ	VQkFI †	Continuous very quick			
	VQ(3) Example	VQkFI(3) Example	Group very quick	111 111	111	
	IVQ †	IntVQkFI	Interrupted very quick			
10.8	Ultra quick (repetitio	n 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	W R W	R W R	

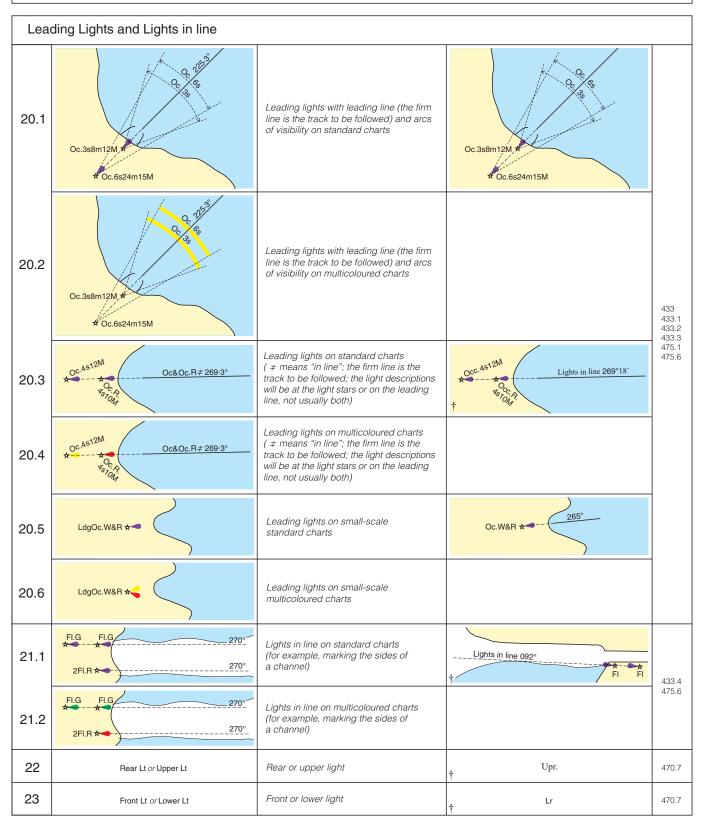
Lights **P**

			Colours of L	ignis
11.1	W	White (only on sector and alternating lights)		450. 450. 470.
11.2	R	Red		470. 471.
11.3	G	Green		471. 475.
11.4	Bu	Blue	† BI	
11.5	Vi	Violet		
11.6	Υ	Yellow		1
11.7	Y # Or	Orange	† Or	
11.8	Y # Am	Amber		7
		Colours of lights shown on: standard charts on multicoloured charts on multicoloured charts at sector lights		
			P	eriod
12	90s 2·5s Examples	Period in seconds and tenths of a second	† 90sec	471
Plane o	of Reference for Heights → H	Tidal Levels → H	Elev	ation
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
			is given in feet e.g. 40ft	
	Example		is given in feet e.g. 40ft	
	Example arted ranges are nominal ranges given in	sea miles	is given in feet e.g. 40ft	471 471
Note: Cha	Example Parted ranges are nominal ranges given in 15M Example 15/10M	sea miles Light with single range	is given in feet e.g. 40ft	471.
Note: Cha	Example Parted ranges are nominal ranges given in 15M Example 15/10M Example 15-7M	sea miles Light with single range Light with two different ranges	is given in feet e.g. 40ft R 15,10M	471 471 475
Note: Cha	Example Parted ranges are nominal ranges given in 15M Example 15/10M Example 15-7M	sea miles Light with single range Light with two different ranges	is given in feet e.g. 40ft R † 15,10M † 15,10,7M	471 471 475
Note: Cha	Example Parted ranges are nominal ranges given in 15M Example 15/10M Example 15-7M Example	sea miles Light with single range Light with two different ranges Light with three or more ranges	is given in feet e.g. 40ft R † 15,10M † 15,10,7M Dispos	471. 471. 475.
Note: Cha	Example arted ranges are nominal ranges given in 15M Example 15/10M Example 15-7M Example (hor)	sea miles Light with single range Light with two different ranges Light with three or more ranges horizontally disposed	is given in feet e.g. 40ft R † 15,10M † 15,10,7M Dispos	471. 471. 475.

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

P Lights

Lights marking Fairways Note: Quoted bearings are always from seaward



Lights **P**

			Direction L	ights
30.1	★ Dir 269° Fl(2)5s10m11M	Direction light with narrow sector and course to be followed, flanked by darkness or unintensified light	DirLt	
30.2	Oc.12s6M Dir 255.5° Pir 255.5°	Direction light with course to be followed. Sector(s) uncharted	DirLt	
30.3	ALWG FW.4s DirWRG. ALWR 15-5M	Direction light with narrow fairway sector flanked by light sectors of different characters on standard charts		471.3 471.9 475 475.1 475.5 475.7
30.4	A.WG FW.4s DirWRG. 15-5M	Direction light with narrow fairway sector flanked by light sectors of different characters on multicoloured charts		
31	Dir286°	Moiré effect light (day and night), variable arrow mark. Arrows show when course alteration needed		475.8

			Sector Liç	ghts
40.1	FI.WRG.4s21m 18-12M	Sector light on standard charts		
40.2	© ₹ FI.WRG.4s21m	Sector light on multicoloured charts		470.4 475 475.1 475.2 475.5
40.3	FI.WRG.4s 21m18-12M *	Sector light on standard charts. Sectors not charted		
40.4	FI.WRG.4s 21m18-12M *	Sector light on multicoloured charts. Sectors not charted		

P Lights

Sec	tor Lights			
41.1	Oc. W Oc. W Oc. G	Sector lights on standard charts, the white sector limits marking the sides of the fairway		470.4 475
41.2	Oc.WRG. 10-6M Oc.R Oc.W Oc. G	Sector lights on multicoloured charts, the white sector limits marking the sides of the fairway		475.1 475.5
42.1	FI(3)10s62m25M F.R.55m12M	Main light visible all-round with red subsidiary light seen over danger on standard charts		471.8
42.2	FI(3)10s62m25M FR.55m12M	Main light visible all-round with red subsidiary light seen over danger on multicoloured charts		475.4
43.1	FI.5s41m30M	All-round light with obscured sector on standard charts	FI.5s41m30M	475.0
43.2	Obs. Sol. 55.41m30M	All-round light with obscured sector on multicoloured charts		475.3
44.1	Iso.WRG	Light with arc of visibility deliberately restricted on standard charts		475.1
44.2	Iso.WRG	Light with arc of visibility deliberately restricted on multicoloured charts		4/0.1

Lights **P**

			Sector Li	ghts
45.1	Q.14m5M	Light with faint sector on standard charts		475.3
45.2	Q.14m5M	Light with faint sector on multicoloured charts		470.0
46.1	Coc.R.8s R.9M R.9M R.Intens	Light with intensified sector on standard charts		475.0
46.2	CC.R.8s R.9M R.9M R.Intens R.Intens	Light with intensified sector on multicoloured charts		475.2
а		Light with unintensified sector	€Oc.R.8s P	

P Lights

Ligh	nts with limited Times of Exhibition			
50.1	F.R(occas)	Lights exhibited only when specially needed (e.g. for fishing vessels, ferries) and some private lights on standard charts	† (fishg.) † (Priv.) † (occasl.)	473.2
50.2	F.R(occas)	Lights exhibited only when specially needed (e.g. for fishing vessels, ferries) and some private lights on multicoloured charts		470.2
51.1	FI.10s40m27M (F.37m11M Day)	Daytime light (charted only where the character shown by day differs from that shown at night) on standard charts	FI.10s40m27M ** (F.37m11M by Day)	473.4
51.2	✓ FI.10s40m27M ★ (F.37m11M Day)	Daytime light (charted only where the character shown by day differs from that shown at night) on multicoloured charts		470.4
52.1	Q.WRG.5m10-3M (Fl.5s Fog)	Fog light (exhibited only in fog, or character changes in fog) on standard charts	Q.WRG.5m10-3M FI.5s (in Fog)	473.5
52.2	Q.WRG.5m10-3M (Fl.5s Fog)	Fog light (exhibited only in fog, or character changes in fog) on multicoloured charts	†	
53	† Fl.5s(U)	Unwatched (unmanned) light with no standby or emergency arrangements		473.1
54	(temp)	Temporary	†(tempy.)	473.6
55	(exting)	Extinguished	† (extingd.)	473.7
56	(man)	Manually activated		473.8

Lights **P**

Flar	e Stack (at S	ea) → L	Flare Sta	ck (on Land) $ ightarrow$ E $ ightarrow$ Signal Stati	$ions ightarrow extsf{T}$ Spec	ial Lights
60	₽ A	AeroAl.Fl.WG.7-5s11	М	Aeronautical 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 (e.g. on radio mast)	(Red Lt.)	4/0.2
62		Fog Det Lt		Fog detector light		477
63	< 	₩	(illum)	Floodlit, floodlighting of a structure	† (lit)	
64		F.R of	lso Z	Strip light		478.5
Note:	On multicolour	red charts, P63 ai	nd P64 may be ii	n any appropriate colour		
65	#	(priv)		Private light other than one exhibited occasionally	# • Y.Lt † (Priv)	473.2
66		(sync) or (sync)		Synchronized (synchronous or sequential)		478.3

Q Buoys, Beacons

Buoys and Beacons

IALA Maritime Buoyage System, which includes Beacons ightarrow Q 130

Gei	neral									
1	-0-	Position of buoy or beacon						455.3 460.1 462.1		
Note: On standard charts, lights on buoys and beacons are highlighted by magenta flares. On multicoloured charts, the flare indicates the colour of the light This guide shows standard magenta flares, with a few examples of coloured flares.										
Col	our of Buoys and Beacons		AŁ	brev	riations for	colours (lights) $ ightarrow$	P 11		
2		Single colour; green (G) and black (B)	†		B		₩ G			
3		Single colour other than green and black: red (R), yellow (Y), orange (Or)	†		2721. R	### Y	Or	450		
4	BY GRG BAB	Multiple colours in horizontal bands: the colour sequence is from top to bottom	†	<i>⊟</i> BW	Æ RW	₽ BR	A BW	450.1 450.2 450.3 464 464.1		
5	A A A PW	Multiple colours in vertical or diagonal stripes; the darker colour is given first. In these examples, red(R), white(W), blue (Bu), yellow (Y) & black(B)	†	<i>I</i> ⊠ RW	A BR	∆ n BW	A BW	464.2 464.3		
а		Single colour other than green and black (non-IALA system: white (W) grey (Gy),	†		₩ W	⊈ Gy	厚 Bu	464		
a		blue (Bu))			∬ (non-IALA) ₩	∰ (non-IALA Gy) Å (non-IALA) Bu	404		
b		Wreck buoy (not used in the IALA System)	†	G G	A G	G G	A G			
С		Chequered	†	BR	₽ BW	Ø RW	A BW			

Lighted Marks with Fog Signals → F								
7	FI.G		Fl.R	Lighted marks on standard charts (examples)	† £ \$ 5 \$ \$ f	457.1 466		
8	FI.R	⚠ Iso RW	FI.G	Lighted marks on multicoloured charts (examples)		466.1		

Тор	Topmarks and Radar Reflectors					rs	For	For Application of Topmarks within the IALA System $ ightarrow Q$ 130 Radar reflector $ ightarrow S$				
9	IALA System buoy topmarks (beacon topmarks shown upright)						Non-IALA Sys	rtem	f fetc.	463 463.1		
10	y Name ■ 2							Beacon with topmark, colour, radar reflector and designation (example)		پىر 1 No.2 R	Ra.Refl	450 455.2 455.7 455.8
11	Name 3							Buoy with topmark, colour, radar reflector and designation (example). Radar reflectors are not generally charted on IALA System buoys	3' G	No.3	Ra.Refl	460.3 460.6 465.1 465.2

Buoys, Beacons **Q**

Features Common to Beacons and Buoys $\,\,\rightarrow\,$ Q 1-11

Buoys

Sha	pes							
20	A		A	Conical buoy, nun buoy, ogival buoy	 †	A	A etc.	462.2
21	ß			Can buoy, cylindrical buoy	<i>□</i> I	<i>III</i> 1	💻 etc.	462.3
22	۵		Φ	Spherical buoy	Ç.	S	etc.	462.4
23	A	4	1	Pillar buoy, buoy with no distinctive shape	† A		Å	462.5
24		Į		Spar buoy, spindle buoy	† A 4	1 1	3 A	462.6
25	<i>₽</i>		•	Barrel buoy, tun buoy				462.7
26		\Box		Superbuoy. Superbuoys are very large buoys, e.g. an aid to navigation mounted on a circular hull of about 5m diameter. Mooring for tankers, of superbuoy size, is a variation of the superbuoy symbol (L16)	†	⇔		445.4 460.4 462.9 474

	Light Vessels and Minor Light Floa										
30.1	A FI.G.3s G Name	Light float (example) on standard charts		- 462.8							
30.2	FI.G.3s Name	Light float (example) on multicoloured charts		102.0							
31		Light float not part of IALA System	† \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	462.8							
32.1	FI.5s12m15m	Light vessel on standard charts	† <u>*</u> Liv *	474							
32.2	بال Fl.5s12m15m	Light vessel on multicoloured charts									

Q Buoys, Beacons

Mod	oring Buoys Oil or	Gas Installation Buoy → L	Visitors' (Small Craft) Mooring →	U
40	♣ #♣ #₽ # ♣	Mooring buoy	## # \$ # # † †	431.5
41.1	FI.Y.2·5s	Lighted mooring buoy (example) on standard charts		431.5 466.1 466.2
41.2	♣ Fl.Y.2·5s	Lighted mooring buoy (example) on multicoloured charts		466.3 466.4
42		Trot, mooring buoys with ground tackle and berth numbers		431.6
43		Mooring buoy with telephonic communications		431.5
44	Small Craft Moorings	Numerous moorings (example)		431.7
45	ø	Visitors' mooring		431.5

Spe	cial Purpose Buoys	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 'X' topmark is optional. Purpose o buoy may be shown by textual label.		
50	Å DZ	Firing danger area (Danger Zone) buoy		441.2
54	ද්∂ DG	Degaussing Range buoy		448.2
58	ದಾ ODAS ಧ ODAS	Ocean (or Oceanographic) Data Acquisition System (ODAS) buoy, Data collection buoy) CDAS	448.3 460.4 462.9
70	Ç (priv)	Buoy privately maintained (example)		
71	ស្ពឺ (Apr-Oct)	Seasonal buoy (the example shows a yellow spherical buoy on station between April and October)	# \$\bigcup_{\text{V}}^{\text{E}}\left(1.4 - 15.10\right) \text{\text{\text{V}}}{\text{V}}\left(\text{occas}\right)	460.5
d		Racing mark	# \$	

Buoys, Beacons **Q**

Lighted Beacons → P Features Common to Beacons and Buoys → Q 1-11 Beacon
--

								Gen	eral
80	J.	0	Bn	Beacon in general, characteristics unknown or chart scale too small to show	#		1		455.5
81		. L BW		Beacon with colour, no distinctive topmark (example)					450.2 455.4 459.2
82		BY E	L BRB	Beacon with colour and topmark (examples)	ŷ W	↑ ⊗ B	† R	etc.	455.4 456 459.2 463 463.1
83		⊬° BRB		Beacon on submerged rock (topmark and colours as appropriate)	#		BRB		455.6
е				Beacon which does not conform with the IALA system			∬ (non-IALA) W		

Min	Minor Pile → F Minor Impermanent Marks usually in Drying Are (Lateral Mark for Minor Channel)						
90	1		Pole	†	456.1		
	PORT HAND	STARBOARD HAND					
91	Y	1	Perch, withy	†	456.1		
92	‡ †	÷	Withy		450.1		

Landmarks → E Minor Marks, usually on Land								
100	&		Cairn	∘ Ca	airn	456.2		
101	□ Mk		Coloured or white mark (the colour may be indicated)			456.2		
102.1	Î RW	Û	Coloured topmark (colour known or unknown) with function of a beacon	₽ R	† G			
102.2	IIII		Painted boards with function of leading beacons					

Q Buoys, Beacons

Bea	Beacon Towers											
110	ДR	G	Д R	Ğ	Å D BY	BRB	Beacon towers without and with topmarks and colours (examples)	† & <mark>Bn</mark> Tower	† Å Bn <i>etc.</i>	456.4		
111	₽					Lattice beacon			456.4			

Spe	Special Purpose Beacons Leading Lines, Clearing Lines → M										
Note	Note: Topmarks and colours are shown where scale permits										
120	JJ	270°_	Leading beacons (the firm line is the track to be followed)	Bn Bn Ldg Bns 270°	458						
121	.BB	270°_	Beacons marking a clearing line or transit	Bn Bn Bns in line 270° †	458						
122		d Distance -> 52m 268·5°	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		Refuge beacon		456.4						
126	c	7	Notice board	NB	456.2						

Q

130 IALA Maritime Buoyage System

IALA International Association of Marine Aids to Navigation and Lighthouse Authorities

NP735

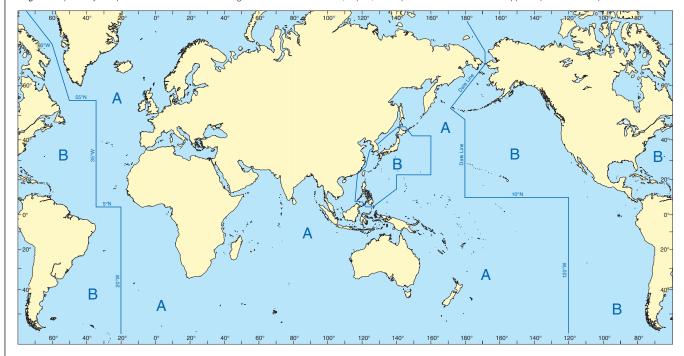
Where in force, the IALA System applies to all fixed and floating marks except landfall lights, leading lights and marks, sectored lights and major floating lights.

The standard buoy shapes are cylindrical (can) \triangleright , conical \lozenge , spherical \lozenge , not spar \checkmark , but variations may occur, for example: minor light floats line the illustrations on the next page, 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.

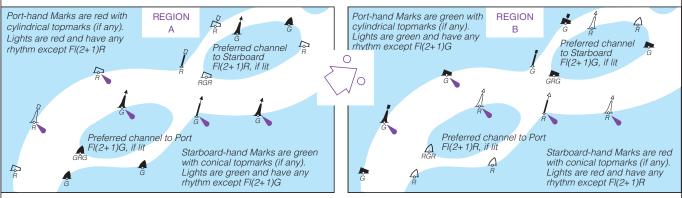
IALA Buoyage Regions A and B

There are two international buoyage regions where lateral marks differ.

Region A is primarily comprised of the waters surrounding Greenland, Europe, Africa, Australia and Asia (except for Japan, the Republic of Korea and the Philippines). Region B is primarily comprised of the waters surrounding North and South America, Japan, the Republic of Korea and the Philippines (see illustration).



130.1 Lateral marks are generally for well-defined channels. There are two international Buoyage Regions - A and B - where Lateral marks differ.



Buoy shape may be cylindrical or coinical (to indicate port or starboard) but may be another shape with appropriate topmark. Marks which indicate the preferred channel at a junction have three horizontal colour bands and, if lit, the rhythm will be FI(2+1)

130.2

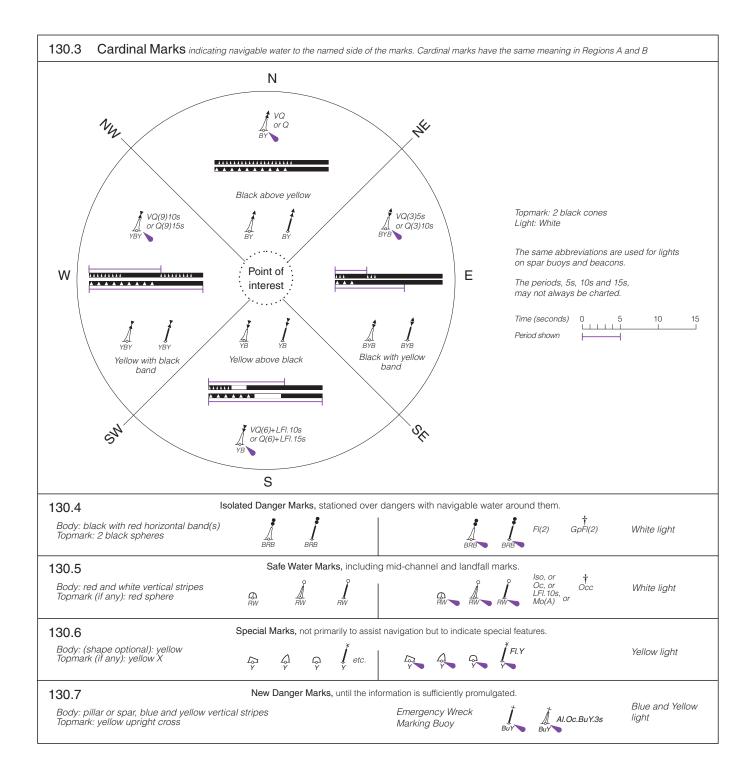


Symbol showing direction of buoyage where not obvious.



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

Q Buoys, Beacons



Fog Signals R

Fog	Fog Detector Light \rightarrow P		Fog Ligh	$Light \rightarrow P$		
1	(//°	urd		Position of fog signal. Type of fog signal not stated	† Fog Sig	451 451.2 452.8
2		(man)		Manually activated		452.9

	Types of Fog Signals, Abbreviation										
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 Descripti	ons	
20	FI.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	‡	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)+LFI.15s Hom(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) is usually omitted when associated with another aid to navigation (e.g. light or buoy) when a description of the signal is given

S Radar, Radio, Satellite Navigation Systems

Rad	lar Radar Structures Forming Lan	Radar Structures Forming Landmarks → E Radar Surveillance Systems → M				
1	© Ra	Coast radar station providing range and bearing from station on request		485.1		
2	© Ramark	Ramark, radar beacon transmitting continuously		486.1		
3.1	Racon(Z) (3cm)	Radar transponder beacon, with morse identification, responding within the 3cm (X) band	† Racon(Z)			
3.2	© Racon(Z) (10cm)	Radar transponder beacon, with morse identification, responding within the 10cm (S) band		486.2 486.3		
3.3	© Racon(Z)	Radar transponder beacon, with morse identification	© Racon(Z) (3 & 10cm)			
3.4	O Flacon(P)	Radar transponder beacon with sector of obscured reception		486.4		
3.4	Racon(Z)	Radar transponder beacon with sector of reception		400.4		
3.5	Racon Racons # 270°	Leading radar transponder beacons (‡ and ‡ mean "in line")		486.5		
0.5	Racon Racons # 270°	Leading radar transponder beacons coincident with leading lights		433.3		
3.6	Racon Racon	Radar transponder beacons on floating marks (examples)		486.2		
4	<i>34</i> 4	Radar reflector (not usually charted on IALA System buoys and buoyant beacons)	Ra.Refl.	455.8 459.2 465		
5	<i>34</i> c	Radar conspicuous feature	Ra conspic	485.2		

Radar, Radio, Satellite Navigation Systems

F	adio	Structures Forming Landmarks -	→ E Radio Reporting (Cali	ling-in or Way) Points → M	Radio
10	†	Name RC	Non-directional marine or aeromarine radiobeacon		480 481.1 480.1
11	†	©	Directional radiobeacon with bearing line	Dir.Ro.Bn	480
	†	RD	Directional radiobeacon coincident with leading lights (‡ means "in line")		481.2
12	†	© RW	Rotating pattern radiobeacon		480 481.1
13	†	© Consol	Consol beacon		480
14		© RG	Radio direction-finding station	† Ro.D.F	483
15	†	© R	Coast radio station providing QTG service	T Ro.	480 484
16	†	Aero RC	Aeronautical radiobeacon		480 482
17.1		(o) AIS	Automatic Identification System transmitter		489.1
17.2		AIS AIS	Automatic Identification System transmitters on floating marks (examples)		489.1
18.1		⊙ V-AIS	Virtual AIS aid to navigation with no known IALA-defined function. Other carriers may be used		
18.2		V-AIS V-AIS	Virtual AIS aid to navigation with IALA cardinal mark function		
		V-AIS			
18.3		V-AIS 💩 V-AIS	Virtual AIS aid to navigation with IALA lateral mark function		489.2
18.4		V-AIS	Virtual AIS aid to navigation with IALA isolated danger mark function		
18.5		8 V-AIS	Virtual AIS aid to navigation with IALA safe water mark function		
18.6		(§) V-AIS	Virtual AIS aid to navigation with IALA special mark function		
18.7		† V-AIS	Virtual AIS aid to navigation with IALA new danger mark function		

	Satellite Navigation System							
50	WGS	WGS72	WGS84	World Geodetic System, 1972 or 1984		201		
1	,			ude and longitude, to one, two or three decim rived positions (which are referred to WGS84)	ral places of a minute, depending on the scale to relate them to the chart.	202		
51	#	DGPS		Station providing Differential Global Positioning System corrections		481.4		

T Services

Pilo	age				
1.1	lacktriangle	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
1.3	Note	Pilot boarding place, position of pilot cruising vessel, with note (e.g. Tanker, Disembarkation)			
1.4	⊕ <i>H</i>	Pilots transferred by helicopter			
2	■ Pilot lookout	Pilot office with Pilot lookout, Pilot lookout station			
3	■ Pilots	Pilot office			491.3
4	Port Name (Pilots)	Port with pilotage service (boarding place not shown)			491.4

Coa	astguard, Rescue									
10	■ CG	⊙CG	₽cg	Coastguard station	■ CGFS	492 492.1 492.2				
11	■cg+ ocg+ fcg+		₽cg♦	Coastguard station with Rescue station	■ CGFS ♦	493.3				
12		+		Rescue station, Lifeboat station, Rocket station	LB †	493 493.1				
13	A. + +		+	Lifeboat lying at a mooring		493.2				
14	Re	f	Ref	Refuge for mariners, Refuge for vessels		431.3 456.4 493.4				

Services T

				St	ations
20	∘ss	Signal station in general	† Sig Sta	† Sig Stn	494
21	oss(INT)	Signal station showing International Port Traffic Signals			495.4
22	○SS(Traffic)	Traffic signal station, Port entry and departure signals			495.1
23	○ SS(Port Control)	Port control signal station			495.1
24	○ SS(Lock)	Lock signal station			495.2
25.1	⊙ SS(Bridge)	Bridge passage signal station			495.3
25.2	F * Traffic Sig	Bridge lights including traffic signals			
28	⊙SS(Storm)	Storm signal station	† Storm Sig	† Stm. Sig. Stn.	497.1
29	⊙SS(Weather)	Weather signal station, Wind signal station			497.1
30	⊙SS(Ice)	Ice signal station			497.1
31	⊙ SS(Time)	Time signal station			494.1
32.1	<u>\$</u>	Tide scale or gauge	⊙Tide gauge		496.1
32.2	⊙Tide gauge	Automatically recording tide gauge			430.1
33	⊙SS(Tide)	Tide signal station			496.2
34	⊙SS(Stream)	Tidal stream signal station			496.3
35	⊙SS(Danger)	Danger signal station			497.2
36	⊙ SS(Firing)	Firing practice signal station			497.2

U Small Craft (Leisure) Facilities

Sma	Small Craft (Leisure) Facilities Transport Features, Bridges → D Public Buildings, Cranes → F Pilots, Coastguard, Rescue, Signal Stations → T							
а		Visitors' mooring	†					
b		Public slipway	†					
С		Public landing, Steps, Ladder	÷					
d		Public house, Inn	†					
е		Restaurant	† ×					
f		Water tap	÷					
g		Fuel station (Petrol, Diesel)	†					
h		Electricity	† <i>‡</i>					

Small Craft (Leisure) Facilities **U**

i	La	Laundrette †				
j	Pu	ublic toilets	wc †			
k	Po	ost box	†			
-	Pu	ublic telephone	†			
m	Re	efuse bin	†			
n	Pu	ublic car park	†			
0	Pa	arking for boats and trailers	<u>+</u>			
р	Ca	aravan site	† 			
q	Ca	amping site	† ×			
_	i	MARINA FACILITIES				
r	HARBOUR / MARINA FACILITIES DE RESERVE		11, 12, 144 (0) 1326 312285 211352			
	TALINOUTT Tamount violate tacht haven		12 +44 (0) 1326 312285 211352			
	- Mylor Yacht Harbour		80/M +44 (0) 1326 372121 372120			
	† HELFORD - Helford Moorings Officer		+44 (0) 1326 250749 -			
	Marina Facilities are no longer inserted on ADMIRALTY cha information. Contact details are given on some ADMIRALTY		ina, or visit their website, for the latest			

V Data Quality Indicators - Supplementary National Guidance

Following a large chart user survey, it became apparent that some mariners are insufficiently aware of the importance of data quality indicators on charts. This section of NP5011 aims to provide more detail and clarification of the implications of data quality indicators on paper charts. Mariners should not assume that the information shown on a modern chart, especially depth, is absolutely accurate or precisely positioned. In general, this will largely depend on the age of the source data, how it was obtained and for what purpose. While a vessel with satellite navigation equipment may be able navigate very accurately, dangers on the chart may not be accurately positioned so a wide berth is still advisable.

The most important guide to data quality on most paper charts of 1:500 000 scale and larger is the Source diagram or Source statement in the chart title. Some Source diagrams are based on the ENC Category of Zone of Confidence (CATZOC) but more usually the Sources will be listed by authority (e.g. government, harbour authority, foreign chart), age (see technology horizons table below), and scale (where relevant). Some may also add information about method of data collection (e.g. leadline, multibeam, passage soundings), type of survey (e.g. reconnaissance), % seafloor ensonification. From this, the mariner should be able to assess the likely accuracy of the charted detail. Note: Not every chart has a source diagram, particularly very large scales which may have a single source; in such cases, the source data will usually be stated under the title.

Data quality on ENC is mainly expressed by Zones of Confidence (ZOC). These provide a more exact guide to the positional accuracy and seafloor coverage of the source survey, compared to the 'clues' to data quality on paper charts from which the mariners will make their own assessment. Initially, ENC were compiled from paper charts. Often there was no time to reassess all source information to apply the different criteria used to establish ZOC, so some areas were marked as U (=unassessed); in such cases, the paper chart is likely to give more information. Some paper chart source diagrams now use ZOCs, sometimes with the addition of a temporal element to allow the mariner to assess how much the survey information may have degraded over time (especially in changeable areas). ZOCs are defined in various places including The Mariner's Handbook and on charts where they are used.

In changeable areas, the contours and depths at the edges of different surveys are unlikely to match. In such cases, a deliberate break may be left to show the edge, sometimes with a legend such as 'Discontinuity between surveys'. The date of the surveys may be shown either side of the break or can be determined from the Source diagram.

Survey technology has changed over the years. Fortunately, there have been relatively few fundamental technology changes and these, once introduced, have tended to rapidly take over for all surveys. Hence, there are a few 'technology horizons' at which survey accuracy took a step change. Between these technology horizons the quality of surveys will have remained relatively static. The dates and reasons for the technology horizons are given in the 'technology horizons' table below.

Year	Sounding method	Fixing method	Remarks
Pre 1865	Leadline	Angles to local land marks or celestial observations if in an offshore location	Surveys were mainly concerned with recording previously undiscovered lands. More attention was given to fixing the coast than to providing soundings. Soundings, where present at all, tend to be sparse with irregular gaps between them. The quoted scale is largely irrelevant when used to judge likely sounding density.
1865	Leadline	Angles to local land marks or celestial observations if in an offshore location	Steam replaced sail in British survey ships and regular lines of sounding begin to appear. The scale of survey will give an indication of the expected density of soundings (the larger, the denser). Inshore, where boats were used instead of the ships, oars still remained as the motive power and sounding lines continued to be irregular.
1905	Leadline	Angles to local land marks or celestial observations if in an offshore location	Steam replaced oars as the power for survey boats allowing regular lines to be extended to all areas and water depths of the survey. The scale of survey gives an indication of the expected density of soundings (the larger, the denser).
1935	Single beam echo Sounder	Angles to local land marks or celestial observations if in an offshore location	Greater ease of collecting soundings allowed a far greater density to be gathered. The scale of survey gives an indication of the expected density of soundings.
1950	Single beam echo Sounder	Electronic position fixing	Greater accuracy/consistency of position fixing extending further off shore than was possible with sextant angles to shore marks.
1973	Single beam echo sounder and Side Scan Sonar	Electronic position fixing	Side Scan Sonar (SSS) allows surveyors to locate hazards that exist between survey lines. For the first time the survey will have covered the entire sea floor.
1985	Single beam echo sounder and Side Scan Sonar	Satellite position fixing	Introduction of satellite positioning allows surveyors to accurately position ship anywhere in the world to a common datum.
2000	Swathe echo sounder	Satellite position fixing	Swathe (including beam-forming/multibeam, interferometric and LIDAR) replaces single beam and side scan sonar. Swathe allows the surveyor to not only detect obstructions between survey lines but also allows depths to be gathered over them. Scale is irrelevant, % ensonification is important.

Data Quality Indicators - Supplementary National Guidance



In addition to the Source diagram, there may be other clues to the accuracy of data. These are listed in various sections of NP5011, but a more detailed explanation is given below:

'PA' Position approximate (B7). Used to indicate that the position of a land or water feature has not been accurately determined or does not remain fixed.

'PD' Position doubtful (B8). Used principally to indicate that a wreck, obstruction, shoal, etc., has been reported in various positions and not definitely determined in any (e.g. a wreck or container washed overboard, where the last known position still afloat is the best data available).

'ED' Existence doubtful (I1). Used principally to indicate the reported existence of a rock, shoal, etc., the actual existence of which is considered improbable (e.g. because of doubts about the validity of the data or the context of the position).

'SD' Sounding doubtful (I2). Used to indicate that a depth over a shoal, a rock, etc., may be less than charted, though the position is not in doubt

'Rep' Reported (I3). Used to chart a reported danger to navigation, the existence of which has not been confirmed by a controlled survey, but there is no reason to doubt the validity. Sometimes called a vigia. It may indicate that a shoal area exists and there may be even shoaler depths in the vicinity. Sometimes a date will be included.

Discoloured water. This legend may indicate the possible existence of shoal water.

Imprecise shoal areas. In areas where reliable hydrographic survey data is very limited or non-existent, it may be possible to identify shoal areas by reference to other sources (e.g. satellite imagery, altimetry, gravimetric data). If confidence in the data is low (including extent and even approximate depth) such areas may be charted by an area of full shallow water blue tint, without limiting line, danger line or contour.

Soundings in fine upright font (I14). are used to draw attention to sources which are considered unreliable for some reason (e.g. enlarged from a small-scale survey, age of source, poor positional control). Usually in such areas, the depth contours will be shown as broken lines (I31) and the Source diagram may provide further information. Odd upright soundings scattered amongst normal soundings usually indicates that they are from older sources but have not been definitely disproved by a more modern survey of the area.

Unsurveyed/Inadequately surveyed (I25). Some areas are surrounded by a bold dashed line (usually black, but on some charts magenta) with a legend warning that the area is unsurveyed or that there is something 'inadequate' about the survey (which should be explained in a note or by reference to the Source diagram). Unsurveyed areas may also be shown by alternating bands of white and blue tint. Such areas are usually shown for comparatively small unsurveyed areas amongst surveyed areas; large unsurveyed areas will be apparent simply from a lack of any soundings.

Sandwaves (J14). The depth in sandwave areas may be less than charted, because surveys were not necessarily conducted at the time of maximum sandwave height.

Swept depths (I24, K2, K27, K42). A 'bracket' — under a depth indicates that the depth over a feature or within an area has been carefully measured by a physical means (e.g. drag sweep, diver). The depth was therefore accurate at the time of survey but it may have changed since. A date may be given.

Safe clearance depth (K3, K30). A 'bar' over a depth, e.g. (20) must not be confused with the symbol above; it means the opposite! It indicates that the depth has only been estimated, e.g. the depth over a wreck may be estimated by subtracting the height of the wreck from the general depth in the area and applying a safety margin. However, it is possible that the wreck is not lying flat on the sea floor.

Wreck 'not considered dangerous to surface navigation' (K29). ## The draught of surface vessels has increased since the symbol was originally designed (when it was assumed that the greatest draught was 8 fathoms/14.6m). Unfortunately, it cannot be assumed that the symbol has been updated on a later chart (even though the depth criteria for the symbol has been changed over time). Any vessel with a draft greater than 14m is therefore recommended to avoid passing over such wrecks (except where they are in water deep enough to render them completely safe). More details are given in The Mariner's Handbook.

Spoil grounds and extraction areas (N62, N63). Even if marked disused, such areas indicate that depths are likely to have changed since the last survey. It should not be assumed that extraction areas will be deeper; the extraction process may result in material being heaped up in some areas.

After disasters. Sometimes the charted depths covering large areas of seafloor may become suspect as the result of a major disaster (e.g. tsunami, earthquake, hurricane). A cautionary note on the chart and/or a preliminary Notice to Mariners will generally be issued. Emergency surveys completed after the disaster to cover shipping lanes may then be highlighted in some way on the chart, with an explanatory note provided on the chart.

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

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

CURRENT FORM	OBSOLESCENT FORM(S)	TERM	ENGLISH MEANING	CURRENT FORM	OBSOLESCENT FORM(S)	TERM	ENGLISH MEANING
ALBANIAN	K	Kodër, Kodra	Hill	FRENCH (c	ontinued)		
ARABIC				F. Ft. G.	FI Ft	Fleuve Fort Golfe	Large river Fort Gulf
Geb. J. Jaz.	Djeb, Dj G Jab, J ^l Jazt	Djebel Gebel Jabal, Jib° I, Jebel Jaz@at, Jaz° ir Jaz@eh	Mountain, Hill Mountain, Hill Mountain(s), Hill(s) Island(s), Peninsula	Ht.Fd.	Gd, G ^d , Gde, G ^{de} H.F., Ht fd, H ^t f ^d , H ^t fond I, I ^t	Grand, Grande Haut-fond Île, Îles, Îlot	Great Shoal Island(s), Islet
Jeb. Jez. Kh.	J, J ^l Jez ^t K	Jebel Jez@at Khawr, Khër	Mountain, Hill Island, Peninsula Inlet, Channel	L. Mlg.	Mn, M ⁱⁿ Mge, M ^{age} , Mou	Lac Moulin Mouillage	Lake Mill Anchorage
W.	Si, S ⁱ	Sidi W° d, W° di	Tomb Valley, River, River bed	Mt. P.	M ^t N.D.	Mont Notre Dame Port	Mount, Mountain Our Lady Port
CHINESE Chg.	Chg	Chiang	River, Shoal,	Pit. Pl. Plat.	Pet, Pit, Pite, Pt Pn, Pon Pla, Plat ^u	Petit, Petite Piton Plage Plateau	Small Peak Beach Tableland, Sunken
			Harbour, Inlet, Channel, Sound	Pte. Qu.	Pte Q	Pointe Quai	flat Point Quay
DANISH B. Bk.	B ^k	Bugt Banke	Bay, Bight Bank	R. Rf.	Rau, Riv, R ^{au} Rav, R ^{ne}	Rivière, Ruisseau Ravine Récif	River, Stream Ravine Reef
Fj. Gr. H.	F ^d Grd, Gr ^d , G ^d Hm, H ^m , Hne, H ^{ne}	Fjord Grund Holm, Holmene	Inlet Shoal Islet(s)	Roc. S. Tr.	Re, Re, Rer, Rer St, S ^t , Ste, S ^{te} Som. T ^r	Roche, Rocher Saint, Sainte Sommet Tour	Rock Saint, Holy Summit Tower
Hd. Hn. Ll. N.	Hu Hq	Hoved Havn, Havnen Lille Nord, Nordre	Headland Harbour Little North, Northern	11.	Vi, V ^x	Vieux, Vieil, Vielle	Old
Ø. Øy.	Øne, Ø ^{ne} , Öne, Ö ^{ne}	Øst, Østre Øyane, Øyene, Öyane Öyene	East, Eastern Islands	GAELIC Bo. Eil.	E, En, E ⁿ	Bogha Eilean, Eileanan	Below water rock Island(s), Islet(s)
Pt. S. Sd. Sk.	P ^t S ^d Skr, Sk ^r	Pynt Sønder, Søndre Sund, Sundet Skær, Skjær	Point South, Southern Sound Rock above water	Ru. Sg.	Ru Sgr, Sg ^r	Rubha Sgeir	Point Rock
St. V.	OKI, OK	Stor Vest, Vestre	Great West	GERMAN B.	D0	Bucht	Bay
DUTCH B.	Bi	Baai	Вау	Bg. Gr. Hn. K.	B ^g Grd, G rd , G ^d H ⁿ	Berg Grund Hafen Kap	Mountain Shoal Harbour Cape
Bg. Bk. Eil. G.	B ^g B ^k Eiln, Eil ⁿ	Berg Bank Eiland, Eilanden Golf	Mountain Bank Island(s) Gulf	Rf.	R ^f Schl	Riff Schloss	Reef Castle
H. Pt.	Gt, Grt, G ^t , G ^{rt}	Groot, Groote Hoek Punt	Great Cape, Hook Point	GREEK Ág., Ag.	Áy., Ay.	Ágios, Ágia	Saint, Holy
R. Rf. Str.	R ^f Stn, St ^r , St ⁿ	Rivier Rif Straat, Straten	River Reef Strait(s)	Ágk. Ágky. Ák., Ak. Kól.	Ang. Angir., Ang Kol	Agkáli Agkyrovólio Ákra, Akrotírio Kólpos	Bight, Open bay Anchorage Cape Gulf
FINNISH K.		Kari, Kallio, Kivi	Rock, Reef	Lim. N. N.	N	Limín, Liménas Nísos, Nísoi Nisída, Nisídes	Harbour Island(s) Islet(s)
Lu. Ma. Sa.	P S ^a	Luoto, Luodet Matala Pieni, Pikku Saari, Saaret	Rock(s) Shoal Small Island(s)	Ó. Or. Ór.	O Or	Órmos Ormískos Óros, Óroi	Bay Cove Mountain(s)
Tr.	Tr	Torni	Tower	Pot. Sk.	Prof	Potamós Profítis Skópelos, Skópeloi	River Prophet Reef(s), Drying rock(s)
FRENCH A. B.	Ae Be	Anse Baie	Inlet Bay	Vrach.	Vrak	Vrachonisída, Vrachonisídes	Rocky islets
Bc.	Bas. Bsse B ^c Bssn, Bn, B ⁿ	Basse Banc Bassin	Shoal Bank Basin	Vrach. Ýf.	Vrák Íf.	Vráchos, Vráchol Ýfalos, µfaloi	Rock(s) Reef(s)
C. Cal. Ch. Chât.	Ch ^{al} , Chen Chap, Chap ^e Chât ^{u,} Ch ^{au}	Cap Chenal Chapelle Château	Cape Channel Chapel Castle	ICELANDIC Fj. Gr.	Fjr, F ^{dr}	FjörÉur Grunn	Fjord Shoal

CURRENT FORM	OBSOLESCENT FORM(S)	TERM	ENGLISH MEANING	CURRENT FORM	OBSOLESCENT FORM(S)	TERM	ENGLISH MEANING
INDONESIA	AN and MALAY			JAPANESE	(continued)		
		Air Aigr Aver	Stream	J.	ја	Jima	Island
A.	D., DII	Air, Ajer, Ayer		K.	Ka, K ^a	Kawa	River
В.	Bu, Bu	Batu	Rock		Kaik, Ko, Ko	Kaikyō	Strait
Bat.	Btg, B ^{tg}	Batang	River	M.	Mki, M ^{ki} , M ⁱ	Misaki	Cape
	Bdr, B ^{dr}	Bandar, Bendar	Port		Ma, M ^a	Mura	Village
	Br, B ^r	Besar	Great		Mi, M ⁱ	Machi	Town
Buk.	Bt, B ^t	Bukit	Hill	S.	Si, S ⁱ	Saki	Cape, Point
G.	Gg, G ^g	Gosong, Gosung,	Shoal, Reef, Islet	Sh.	Sa, S ^a	Shima	Island
		Gusong, Gusung		SII.	Sn, S ⁿ	San	
Gun.	Gg, G ^g	Gunong, Gunung	Mountain				Mountain
K.	Ki, K ⁱ	Kali	River	0	So, So	Seto	Strait
K.	Kr	Kroeng, Krueng	River	Su.	Sdo, S ^{do}	Suidë	Channel
Kam.	Kg, K ^g	Kampong, Kampung	Village		Te, Te	Take	Hill, Mountain
Kar.	Kg, K ^g	Karang	Coral reef, Reef	_	Ya, Y ^a	Yama	Mountain
Kep.	Kpn, K ^{pn}	Kepulauan	Archipelago	Z.	Zi	Zaki	Cape, Point
KI.	Κ ⁱ	Kachil, Kechil, Ketjil,	Small		Z ⁿ	Zan	Mountain
	• •	Kecil	<i></i>				
Ku.	Kla, K ^{la}	Kuala	River mouth	ΜΔΙ ΔΥ (ςρ	e INDONESIAN)		
Lab.	Labn, Lab ⁿ	Labuan, Labuhan	Anchorage, Harbour	WIALAT (SCC	O INDONEONAN)		
Mu.	Ma, M ^a	Muara	River mouth				
P.	Pu, Pu, Po	Pulau, Pulu, Pulo	Island	NORWEGIA	AN		
Peg.	ru, r*, r*	Pegunungan	Mountain range	В.	B. B ^{kt}	Bukt, Bukta	Bay, Bight
	Dia Din			Bg.	B ^g	Berg, Bierg, Bjerg	Mountain, Hill
Pel.	Pln, P ^{ln}	Pelabuan, Pelabuhan	Roadstead,	Fd.	F ^d , Fi	Fjord, Fjorden	Fiord
D D	D.D.	Dulan andan	Anchorage				Mountain
PP.	P.P.	Pulau-pulau	Group ofislands	Fjel.	Fj	Fjell, Fjellet, Fjeld,	wioundin
	Prt, P ^{rt}	Parit	Stream, Canal,	Fl.	Fine, Fine	Fjeldet	Polous wotor roals/-1
_	a. a:		Ditch	FI.	Fine, Fine	Flu, Flua, Fluen,	Below water rock(s)
S.	Si, S ⁱ	Sungai, Sungei	River		0 0 ne	Fluane, Fluene	01 1/)
Sel.	Slt, S ^{lt}	Selat	Strait	Gr.	Grne, Gr ^{ne}	Grunn, Grunnen,	Shoal(s)
T.	Tg, T ^g	Tandjong, Tandjung,	Cape			Grunnane	
		Tanjong, Tanjung		H.	Hm, H ^m , Hne, H ^{ne}	Holm, Holmen,	Islet(s)
		Tanjing				Holmane	
Tel.	Tal, Tk, T ^k	Taluk, Telok, Teluk	Bay	Hn.	Hn	Hamn, Havn	Harbour
U.	Ug, U ^g	Udjung, Ujung	Cape	in.	In ^r , I	Indre, Inre, Inste	Inner
W.		Wai	River	L.		Lille, Liten, Litla, Litle	Little
				Lag.	La, L ^a	Laguna	Lagoon
				N.		Nord, Nordre	North, Northern
ITALIAN				Ø.	Ö	Øst, Østre, Öst,	East, Eastern
Anc.		Ancoraggio	Anchorage			Östre	
B.		Baia	Bay	Od.	0	Odde, Odden	Point
Banch.	Bna, B ^{na}	Banchina	Quay	Øy.	Ø, Ö, O	Øy, Øya, Öy, Öya	Island
Bco.	Bco	Banco	Bank	Øy.	Øne, Øne, Öne, Öne	Øyane, Øyene, Öyane,	Islands
C.		Capo	Cape	,	, , , , , , , , , , , , , , , , , , , ,	Öyene	
Cal.		Calata	Wharf	Pt.	Pt	Pynt, Pynten	Point
Can.		Canale	Channel	S.	-	Syd, Søre, Søndre	South, Southern
Cas.		Castello	Castle	Sd.	Sd	Sund, Sundet	Sound
F.		Fiume	River	Sk.	Skr, Sk ^r	Skjær, Skjer, Skjeret	Rock above water
Fte.	Fte	Forte	Fort	Sk.	Skne, Sk ^{ne}	Skjerane, Skjærane	Rocks above water
G.	•	Golfo	Gulf	St.	OKTIC, OK	Stor, Stora, Store	Great
a.	Gde, Gde	Grande	Great	Tar.	Tn, T ⁿ	Taren	Below water rock
1	la, le	Isola, Isole	Island(s)	V.	111, 1	Vest, Vestre	West
l. I.	Ito, Iti	Isolotto, Isolotti	Islet(s)	Vag.	Vg, V ^g	Våg, Vågen	Bay, Cove
L.	1, 1.	Lago	Lake	vay.	Vg, V ^g Vd, V ^d	Vag, Vagen Vand	Lake
	La, L ^e	Laguna	Lagoon	Vik.	Vk, V ^k	Vik, Vika, Viken	
Lag.				VIK.		Vann Vatn	Bay, Inlet
	Mda, Mad, Mad ^a , Mad ^{na}	Madonna	Our Lady	Y.	Vn, V ⁿ Y ^t	Vann, Vatn Ytre, Ytter, Yttre	Lake Outer
Mte.	Mte	Monte	Mount Mountain	1.	1.	rire, riter, ritie	Outer
	Pto, P ^{to}	Porto	Mount, Mountain Port				
P. P.	Pro, Pro Portlo, Portlo	Porto Porticciolo	Small port	PERSIAN			
	Pco			B.		Bandar	Harbour
Pco.		Picco	Peak	Jab.		Jabal	Mountain, Hill
Pog.	Pgio, P ^{gio} Pta	Poggio	Mound, Small hill	Jaz.	Jazh, Jaz ^h	Jazīreh	Island, Peninsula
Pta.	•	Punta	Point, Summit	Kh.	K	Khowr	Inlet, Channel
	Pte, Pte	Ponte	Bridge	R.	**	Rød	River
0	Pzo, P ^{zo}	Pizzo	Peak				
S.	Sto, S ^{to} , Sta, S ^{ta}	San, Santo, Santa	Saint, Ho/y				
S.	SS, S.S.	Santi	Saints	POLISH			
Scog.	Sco, Sci, Sc, Sci	Scoglio, Scogli	Rock(s), Reef(s)	Jez.		Jezioro	Lake
Scog.	Sc, Scra	Scogliera	Ridge of rocks,	Kan.		Kanal	Channel
_	_		Breakwater	Miel.		Mielizna	Shoal
Sec.	Se	Secca, Secche	Shoal(s)	R.		Rzeka	River
_	T, Tte	Torrente	Intermittent stream	W.	Wys, Wa, W ^a	Wyspa	Island
Tr.	Tre, Tre	Torre	Tower	Zat.	• • •	Zatoka	Gulf, Bay
	Va, V ^{la}	Villa	Villa				
				DODTUGUE			
IADANICOC				PORTUGUE			
JAPANESE		_	_		Anc.	Ancoradouro	Anchorage
B.	Ba	Bana	Cape, Point	Arq.	Arqu ^o	Arquipélago	Archipelago
By.	Bi, B ⁱ	Byëchi	Anchorage	B.		Baía	Bay
	De	Dake	Mountain, Hill	Bco.	Bco	Banco	Bank
G.	Ga	Gawa	River	Bxo.	Ba, Bxo, Bxa, Bxa	Baixo, Baixa, Baixia,	Shoal
H.	Ha, H ^a	Hana	Cape, Point			Baixio	
Hak.	Hi, H ⁱ	Hakuchi	Roadstead	Co.	C.	Cabo	Cape

CURRENT FORM	OBSOLESCENT FORM(S)	TERM	ENGLISH MEANING	CURRENT FORM	OBSOLESCENT FORM(S)	TERM	ENGLISH MEANING
PORTUGU	ESE (continued)						
Can.		Canal	Channel				
Ens.	Ensa	Enseada	Bay, Creek	SPANISH			
Est.	Est ^o	Esteiro	Creek, Inlet		A, Arro, Arro	Arroyo	Stream
Estr.		Estreito	Strait	Arch.	Arch ^o	Archipiélago	Archipelago
Estu.	Est, Esto	Estuario	Estuary	Arrf.	Arr ^e , Arr ^{fe} , Arr	Arrecife	Reef
	Fte, F ^{te}	Forte	Fort	Ba.	Ba	Bahía	Bay
	Fte, Ftza, F ^{tza}	Fortaleza	Fortress		Bo, Bo	Bajo	Shoal
Fund.		Fundeadouro	Anchorage	_	Bco, Bco	Banco	Bank
G.	0 1 Odo	Golfo	Gulf	Br.	Bzo, B ^{zo}	Rompientes	Breakers
	Gde, G ^{de}	Grande	Great	C.		Cabo	Cape
l.		Ilhéu, Ilhéus, Ilhota	Islet(s)		Cal, Cta	Caleta	Cove
l.		Ilha, Ilhas	Island(s)		Can.	Canal	Channel
	L. L.	Lago	Lake Small lake March		Cer, Co, C ^o Cre.	Cerro Cumbre, Cima	Hill Summit
La.	Le, L ^e	Lagoa Laje	Small lake, Marsh Flat-topped rock		Cy	Cayo	Cay, Key
Lag.	La, La	Laguna	Lagoon		Ens, Ens ^a	Ensenada	Cove
Lag.	Mol, Me, Me	Molhe	Mole		Est, Esto	Estero	Creek, Inlet
	Mor, Mo, M ^o	Morro	Headland, Hill		Estr.	Estrecho	Strait
Mt.	M ^{te} . Mte	Monte, Montanha	Mount, Mountain		Estu, Est, Esto	Estuario	Estuary
NS.	Na.Sa, NaSa	Nosso Senhor, Nossa	Our Lord, Our Lady		Fond, Fond ^o	Fondeadero	Anchorage
	,	Senhora	, ,	_	Fte, F ^{te}	Fuerte	Fort
P.	Pto, Pto	Porto	Port	G.	Gde, G ^{de}	Golfo Grande	Gulf Great
	Pal, Pals, Pals	Palheiros	Fishing village	I, Is	la	Isla, Islas	Island(s)
	Par, Pel, P ^{el}	Parcel	Shoal, Reef	1, 10	i, Ite	Islote, Isleta	Islet
Pass.	Pas	Passagem, Passo	Passage, Pass		Ľ.	Lago	Lake
	Pco, Pco, Po	Pico	Peak		Lag, La, L ^a	Laguna	Lagoon
	Pda, P ^{da}	Pedra	Rock		Mor, Mo, Mo	Morro	Headland, Hill
	Peq	Pequeno, Pequena	Small		Mte, M ^{te}	Monte	Mount, Mountain
ъ.	Pr, Pa, Pa	Praia	Beach		Mu, Me, Me, Mile	Muelle	Mole
Pta.	Pta	Ponta	Point		Na. Sa, N ^a S ^a P. Pto. P ^{to}	Nuestra Señora	Our Lady
Dak	Queb.	Quebrada, Quebrado	Cut, Ravine		Pco, Pco, Po	Puerto Pico	Port Peak
Rch.		Riacho, Ribeira,	Creek, Stream,		Pda, P ^{da}	Piedra	Rock
Rf.		Ribeirão	River	Pen.	Pen ^{la}	Península	Peninsula
Ro.	R	Recife Rio	Reef River		Peq	Pequeño, Pequeña	Small
Roc.	Ra, R ^a	Rocha, Rochedo	Rock		PI, Pa, P ^a	Playa	Beach
S.	Sto, S ^{to} , Sta, S ^{ta}	São, Santo, Santa	Saint, Holy	Prom.	Promto	Promontorio	Promontory
Sa.	Sa, S ^a , Sr	Serra, Cordilheira	Mountain range		Pta, P ^{ta}	Punta	Point
oa.	Va, V ^a	Vila	Town, Village,		Queb.	Quebrada	Cut, Ravine
	va, v	VIIC	Villa		R.	Río	River
			·		Rga. Roc, Ra, R ^a	Restinga Roca	Shoal, Sandbank Rock
				S.	Sn, S ⁿ , Sto, S ^{to} ,	San, Santo, Santa	Saint, Holy
ROMANIAN	l			0.	Sta, S ^{ta}	ouri, ourito, ourita	Guint, 1101y
A.		Ans`, Ansa	Cove		Sr, Sa, S ^a	Sierra	Mountain range
B.		Baie, Baia	Bay		Surg, Surgo, Surgo	Surgidero	Anchorage,
Br.		Braò Braòul, Braòu	Branch, Arm	_	T Tro	_	Roadstead
			(of the sea)	Tr.	Te, Tre	Torre	Tower
C.		Cap, Capul, Capu	Cape		Va, V ^a	Villa	Villa, Small town
Di., D-le.		Deal, Dealuri, Dealuri,	Hill(s)	014/551011			
Ed mio		Dealurile Fund min	Chool	SWEDISH			
Fd.mic I.		Fund mic Insul`, Insula	Shoal Island	_	B.	Bukt	Bay, Bight
L.		Lac, Lacul, Lacu	Lake	Bg.	Bgt, Bg	Berg, Berget	Mountain
Mt., M-ði.		Munte, Muntele,	Mountain, Mounts	F:	Bk, B ^k F ^d	Bank	Bank
IVIC., IVI GI.		Mună, Muntii	Wountain, Wounts	Fj.	Gla, G ^{la}	Fjärd, Fjord Gamla	Fjord Old
Ο.		Ostrov, Ostrovul,	Island	Gr.	Grn, Grd, G rd , G ^d	Grund	Shoal
-		Ostrovu	** *	H.	Hm, H ^m	Holme, Holmarna	Islet
S.		Stînca, Stînca	Rock		Hd, Hd	Huvud	Headland
Sf.		Sfînt, Sfîntu, Sfîntul,	Saint, Holy		Hn, H ⁿ	Hamn, Hamnen	Harbour
		Sfînta	-	I.		Inre	Inner
Str.		Strîmtoare,	Pass, Strait	L.		Lilla, Liten	Little, Small
		Strîmtoarea		N.		Nord, Norra	North, Northern
				Ö. S.		Öst, Östra Syd, Södra	East, Eastern South, Southern
RUSSIAN				Sk.	Sk ^r	Skär, Skäret, Skären	Rock above water
		5	5	St.	OK	Stor	Great, Large
В	Di- Dka Di- Dki Di-	Bukhta	Bay, Inlet	V.		Väst, Västra	West, Western
b-ka.	Bka, B ^{ka} , Bki, B ^{ki} , Bk		Bank(s)	Y.	γt	Yttre	Outer
Bol.		Bol'shoy, Bol'shaya,	Great, Large				
Gb.	G, Ga, G ^a	Bol'shoye Guba	Gulf, Bay, Inlet	THAI			
GD. G.	a, aa, a-	Gora	Mountain, Hill	Kh.		Khao	Hill, Mountain
G. Gav.	G	Gavan'	Harbour, Basin	L.	Lm, L ^m	Laem	Cape, Point
Kam.	∽	Kamen'	Rock	M.N.	, -	Mae Nam	River
M.		Mys	Cape, Headland			•	
	Mal	Malyy, Malaya, Maloye	Little	TURKISH			
Ο.	Ova	Ostrov, Ostrova	Island(s)	Ad.		Ada Adası	Island
Oz.		Ozero	Lake	Ad. Aî p		Ada, Adası Takimadalar	Island Archipelago
P-ov.	Polov, Pov, Pol	Poluostrov	Peninsula	Adc.	Ad	Adacık	Islet
Pr.	Prv, Pr ^v	Proliv	Channel, Strait	BoÔ		Boğaz, Boğazı	Strait
R.		Reka	River	Br.	Bn, Bu	Burun, Burnu	Point, Cape
Zal.		Zaliv	Gulf, Bay	Ç.	Ça	Çay, Çayı	Stream, River

CURRENT FORM	OBSOLESCENT FORM(S)	TERM	ENGLISH MEANING	CURRENT FORM	OBSOLESCENT FORM(S)	TERM	ENGLISH MEANING
				Languages Br. Gr.	of the former YUGOS	ELAVIA Brdo, Brda Greben, Grebeni	Mountain(s) Rock, Reef, Cliff, Ridge
TURKISH ((continued)			Hr.		Hrid, Hridi	Rock
D.	Da De	Dağ, Dağı Dere, Deresi	Mountain Valley, Stream	M.		Luka Mali, Mala, Malo, Malen	Harbour, Port Small
Dz. G. Isk.		Deniz Göl, Gölü İskele, İskelesi	Sea Lake Jetty	O. O. Pl.		Otočić, Otočići Otok, Otoci Pličina	Islet(s) Island(s) Shoal
Kf. Krf.		Körfez, Körfezi	Gulf	Pr.		Prolaz	Passage
Ky. Lim. Lm. N.	Kyl. Li	Kaya, Kayası Liman, Limanı Nehir, Nehri, Irmak,	Rock Harbour River	S. -k. U.	Sv	Sveti, Sveta, Sveto Školj, Školjić Uvala, Uvalica	Saint, Holy Island, Reef Inlet
T.	Te, T ^e	Irmağı Tepe, Tepesi	Hill, Peak	V.		Veli, Vela, Velo, Velik, Veliki, Velika, Veliko	Great
Yad.	10, 1	Yarımada, Yarımadası	Peninsula	Z.	Zal	Zaliv, Zaljev, Zaton	Gulf, Bay

Index of Abbreviations of Principal English Terms (Note: INT abbreviations are in bold type)

CURRENT FORM	OBSOLESCENT FORM(S)	TERM	REFERENCES	CURRENT FORM	OBSOLESCENT FORM(S)	TERM	REFERENCES
abt	ab ^t	About	_	DGPS		Differential Global	S 51
Accom Aero		Accommodation Vessel Aeronautical	L17 P 60, 61		Di, di	Positioning System Diatoms	Jv
AIS		Automatic Identification	S 17, 18	Dia		Diaphone	R 11
	Al	System Algae	Js	Dir Dir	Dir ⁿ Dir Lt	Direction Direction light	— Р 30-31
AI.	Alt	Alternating light	P 10.11	Discol	Discold	Discoloured water	Kd
ALC ALL		Articulated Loading Column ADMIRALTY List of Lights	_	discont dist	discontd, discont ^a Dist	Discontinued Distant	_
ALRS		and Fog Signals ADMIRALTY List of Radio	_	Dk dm	D ^k dm.	Dock Decimetre(s)	— В 42
		Signals		Dn, Dns	D^n	Dolphin(s)	F 20
Am Anch.	Anche	Amber Anchorage	P 11.8 —	dr DW	dr., Dr.	Dries Deep-water, Deep-draught	K a M 27. N 12.4
	Anct, Anct	Ancient	-	dwt DZ		Deadweight tonnage	_ ′
ANM		Annual Summary of ADMIRALTY Notices to	_			Danger Zone	Q 50
Annly	Ann ^{ly}	Mariners Annually		E ED	E. (ED), (E.D.)	East Existence doubtful	B 10 I 1
Appr.	Apprs, Apprs	Approaches	_	EEZ	, , , ,	Exclusive Economic Zone	N 47
approx Apr	Approx	Approximate April		Ent.	E.F. Horn Entce, Ent ^{ce}	Electric fog horn Entrance	R 13 —
Arch.	Archo, Archo	Archipelago	_		Equin	Equinoctial	_
ASD		ADMIRALTY Sailing Directions		ESSA		Environmentally Sensitive Sea Area	N 22
ASL	Astr, Astrl, Astrl	Archipelagic Sea Lane Astronomical	M17	Est.	Est ^y Estab ^t	Estuary Establishment	_
ATBA	Asii, Asiii, Asii	Area to be Avoided	M14, 29		ev.	Every	
ATT Aug		ADMIRALTY Tide Tables August		exper explos	experl, Exper ^l explos.	Experimental Explosive	 R 10
Aus		Australia	_	(exting)	(exting ^d)	Extinguished	P 55
Ave	Ave	Avenue	_	f		Fine	J 30
В. В	bl, blk	Bay Black	— J af, Q 2	F FAD		Fixed Fish Aggregating Device	P 10.1
Ь	Ba	Basalt	Jh	F Racon		Fixed frequency radar	
Bk.	Batt, Baty, Bat ^y B ^k	Battery Bank	E 34.3	Feb		transponder beacon February	S 3.4 —
bk	brk	Broken	J 33	FFL	E . Ed	Fixed and flashing light	P 10.10
Bldg	B ^{ldg} BM, B.M.	Building Bench Mark	D 5 B 23	Fj.	Fd, F ^d (fish ^g)	Fjord Fishing light	— P 50
Bn, Bns	,	Beacon(s)	M 1-2 , P 4-5 , Q 80-81	FI	fl.	Flashing Flood	P 10.4
BnTr	Bn Tower	Beacon Tower	P 3, Q 110	Fla	Fl., fl	Flare stack (at sea)	 L 11
Bo Bol	Boll.	Boulders Bollard	J 9.2 F a	fm, fms	Fm, F ^m fm, fms	Farm Fathoms	— В 48
Br		Breakers	K 17	Fog Det Lt	,	Fog detector light	P 62
Bu	br Bl, Bl., b	Brown Blue	J ak J ag, P 11.4 ,		Fog Sig. Fog W/T	Fog signal station Radio fog signal	R 1 —
			Q a	FPSO	3	Floating Production and	L17
C.		Cape	_		Fr, for	Storage Offtake Vessel Foraminifera	J t
c ca	cal	Coarse Calcareous	J 32 J 38	FS FSO	F.S.	Flagstaff, Flagpole Floating Storage and	E 27 L17
CALM	odi	Catenary Anchor Leg	L 16			Offtake Vessel	
Cas	Cas.	Mooring Castle	E 34.2	FSU	Ft, F ^t	Floating Support Unit Fort	L17 E 34.2
Cb	Cath, Cath.	Cathedral Cobbles	E 10.1 J 8	ft	f ^t	Foot, feet	B 47, P 13
cd		Candela	B 54	G	g	Gravel	J 6
CD	Cemy, Cemy	Chart Datum Cemetery	H 1 E 19	G	gn	Green	J ah, P 11.3, Q 2
CG	C.G.	Coastguard station	T 10-11	G.	an alon	Gulf	_
Ch	Ch. ch, choc	Church, chapel Chocolate	E 10.1 J al		ga, glac Gc	Glacial Glauconite	Jac Jo
Chan. Chem		Channel Chemical	 L 40		Gd, grd Gl, gl	Ground Globigerina	Ja Ju
	chk, Ck	Chalk	Je	01:05	Govt Ho, Gov ^t Ho	Government House	-
Chy	Ch ^y cin, Cn	Chimney Cinders	E 22 J m	GNSS		Global Navigation Satellite System	_
cm	cm.	Centimetre(s)	B 43 J 10. K 16	Gp.	GnEL Gn El	Group (of islands)	— P 10.4
Со	crl Col	Coral Column, pillar, obelisk	E 24		GpFI, Gp.FI. GpOcc, Gp.Occ.	Group-flashing Group-occulting	P 10.4 P 10.2
const	conspic constn, constr ⁿ	Conspicuous Construction	E 2 F 32	GPS	grt	Global Positioning System Gross Register Tonnage	_
COV	COV.	Covers	Kb		Ğt, Grt, G ^t , Gr ^t	Great	_
Cr. Cup	Cup.	Creek Cupola	E 10.4		G.T.S.	Great Trigonometrical Survey Station (India)	_
Су	cl	Clay	J 3	GT	Gy, gy	Grey Gross Tonnage	J am, Q a
	(D)	Doubtful	_			<u> </u>	_
Dec	d	Dark December	J ao	h	Н, Н.	Hard Headway	J 39 D 20, D 26-27
decrg	decr ^g	Decreasing	_	Н		Helicopter transfer (Pilots)	T 1.4
dest Det	destd, Dest ^d	Destroyed (see Fog Det Lt)		h HAT	h., H.	Hour Highest Astronomical Tide	B 49 H 3
DG	D. G.	Degaussing	N 25, Q 54	Hd. Hn.	H ^d H ⁿ	Headland Haven	_
				1 11 1.	- 1	Havon	

(Note: INT abbreviations are in bold type)

CURRENT FORM	OBSOLESCENT FORM(S)	TERM	REFERENCES	CURRENT FORM	OBSOLESCENT FORM(S)	TERM	REFERENCES
Но		House	_	Mar		March	_
(hor)	(hor ^l)	Horizontally disposed	P 15	MHLW	M.H.L.W.	Mean Higher Low Water	H 14
Hosp Hr.	Hospl, Hosp ^l H ^r	Hospital Harbour	F 62.2	MHW		Mean High Water	H 5
1 11.	Hr, H ^r	Higher	_	MHWN	M.H.W.N.	Mean High Water Neaps	H 11
Hr Mr		Harbour Master	F 60	MHWS	M.H.W.S.	Mean High Water Springs	H 9
HW	Ht, H ^t H.W.	Height High Water	— На		Mid, Mid.	Middle	_
1 1 1 4 4	H.W.F. & C.	High Water Full and	—	min Mk	min., m.	Minute(s) of time Mark	B 50 Q 101
		Change		IVIK	MI, mI	Marl	Jc
	H.W.O.S.	High Water Ordinary	_		•		
		Springs		MLHW	M.L.H.W.	Mean Lower High Water	H 15
I.	It	Island, islet	_	MLLW MLW	M.L.L.W.	Mean Lower Low Water Mean Low Water	H 12 H 4
IALA		International Association of	Q 130	MLWN	M.L.W.N.	Mean Low Water Neaps	H 10
11.10		Lighthouse Authorities		MLWS	M.L.W.S.	Mean Low Water Springs	H 8
IHO		International Hydrographic Organization	_	mm Mo	mm.	Millimetre(s) Morse code	B 44 P 10.9, R 20
(illum)	Illum., (lit)	Illuminated	P 63	Mon	Mont, Mon ^t	Monument	E 24
IMO		International Maritime	_		Mony, Mon ^y Ms, mus	Monastery Mussels	 J a
	in., ins.	Organization Inch, inches		MR	ivis, mus	Marine reserve	N 22
incrg	incr ^g	Increasing		MRCC		Maritime Rescue and	_
INT		International	A 2, T 21	MSL	M.S.L.	Coordination Centre Mean Sea Level	H 6
Intens	(intens)	Intensified	P 46	Mt.	M ^t	Mountain, mount	—
IQ	IntQkFI, Int.Qk.FI. (irreg.)	Interrupted quick-flashing Irregular	P 10.6	Mth.	M th	Mouth	
	ISLW, I.S.L.W.	Indian Spring Low Water	_	MTL	M.T.L.	Mean Tide Level	Нс
Iso		Isophase	P 10.3	N	N.	North	B 9
ITZ	It	Islet Inshore Traffic Zone		ND	Nauto	Nautophone	R 13
IUQ		Interrupted ultra guick-	P 10.8	NB NE	N.B. N.E.	Notice Board North-east	Q 126 B 13
		flashing		NM	N.M.	Notice(s) to Mariners	_
IVQ	IntVQkFI, Int.V.Qk.FI	Interrupted very quick- flashing	P 10.7	n mile	NO	International Nautical Mile	B 45
		liasiling		No Nov	No	Number November	N 12.2
Jan		January	_	Np	Np.	Neap Tides	H 17
Jul		July	_	nrt		Nett register tonnage	_
km	km.	Kilometre(s)	B 40	NT NW	N.W	Net Tonnage North-west	— В 15
kn	kn.	Knot(s)	B 52, H 40-41	NZ		New Zealand	_
L.		Lake, Loch, Lough	_		Obs Spot,	Observation Spot	B 21
	1	Large	J ab		Obsn Spot,	Coder valient oper	521
Lag.	Lagn, Lagn	Lagoon	_	Ohaad	Obs ⁿ Spot Obsc ^d	Observed	D 40
	LANBY	Large Automatic Navigational Buoy		Obscd Obstn	Obst ⁿ	Obscured Obstruction	P 43 K 40-43, L 43
LASH		Lighter Aboard Ship	_		Obsy, Obs ^y	Observatory	_
LAT		Lowest Astronomical Tide	H 2	Oc (occas)	Occ, Occ. (occas ^l)	Occulting Occasional	P 10.2 P 50
Lat	Lat. LB. L.B.	Latitude Lifeboat station	B 1 T 12	Oct	(Occas)	October	_
Ldg	Ldg	Leading	P 20.3	OD	O.D.	Ordnance Datum	H d
Le.	Le	Ledge	_	ODAS		Ocean Data Acquisition System	Q 58
LFI	Lit, Lit.	Long-flashing Little	P 10.5		Off, Off.	Office	_
	(lit)	Floodlit	P 63	Or	Or. ord.	Orange	P 11.7, Q 3
LL	Ĺ.Ĺ.	List of Lights	_		Oy, oys	Ordinary Oysters	 Јр
Lndg LNG	Ldg	Landing place Liquefied Natural Gas	F 17		Oz, oz	Ooze	Jb
LOA		Length overall	_	Р	peb	Pebbles	J 7
LoLo		Load-on, Load-off	_	P.	рев	Port	_
Long LPG	Long.	Longitude Liquefied Petroleum Gas	B 2 —	(P) PA	(DA) (DA)	Preliminary (NM)	— В 7
LFG	Lr, L ^r	Lower	P 23	Pag Pag	(PA), (P.A.) Pag.	Position approximate Pagoda	В 7 Е 13
	L.S.S.	Lifesaving station	_	Pass.	•	Passage	
Lt	L ^t , lt	Light	Jan, P1	PD	(PD), (P.D.)	Position doubtful	B 8
Lts LtHo	L ^t Ho	Lights Lighthouse	P 61.2 P 1	Pen. Pk.	Penla, Pen ^{la} P ^k	Peninsula Peak	_
Lt V	L ^t V	Light-vessel	Q 32		Pm, pum	Pumice	Jj
	Lv, Iv	Lava	Ji	PO	P.O. Po, pol	Post Office Polyzoa	F 63
LW	L.W. L.W.F. & C.	Low Water	H b	pos	posn, pos ⁿ	Position	Ј у —
	L.VV.F. & C.	Low Water Full and Change	_	(priv)	priv., (Priv.)	Private	P 65, Q 70
	L.W.O.S.	Low Water Ordinary	_		Prod Well	Production Well	L 20
		Springs		prohib	Prohib ^d	Prohibited	L 20 —
М	m	Mud	J 2	proj	projd, Proj ^d	Projected	_
M	M.	Sea or Nautical Mile(s)	B 45, P 14	prom Prom.	promt, Prom ^t Promy, Prom ^y	Prominent Promontory	_
m		Medium	J 31		(prov), (prov ^l)	Provisional	_
m	m. mad, Md	Metre(s) Madrepore	B 41, P 13 J g	PSSA		Particularly Sensitive	N 22
Mag	Mag.	Magnetic	_	Pt.	Pt	Sea Area Point	_
	Magz, Mag ^z	Magazine	<u> </u>		Pt, pt	Pteropods	J x
Man	man, Mn	Manganese Manually Activated	J n P 56, R 2	Pyl		Pylon	D 26
		, , , , , , , , , , , , , , , , ,	,=				

Index of Abbreviations of Principal English Terms (Note: INT abbreviations are in bold type)

CURRENT FORM	OBSOLESCENT FORM(S)	TERM	REFERENCES
Q	QkFI, Qk.FI. Q ^r	Quick-flashing Quarter	P 10.6
	Qz, qrtz	Quartz	J f
R	rd	Red	J aj, P 11.2, Q 3
R. R	r R, Rº	River Rock Coast Radio Station	— J 9.1, K 15 S 15
Ra	11, 11	providing QTG service	
па	Ra (conspic),	Radar, Coast Radar Station Radar conspicuous object	M 31-32, S 1
	Ra. (conspic) Ra. Refl.	Radar Reflector	Q 10-11, S 4
Racon	rad, Rd	Radar Transponder Beacon Radiolaria	S 3.1-3.6 J w
Ramark	RC	Radar Beacon Non-directional Radio-	S 2 S 10
Rds.	RD, Dir.Ro.Bn R ^{ds}	beacon Directional Radiobeacon Roads, Roadstead	S 11
Ref Refl	Refl.	Refuge Retroreflecting material	Q 124, T 14
_	Rem ^{ble}	Remarkable	_
Rep Rf.	Repd, Rep ^d R ^f	Reported Reef	13
RG Rk.	R ^o D.F.	Radio Direction-Finding Station Rock	S 14
(R Lts)	(Red Lts)	Air Obstruction Lights (low intensity)	P 61.2
	Rly, Ry, R ^y R ^o B ⁿ	Railway Radiobeacon in general	D 13 S 10
RoRo	Ro-Ro R.S.	Roll-on Roll-off ferry terminal	F 50
Ru, (ru)	Ru.	Rocket station Ruins, (ruined)	D 8, E 25.2, F 33
	RW	Rotating Pattern Radiobeacon	S 12
S.	C+ Ct	Saint	
Q.	St, S ^t		-
S S	s S.	Sand South	 J 1 B 11
S S s	S	Sand South Second(s) of time	B 11 B 51, P 12
S S S SALM SBM	s S. sec, sec.	Sand South Second(s) of time Single Anchor Leg Mooring Single Buoy Mooring	B 11 B 51, P 12 L 12 L 16
S S SALM SBM SC	s S. sec, sec. S.C. Sc, sc	Sand South Second(s) of time Single Anchor Leg Mooring Single Buoy Mooring Sailing Club Scoriæ	B 11 B 51, P 12 L 12 L 16 — J I
S S SALM SBM SC	s S. sec, sec. S.C. Sc, sc Sc.	Sand South Second(s) of time Single Anchor Leg Mooring Single Buoy Mooring Sailing Club Scoriæ Scanner	B 11 B 51, P 12 L 12 L 16
S S SALM SBM SC Sc Sch SD	s S. sec, sec. S.C. Sc, sc	Sand South Second(s) of time Single Anchor Leg Mooring Single Buoy Mooring Sailing Club Scoriæ Scanner School Sailing Directions	B 11 B 51, P 12 L 12 L 16 — J I E 30.3 —
S S S SALM SBM SC Sch SCh SD SD Sd.	s S. S. Sec, sec. S.C. Sc, sc Sc. Sch. S.D. Sd	Sand South Second(s) of time Single Anchor Leg Mooring Single Buoy Mooring Sailing Club Scoriæ Scanner School Sailing Directions Sounding of doubtful depth Sound	B 11 B 51, P 12 L 12 L 16 — J I E 30.3 —
S S S S S S S S S S S S S S S S S S S	s S. S. Sec, sec. S.C. Sc, sc Sc. Sch. S.D. Sd S.E.	Sand South Second(s) of time Single Anchor Leg Mooring Single Buoy Mooring Sailing Club Scoriæ Scanner School Sailing Directions Sounding of doubtful depth Sound South-east	B 11 B 51, P 12 L 12 L 16 — J I E 30.3 —
S S S SALM SBM SC Sch SCh SD SD Sd. SE Sep	S. S. Sec, sec. S.C. Sc, sc Sc. Sch. S.D. Sd S.E. Sem, Sem.	Sand South Second(s) of time Single Anchor Leg Mooring Single Buoy Mooring Sailing Club Scoriæ Scanner School Sailing Directions Sounding of doubtful depth Sound South-east Semaphore September	B 11 B 51, P 12 L 12 L 16 — J I E 30.3 — I 2 — B 14 —
S S S SALM SBM SC Sch SD SD SD SD SSE Sep sf sg	s S. Sec, sec. S.C. Sc, sc Sc. Sch. S.D. Sd S.E. Sem, Sem.	Sand South Second(s) of time Single Anchor Leg Mooring Single Buoy Mooring Sailing Club Scoriæ Scanner School Sailing Directions Sounding of doubtful depth Sound South-east Semaphore September Stiff Seagrass	B 11 B 51, P 12 L 12 L 16
S S S SALM SBM SC Sch SDD Sd. SE Sep sf sg Sh Sh.	S. S. Sec, sec. S.C. Sc, sc Sc. Sch. S.D. Sd S.E. Sem, Sem.	Sand South Second(s) of time Single Anchor Leg Mooring Single Buoy Mooring Sailing Club Scoriæ Scanner School Sailing Directions Sounding of doubtful depth Sound South-east Semaphore September Stiff Seagrass Shells Shoal	B 11 B 51, P 12 L 12 L 16 — J I E 30.3 — — B 14 — — J 36 J 13.3 J 11
S S S SALM SBM SC Sch SD SD Sd. SE Sep sf Sg Sh	s S. Sec, sec. S.C. Sc, sc Sc. Sch. S.D. Sd S.E. Sem, Sem. stf sh	Sand South Second(s) of time Single Anchor Leg Mooring Single Buoy Mooring Sailing Club Scoriæ Scanner School Sailing Directions Sounding of doubtful depth Sound South-east Semaphore September Stiff Seagrass Shells Shoal Silt	B 11 B 51, P 12 L 12 L 16 — J I E 30.3 — B 14 — B 14 — J 36 J 13.3 J 11 — J 4
S S S SALM SBM SC Sch SDD Sd. SE Sep sf sg Sh Sh.	s S. S. Sec, sec. S.C. Sc, sc Sc. Sch. S.D. Sd S.E. Sem, Sem. stf sh Sig, Sig. Sig. sk, spk	Sand South Second(s) of time Single Anchor Leg Mooring Single Buoy Mooring Sailing Club Scoriæ Scanner School Sailing Directions Sounding of doubtful depth Sound South-east Semaphore September Stiff Seagrass Shells Shoal Silt Signal Speckled	B 11 B 51, P 12 L 12 L 16 — JI E 30.3 — I2 — J 36 J 13.3 J 11 — J 36 J 13.3 J 11 — J 1 2 3 3 3 3 3 3 3 3 4 3 4 3 4 3 4 3 4 3 4
S S S SALM SBM SC Sch SDD Sd. SE Sep sf sg Sh Sh.	s S. Sec, sec. S.C. Sc, sc Sc. Sch. S.D. Sd S.E. Sem, Sem. stf sh Sig, Sig. sk, spk sm SMt	Sand South Second(s) of time Single Anchor Leg Mooring Single Buoy Mooring Sailing Club Scoriæ Scanner School Sailing Directions Sounding of doubtful depth Sound South-east Semaphore September Stiff Seagrass Shells Shoal Silt Signal Speckled Small Seamount	B 11 B 51, P 12 L 12 L 16
S S S SALM SBM SC Sch SD SD Sd. SE Sep sf Sgh Sh. Si	s S. S. Sec, sec. S.C. Sc, sc Sc. Sch. S.D. Sd S.E. Sem, Sem. stf sh Sig, Sig, Sig, sk, spk sm SMt Sn, shin	Sand South Second(s) of time Single Anchor Leg Mooring Single Buoy Mooring Sailing Club Scoriæ Scanner School Sailing Directions Sounding of doubtful depth Sound South-east Semaphore September Stiff Seagrass Shells Shoal Silt Signal Speckled Small Seamount Shingle	B 11 B 51, P 12 L 12 L 16 JI E 30.3 — I 2 B 14 — J 36 J 13.3 J 11 — J 4 R 1, T 25.2 J ad J aa J d
S S S SALM SBM SC Sch SDD Sd. SE Sep sf sg Sh. Si	s S. Sec, sec. S.C. Sc, sc Sc. Sch. S.D. Sd S.E. Sem, Sem. Stf sh Sig, Sig. sk, spk sm SMt Sn, shin sft Sp.	Sand South Second(s) of time Single Anchor Leg Mooring Single Buoy Mooring Sailing Club Scoriæ Scanner School Sailing Directions Sounding of doubtful depth Sound South-east Semaphore September Stiff Seagrass Shells Shoal Silt Signal Speckled Small Seamount Shingle Soft Spire	B 11 B 51, P 12 L 12 L 16
S S S SALM SBM SC Sch SDD Sd. SE Sep sf sgSh Sh. Si SMt so Sp Sp Sp	s S. S. Sec, sec. S.C. Sc, sc Sc. Sch. S.D. Sd S.E. Sem, Sem. Stf sh Sig, Sig. sk, spk sm SMt Sn, shin sft	Sand South Second(s) of time Single Anchor Leg Mooring Single Buoy Mooring Sailing Club Scoriæ Scanner School Sailing Directions Sounding of doubtful depth Sound South-east Semaphore September Stiff Seagrass Shells Shoal Silt Signal Speckled Small Seamount Shingle Soft Spire Sponge Spring Tides	B 11 B 51, P 12 L 12 L 16 JI E 30.3 — — B 14 — — J 36 J 13.3 J 11 — J 4 R 1, T 25.2 J ad J aa J d J J 35 E 10.3 J r H 16
S S S SALM SBM SC Sch SD Sd. SE Sep sf sg Sh. Si SMt so Sp	s S. Sec, sec. S.C. Sc, sc Sc. Sch. S.D. Sd S.E. Sem, Sem. Stf sh Sig, Sig. sk, spk sm SMt Sn, shin sft Sp. Sp, Sp, Sp, Sp, Sp, Sp, Sp, Sp, Sp, Sp,	Sand South Second(s) of time Single Anchor Leg Mooring Single Buoy Mooring Sailing Club Scoriæ Scanner School Sailing Directions Sounding of doubtful depth Sound South-east Semaphore September Stiff Seagrass Shells Shoal Silt Signal Speckled Small Seamount Shingle Soft Spire Sponge Spring Tides Single Point Mooring	B 11 B 51, P 12 L 12 L 16
S S S SALM SBM SC Sch SDD Sd. SE Sep sf SSh. Si SMt so Sp SPM SS St	s S. S. Sec, sec. S.C. Sc, sc Sc. Sch. S.D. Sd S.E. Sem, Sem. stf sh Sig, Sig. sk, spk sm SMt Sn, shin sft Sp. Sp, sp Sp, Spr. Sig Sta, Sig Stn st	Sand South Second(s) of time Single Anchor Leg Mooring Single Buoy Mooring Sailing Club Scoriæ Scanner School Sailing Directions Sounding of doubtful depth Sound South-east Semaphore September Stiff Seagrass Shells Shoal Silt Signal Speckled Small Seamount Shingle Soft Spire Sponge Spring Tides Single Point Mooring Signal Station Stones	B 11 B 51, P 12 L 12 L 16 — JI E 30.3 — B 14 — J 36 J 13.3 J 11 — J 4 R 1, T 25.2 J ad J aa — J 35 E 10.3 J T 15.2
S S S SALM SBM SC Sch SDD Sd. SE Sep sf sg Sh. Si SMt so Sp SPM SS	s S. Sec, sec. S.C. Sc, sc Sc. Sch. S.D. Sd S.E. Sem, Sem. Stf sh Sig, Sig. sk, spk sm SMt Sn, shin sft Sp. Sp, sp Sp, Spr. Sig Sta, Sig Stn st St. Sta., Stn, Stn	Sand South Second(s) of time Single Anchor Leg Mooring Single Buoy Mooring Sailing Club Scoriæ Scanner School Sailing Directions Sounding of doubtful depth Sound South-east Semaphore September Stiff Seagrass Shells Shoal Silt Signal Speckled Small Seamount Shingle Soft Spire Sponge Spring Tides Single Point Mooring Signal Station Stones Street Station	B 11 B 51, P 12 L 12 L 16
S S S SALM SBM SC Sch SD Sd. SE Sep sf sgh Sh. Si SMt so Sp SPM SS St St	s S. Sec, sec. S.C. Sc, sc Sc. Sch. S.D. Sd S.E. Sem, Sem. Stf sh Sig, Sig. sk, spk sm SMt Sn, shin sft Sp. Sp, Spr. Sp, Spr. Sig Sta, Sig Stn st St.	Sand South Second(s) of time Single Anchor Leg Mooring Single Buoy Mooring Sailing Club Scoriæ Scanner School Sailing Directions Sounding of doubtful depth Sound South-east Semaphore September Stiff Seagrass Shells Shoal Silt Signal Speckled Small Seamount Spire Sponge Spire Sponge Spire Sponge Spiring Tides Single Point Mooring Signal Station Stones Street	B 11 B 51, P 12 L 12 L 16 — JI E 30.3 — B 14 — J 36 J 13.3 J 11 — J 4 R 1, T 25.2 J ad J aa — J d J J 35 E 10.3 J r H 16 L 12 T 20–36 J 5
S S S SALM SBM SC Sch SDD Sd. SE Sep sf sgSh Sh. Si SMt so Sp SPM SS St Sta Str. subm	s S. Sec, sec. S.C. Sc, sc Sc. Sch. S.D. Sd S.E. Sem, Sem. Stf sh Sig, Sig. sk, spk sm SMt Sn, shin sft Sp. Sp, Spr. Sp, Spr. Sig Sta, Sig Stn st St. Sta., Stn, Stn Stm.Sig.Stn. submd, Submd	Sand South Second(s) of time Single Anchor Leg Mooring Single Buoy Mooring Sailing Club Scoriæ Scanner School Sailing Directions Sounding of doubtful depth Sound South-east Semaphore September Stiff Seagrass Shells Shoal Silt Signal Speckled Small Seamount Shingle Soft Spire Sponge Spring Tides Single Point Mooring Signal Station Stornes Street Station Storm Signal Station Storm Signal Station Strait Submerged	B 11 B 51, P 12 L 12 L 16 — JI E 30.3 — B 14 — J 36 J 13.3 J 11 — J 4 R 1, T 25.2 J ad J 35 E 10.3 J r H 16 L 12 T 20-36 J 5 — D 13 T 28 — D 13
S S S SALM SBM SC Sch SD SD Sd. SE Sep sf SSh. Si SMt so Sp SPM SS St Sta Str.	s S. Sec, sec. S.C. Sc, sc Sc. Sch. S.D. Sd S.E. Sem, Sem. stf sh Sig, Sig. sk, spk sm SMt Sn, shin sft Sp. Sp, sp Sp, Spr. Sig Sta, Sig Stn st St. Sta., Stn, Stn Stm.Sig.Stn.	Sand South Second(s) of time Single Anchor Leg Mooring Single Buoy Mooring Sailing Club Scoriæ Scanner School Sailing Directions Sounding of doubtful depth Sound South-east Semaphore September Stiff Seagrass Shells Shoal Silt Signal Speckled Small Seamount Shingle Soft Spire Sponge Spring Tides Single Point Mooring Signal Station Stones Street Station Storm Signal Station Strait	B 11 B 51, P 12 L 12 L 16
S S S SALM SBM SC Sch SDD Sd. SE Sep sf sg Sh. Si SMt so Sp SPM SS St Sta Str. subm SW	s S. Sec, sec. S.C. Sc, sc Sc. Sch. S.D. Sd S.E. Sem, Sem. Stf sh Sig, Sig. sk, spk sm SMt Sn, shin sft Sp. Sp, Spr. Sp, Spr. Sig Sta, Sig Stn st St. Sta., Stn, Stn Stm.Sig.Stn. submd, Submd	Sand South Second(s) of time Single Anchor Leg Mooring Single Buoy Mooring Sailing Club Scoriæ Scanner School Sailing Directions Sounding of doubtful depth South-east Semaphore September Stiff Seagrass Shells Shoal Silt Signal Speckled Small Seamount Shingle Soft Spire Sponge Spring Tides Single Point Mooring Signal Station Stores Street Station Storm Signal Station Strait Submerged South-west Single Well Oil Production	B 11 B 51, P 12 L 12 L 16 — JI E 30.3 — B 14 — J 36 J 13.3 J 11 — J 4 R 1, T 25.2 J ad J 35 E 10.3 J r H 16 L 12 T 20-36 J 5 — D 13 T 28 — D 13

CURRENT FORM	OBSOLESCENT FORM(S)	TERM	REFERENCES
(T) t Tel (temp) Tr TSS TV Tr	t Tel. (tempy), (temp ^y) T.V. Tr	Tufa Temporary (NM) Ton, tonne, tonnage Elevation of top of trees Telephone, Telegraph Temporary Tower Traffic Separation Scheme Television Tower	J k — B 53, F 53 C 14 — P 54 E 10.2, E 20 — E 28-29
	(U)	Unwatched, unmanned	P 53
ULCC uncov unexam	uncov. unexamd. unexam ^d	(light) Ultra Large Crude Carrier Uncovers Unexamined	— К с I а
Unintens UQ UTC	Up ^r	Unintensified Upper Ultra quick-flashing Co-ordinated	P a P 22 P 10.8
UTM		Universal Time Universal Transverse	_
v V-AIS	vol	Mercator Volcanic Virtual AIS aid	J 37
Var	Va, V ^a Var ⁿ var	to navigation Villa Variation Varying	S18 — — —
Vel (vert) Vi	Vel. (vert ^l)	Velocity Vertically disposed Violet	— P 15 P 11.5
VLCC Vol. VQ	vis. VQkFI, V.Qk.FI	Visible Very Large Crude Carrier Volcano Very quick-flashing	 P 10.7
VTS	VQKI I, V.QK.I I	Vessel Traffic Service	_
W W	W. W	West White	B 12 J ae, P 11.1, Q 130.5
Water Tr Wd Well WGS	Water [™] wd	Water tower Weed Wellhead World Geodetic System	E 21 J 13.1 L 20, L 21 S 50
Whf Whis Wk, Wks	Wh ^f Whis. W ^k W/T	Wharf Whistle Wreck(s) Radio (Wireless/Telegraphy)	F 13 R 15 K 20-30
Υ	у	Yellow, amber, orange	J ai, P 11.8
YC	Y.C. y ^d , y ^{ds}	Yacht Club Yard(s)	Q 3 — —

See also Abbreviations of principal English and non-English terms, including International Abbreviations.

Abbreviations see p	rocoding pages
Above water wellhead	receding pages
Above water wellnead	L 23
Accommodation vessel	
Aerial, dish	
Aerial cableway	D 25
Aeronautical light	P 60
Aeronautical radiobeacon	S 16
Airfield, airport	D 17
Air obstruction light	
AIS	
Algae	
All-round light	
Alongside depth	I 11
Alternating light	P 10.11
Amber	
Anchor berth	
Anchorage	IN 10-14
Anchorage area	N 10-14
Anchoring prohibited	
Anchoring system	L 18
Annual change	
Anomaly, local magnetic	
Approximate	
depth contour	1.01
Leiste series	
height contour	
position	
Aquaculture	
Archipelagic Sea Lane	M 17
Area to be avoided	M 14. M 29
Area, restricted	N 2 1 N 20-2
Articulated Loading Column (ALC)	. IN Z. I, IN ZU-a
Artificial island	L 1Z
Astronomical tides	
Automatic fog signal	R 20-22
Automatic Identification System (AIS	
transmitter	S 17.1, S 17.2
Awash, rock	
Barge buoy	
Barrage, flood	
Barrel buoy	
Basalt	
Bascule bridge	
Baseline, Territorial Sea	N 42
Basin	F 27, F 28
Battery	E 34.3
Beacon Q	1-10. Q 80-126
buoyant, resilient	
Consol	
lattice	Q 111
leading	. IVI 1-2, Q 120
lighted	
radar	S 2-3
radio	S 10-17
refuge	Q 124
tower	
Bearing	B 62 P 8
Bell	
Benchmark	
Berm	F 1
Berth	
anchor	
dangerous cargo	
decianation	F 19.3
designation	F 19.3
visitors'	F 19.3 F 19 F 19.2. U a
designationvisitors'vacht	F 19.2, U a
yacht	F 19 F 19.2, U a F 11.2, U a
yacht	F 19 F 19.2, U a F 11.2, U a N 22
yacht	F 19 F 19.2, U a F 11.2, U a N 22 J af, Q 2
yacht	F 19 F 19.2, U a F 11.2, U a N 22 J af, Q 2 E 34.2
yacht Bird sanctuary Black Blockhouse Blue J ag	
yacht Bird sanctuary Black Blockhouse Blue Jag Board, painted	F 19.2, U a F 19.2, U a F 11.2, U a N 22 J af, Q 2 E 34.2 J, P 11.4, Q 5-a Q 102.2
yacht Bird sanctuary Black Blockhouse Blue J ag	F 19.2, U a F 19.2, U a F 11.2, U a N 22 J af, Q 2 E 34.2 J, P 11.4, Q 5-a Q 102.2
yacht Bird sanctuary Black Blockhouse Blue Board, painted Boarding place, pilot Boat	F 19.2, U a F 19.2, U a F 11.2, U a N 22 J af, Q 2 F 34.2 R 7 11.4, Q 5-a R 102.2
yacht Bird sanctuary Black Blockhouse Blue Board, painted Boarding place, pilot Boat	F 19.2, U a F 19.2, U a F 11.2, U a N 22 J af, Q 2 F 34.2 R 7 11.4, Q 5-a R 102.2
yacht Bird sanctuary Black Blockhouse Blue Jag Board, painted Boarding place, pilot Boat harbour	F 19.2, U a F 19.2, U a F 11.2, U a N 22 S 24.2 F 34.2 F 11.4, Q 5-a C 102.2 F 11.1
yacht Bird sanctuary Black Blockhouse Blue Jag Board, painted Boarding place, pilot Boat harbour park	F 19 F 19.2, U a F 19.2, U a F 11.2, U a N 22 J af, Q 2 F 34.2 J P 11.4, Q 5-a Q 102.2 T 1 F 11.1
yacht Bird sanctuary Black Blockhouse Blue Board, painted Boarding place, pilot Boat harbour park Bollard	F 19
yacht Bird sanctuary Black Blockhouse Blue Board, painted Boarding place, pilot Boat harbour park Bollard Boom	F 19 F 19.2, U a F 11.2, U a N 22 J af, Q 2 E 34.2 g, P 11.4, Q 5-a Q 102.2 T 1 U 0 F 29.1
yacht Bird sanctuary Black Blockhouse Blue Jag Board, painted Boarding place, pilot Boat harbour park Bollard Boom Border scale, linear	F 19. F 19. C U a F 19. C U a F 11. C U a F 34.2 J af, Q 2 E 34.2 J af, Q 5. E 34.2 T 1 U o F 11.1 U o F 29.1 A 15
yacht Bird sanctuary Black Blockhouse Blue Jac Board, painted Boarding place, pilot Boat harbour park Bollard Boom Border scale, linear Boulder	F 19 F 19.2, Ua F 19.2, Ua F 11.2, Ua N 22 J af, Q 2 S 42, P 11.4, Q 5-a Q 102.2 T 1 F 11.1 Uo F a F 29.1 A 15. J 9.2
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Farm, fish, marine K 48 Fast ice, limit N 60.1 Fathom B 48 Ferry Toute M 50, M 51 light P 50 terminal, RoRo F 50 Filao C 31.7 Fine J 30 Firing practice area N 30 beacon Q 125 buoy Q 50 Firing practice signal station T 36 Fish Cages, farm K 48 haven K 46 trap, weir K 44.2-45 Fishery limit N 45 Fishing harbour F 10 light P 50 prohibited N 21.1 stakes K 44.1 Fixed bridge D 20 & flashing light P 10.10 light P 10.10 light P 10.10 light P 10.10 light P 10.10 light P 10.10 light P 10.10 light
Farm, fish, marine K 48 Fast ice, limit N 60.1 Fathom B 48 Ferry M 50, M 51 route M 50, M 51 light P 50 terminal, RoRo F 50 Filao C 31.7 Fine J 30 Siring practice area N 30 beacon Q 125 buoy Q 50 Firing practice signal station T 36 Fish Cages, farm K 48 haven K 46 trap, weir K 44.2-45 Fishery limit N 45 Fishing harbour F 10 light P 50 prohibited N 21.1 stakes K 44.1 Fixed Dridge D 20 & flashing light P 10.10 light P 10.10 light P 10.10 light P 10.1 point B 22 Flagpole, flagstaff E 27, L 11
Farm, fish, marine K 48 Fast ice, limit N 60.1 Fathom B 48 Ferry M 50, M 51 light P 50 terminal, RoRo F 50 Filao C 31.7 Fine J 30 Firing practice area N 30 buoy Q 50 Firing practice signal station T 36 Fish Cages, farm K 48 haven K 46 trap, weir K 44.2-45 Fishery limit N 45 Fishing harbour F 10 light P 50 prohibited N 21. stakes K 44.1 Fixed bridge D 20 & flashing light P 10.10 point B 22 Flagpole, flagstaff E 27 Flare stack E 23, L 11 Flashing light P 10.4 Flashing light P 10.4 Flashing light P 10.4
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Farm, fish, marine K 48 Fast ice, limit N 60.1 Fathom B 48 Ferry M 50, M 51 light P 50 terminal, RoRo F 50 Filao C 31.7 Fine J 30 Firing practice area N 30 beacon Q 125 buoy Q 50 Firing practice signal station T 36 Fish Cages, farm K 48 haven K 44 trap, weir K 44.2-45 Fishery limit N 45 Fishing F 10 light P 50 prohibited N 21.1 stakes K 44.1 Fixed bridge D 20 & flashing light P 10.10 light P 10.10 light P 10.11 point B 22 Flare stack E 23, L 11 Flashing light P 10.4 Flat coast C 5 Floating
Farm, fish, marine K 48 Fast ice, limit N 60.1 Fathom B 48 Ferry route M 50, M 51 light P 50 terminal, RoRo F 50 Filao C 31.7 Fine J 30 Firing practice area N 30 beacon Q 125 buoy Q 50 Firing practice signal station T 36 Fish K 48 cages, farm K 46 trap, weir K 44.2-45 Fishery limit N 45 Fishing F 10 harbour F 10 light P 50 prohibited N 21.1 stakes K 44.1 Fixed D 20 & flashing light P 10.10 light P 10.10 point B 22 Flagpole, flagstaff E 27 Flare stack E 23, L 11 Flashing light P 10.4 Flat coast C 5
Farm, fish, marine K 48 Fast ice, limit N 60.1 Fathom B 48 Ferry M 50, M 51 light P 50 terminal, RoRo F 50 Filao C 31.7 Fine J 30 Firing practice area N 30 baccon Q 125 buoy Q 50 Firing practice signal station T 36 Fish K 48 cages, farm K 48 haven K 46 trap, weir K 44.2-45 Fishing harbour F 10 light P 50 prohibited N 21.1 stakes K 44.1 Fixed D 20 & flashing light P 10.10 light P 10.10 light P 10.10 light P 10.1 point B 22 Flagpole, flagstaff E 27 Flar stack E 23, L 11 Flashing light P 10.4 <
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Farm, fish, marine K 48 Fast ice, limit N 60.1 Fathom B 48 Ferry Toute M 50, M 51 light P 50 terminal, RoRo F 50 Filao C 31.7 Fine J 30 Siring practice area N 30 beacon Q 125 buoy Q 50 Firing practice signal station T 36 Fish Cages, farm K 44 haven K 44 trap, weir K 44.2-45 Fishery limit N 45 Fishing T 10 light P 50 prohibited N 21.1 stakes K 44.1 Fixed bridge D 20 & flashing light P 10.10 light P 10.10 light P 10.11 point B 22 Flare stack E 23, L 11 Flashing light P 10.4 Flat coast C 5

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Foot, feet	B 4
Footbridge	D 20.
Foraminifera	
Form lines	
Fort	E 3
Foul	K 3
FPSO	L I
FSO, FSU	Г <u>/</u>
Fuel station	
Gas pipeline	
Gasfield name	
Gate	F 4
Geographical positions	B 1-1
Glacial	Ja
Glacier	C 2
Glauconite	J
Globigerina	
Gong	R 1
Gravel	J
Graving dock	F 2
Green	Jah, P 11.3, Q
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Grey	J am, Q
Gridiron	F 2
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Cup	F
Gun	H I
Harbour	
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Hard	J 3
Headway	D 20-2
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Height	C 10-14, D 22-28, E 4-
Heliport, Helipad	D 1
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High Water	H 5-2
High Water Highest Astronomical Tide	
Hillocks	
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Hillocks Horizontal clearance colour bands lights Horn	
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Hillocks Horizontal clearance colour bands lights Horn Hospital Hour Hulk IALA Maritime Buoyage Sy Ice boom Ice front, limits	C D2 Q P1 R1 F62 B4 F3 stem Q13
Hillocks Horizontal clearance colour bands lights Horn Hospital Hour Hulk IALA Maritime Buoyage Sy Ice boom Ice front, limits Ice signal station	C D2 Q P1 R1 F62 B4 F3 stem Q13
Hillocks Horizontal clearance colour bands lights Horn Hospital Hour Hulk IALA Maritime Buoyage Sy Ice boom Ice front, limits Ice signal station Illuminated Imprint	C D2 Q Q P1 R1 F62 F3 stem Q13 F29 N6 T3 P66
Hillocks Horizontal clearance colour bands lights Horn Hospital Hour Hulk IALA Maritime Buoyage Sy Ice boom Ice front, limits Ice signal station Illuminated Imprint In line M1-2, P 20-2	C D2 Q P1 R1 R1 F62 B4 stem Q13 F29 N6 T3 P6
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Hillocks Horizontal clearance colour bands lights Horn Hospital Hour Hulk IALA Maritime Buoyage Sy Ice boom Ice front, limits Ice signal station Illuminated Imprint In line M1-2, P 20-2 Inadequately surveyed are Incineration area	C D2 Q Q P1 R1 R1 F62 B4 F3 stem Q13 F29 N6 T3 P6
Hillocks Horizontal clearance colour bands lights Horn Hospital Hour Hulk IALA Maritime Buoyage Sy Ice boom Ice front, limits Ice signal station Illuminated Imprint In line M1-2, P 20-2 Inadequately surveyed are Incineration area Increasing	C D2 Q P1 R1 R1 F62 F3 rstem Q13 F 29 N6 T3 A1, Q 120,121, S 3.5, S 1
Hillocks Horizontal clearance colour bands lights Horn Hospital Hour Hulk IALA Maritime Buoyage Sy Ice boom Ice front, limits Ice signal station Illuminated Imprint In line M1-2, P 20-2 Inadequately surveyed are Incineration area Increasing Inn	C D2 Q P1 R1 R1 F62 B4 F3 Stem Q13 F29 N6 T3 P6 A1, Q 120,121, S 3.5, S 1
Hillocks Horizontal clearance colour bands lights Horn Hospital Hour Hulk IALA Maritime Buoyage Sy Ice boom Ice front, limits Ice signal station Illuminated Imprint In line M1-2, P 20-2 Inadequately surveyed are Incineration area Increasing Inn Inshore Traffic Zone	C D2 Q P1 R1 R1 F62 B4 stem Q13 F29 N6 A1, Q 120,121, S 3.5, S 1 B6 B6 B6 U M 14, M 2
Hillocks Horizontal clearance colour bands lights Horn Hospital Hour Hulk IALA Maritime Buoyage Sy Ice boom Ice front, limits Ice signal station Illuminated Imprint In line M1-2, P 20-2 Inadequately surveyed are Incineration area Increasing Inn Inshore Traffic Zone	C D2 Q P1 R1 R1 F62 B4 stem Q13 F29 N6 A1, Q 120,121, S 3.5, S 1 B6 B6 B6 U M 14, M 2
Hillocks Horizontal clearance colour bands lights Horn Hospital Hour Hulk IALA Maritime Buoyage Sy Ice boom Ice front, limits Ice signal station Illuminated Imprint In line M1-2, P 20-2 Inadequately surveyed are Incineration area Increasing Inn Inshore Traffic Zone Installations, offshore Intake	C D2 Q Q P1 R1 R1 F62 B4 Stem Q13 F29 N6 T3 A1, Q 120,121, S 3.5, S 1 P6 U M 14, M 2
Hillocks Horizontal clearance colour bands lights Horn Hospital Hour Hulk IALA Maritime Buoyage Sy Ice boom Ice front, limits Ice signal station Illuminated Imprint In line M1-2, P 20-2 Inadequately surveyed are Incineration area Increasing Inn Inshore Traffic Zone Installations, offshore Intensified sector	C D2 Q P1 R1 R1 F62 B4 F3 stem Q13 F29 N6 T3 P6 A1, Q 120,121, S 3.5, S 1 B4 U M 14, M 2
Hillocks Horizontal clearance colour bands lights Horn Hospital Hour Hulk IALA Maritime Buoyage Sy Ice boom Ice front, limits Ice signal station Illuminated Imprint In line M1-2, P 20-2 Inadequately surveyed are Incineration area Increasing Inn Inshore Traffic Zone Installations, offshore Intensified sector Intermittent river or lake	C D2 Q P1 R1 R1 F62 B4 F3 stem Q13 F29 N6 T3 P6 A1, Q 120,121, S 3.5, S 1 B4 U M 14, M 2
Hillocks Horizontal clearance colour bands lights Horn Hospital Hour Hulk IALA Maritime Buoyage Sy Ice boom Ice front, limits Ice signal station Illuminated Imprint In line M1-2, P 20-2 Inadequately surveyed are Incineration area Increasing Inn Inshore Traffic Zone Installations, offshore Intermittent river or lake International	C D2 Q P1 R1 R1 F62 B4 stem Q13 F29 N6 T3 P6 A .1, Q 120,121, S 3.5, S 1 B6 B6 U M 14, M2 C 2
Hillocks Horizontal clearance colour bands lights Horn Hospital Hour Hulk IALA Maritime Buoyage Sy Ice boom Ice front, limits Ice signal station Illuminated Imprint In line M1-2, P 20-2 Inadequately surveyed are Increasing Inn Inshore Traffic Zone Installations, offshore Intake Internsified sector Intermittent river or lake International boundary & maritime b	C D2 Q P1 R1 R1 F62 B4 Stem Q13 F29 N6 T3 P6 11, Q 120,121, S 3.5, S 1 B6 U M 14, M 2 C 2 Oundary N 40, N 4
Hillocks Horizontal clearance colour bands lights Horn Hospital Hour Hulk IALA Maritime Buoyage Sy Ice boom Ice front, limits Ice signal station Illuminated Imprint In line M1-2, P 20-2 Inadequately surveyed are Incineration area Increasing Inn Inshore Traffic Zone Installations, offshore Intake Intensified sector Intermittent river or lake International boundary & maritime b chart number	C D2
Hillocks Horizontal clearance colour bands lights Horn Hospital Hour Hulk IALA Maritime Buoyage Sy Ice boom Ice front, limits Ice signal station Illuminated Imprint In line M1-2, P 20-2 Inadequately surveyed are Incineration area Increasing Inn Inshore Traffic Zone Installations, offshore Intake Intensified sector Intermittent river or lake International boundary & maritime b chart number Meridian (Greenwich)	C D2 Q P1 R1 R1 F62 B4 F3 stem Q13 F29 N6 A1, Q 120,121, S 3.5, S 1 B6 U M 14, M 2 Oundary N 40, N 4
Hillocks Horizontal clearance colour bands lights Horn Hospital Hour Hulk IALA Maritime Buoyage Sy lce boom lce front, limits lce signal station Illuminated Imprint In line M1-2, P 20-2 Inadequately surveyed are Increasing Inn Inshore Traffic Zone Installations, offshore Intermittent river or lake Internsified sector Intermittent river or lake International boundary & maritime b chart number Meridian (Greenwich) Nautical Mile	C D2 Q P1 R1 R1 R1 F62 B4 Stem Q13 F29 N6 T3 P6 A 1, Q 120,121, S 3.5, S 1 B6 U M 14, M 2 L 41 P 4 C 2 oundary N 40, N 4
Hillocks Horizontal clearance colour bands lights Horn Hospital Hour Hulk IALA Maritime Buoyage Sy Ice boom Ice front, limits Ice signal station Illuminated Imprint In line M1-2, P 20-2 Inadequately surveyed are Incineration area Increasing Inn Inshore Traffic Zone Installations, offshore Intake Internsified sector Intermittent river or lake International boundary & maritime b chart number Meridian (Greenwich) Nautical Mile Interruted light Intertidal area	C D2
Hillocks Horizontal clearance colour bands lights Horn Hospital Hour Hulk IALA Maritime Buoyage Sy Ice boom Ice front, limits Ice signal station Illuminated Imprint In line M1-2, P 20-2 Inadequately surveyed are Incineration area Increasing Inn Inshore Traffic Zone Installations, offshore Intake Internsified sector Intermittent river or lake International boundary & maritime b chart number Meridian (Greenwich) Nautical Mile Interruted light Intertidal area	C D2
Hillocks Horizontal clearance colour bands lights Horn Hospital Hour Hulk IALA Maritime Buoyage Sy Ice boom Ice front, limits Ice signal station Illuminated Imprint In line M1-2, P 20-2 Inadequately surveyed are Incineration area Increasing Inn Inshore Traffic Zone Installations, offshore Intake Internitient river or lake Internitient river or lake International boundary & maritime b chart number Meridian (Greenwich) Nautical Mile Interrupted light Interrupted light Intertidal area Island, artificial	C D2 Q P1 R1 R1 R1 F62 B4 Stem Q13 F29 N6 T3 P6 A 1, Q 120,121, S 3.5, S 1 B6 U M 14, M2 C 2 oundary N 40, N 4 B4
Hillocks Horizontal clearance colour bands lights Horn Hospital Hour Hulk IALA Maritime Buoyage Sy Ice boom Ice front, limits Ice signal station Illuminated Imprint In line M1-2, P 20-2 Inadequately surveyed are Incineration area Increasing Inn Inshore Traffic Zone Installations, offshore Intake International boundary & maritime b chart number Meridian (Greenwich) Nautical Mile Interrupted light Intertidal area Island, artificial Islet Issogonal	C D2
Hillocks Horizontal clearance colour bands lights Horn Hospital Hour Hulk IALA Maritime Buoyage Sy Ice boom Ice front, limits Ice signal station Illuminated Imprint In line M1-2, P 20-2 Inadequately surveyed are Incineration area Increasing Inn Inshore Traffic Zone Installations, offshore Intake Intensified sector Intermittent river or lake International boundary & maritime b chart number Meridian (Greenwich) Nautical Mile Interrupted light Intertidal area Island, artificial Islet Isogonal Isoglated danger mark	C D2
Hillocks Horizontal clearance colour bands lights Horn Hospital Hour Hulk IALA Maritime Buoyage Sy Ice boom Lee front, limits Ice signal station Illuminated Imprint In line M1-2, P 20-2 Inadequately surveyed are Incineration area Increasing Inn Inshore Traffic Zone Installations, offshore Intake Internsified sector Intermittent river or lake International boundary & maritime b chart number Meridian (Greenwich) Nautical Mile Interrupted light Intertidal area Island, artificial Islet Isogonal Isolated danger mark Isophase light	C D2
Hillocks Horizontal clearance colour bands lights Horn Hospital Hour Hulk IALA Maritime Buoyage Sy Ice boom Ice front, limits Ice signal station Illuminated Imprint In line M1-2, P 20-2 Inadequately surveyed are Incineration area Increasing Inn Inshore Traffic Zone Installations, offshore Intake Internitient river or lake Internitient river or lake International boundary & maritime b chart number Meridian (Greenwich) Nautical Mile Interrupted light Intertidal area Island, artificial Island, artificial Island, artificial Isolated danger mark Isophase light Jetty Jetty	C D2 Q P1 R1 R1 R1 R62 B4 stem Q13 F29 N6 T3 P6 AA 1, Q 120,121, S 3.5, S 1 B6 U U M 14, M2 C 2 oundary N 40, N 4 P1 J 20-2 L 1 K1 B7 Q 130 P 100 F1
Hillocks Horizontal clearance colour bands lights Horn Hospital Hour Hulk IALA Maritime Buoyage Sy Ice boom Lee front, limits Ice signal station Illuminated Imprint In line M1-2, P 20-2 Inadequately surveyed are Incineration area Increasing Inn Inshore Traffic Zone Installations, offshore Intake Internsified sector Intermittent river or lake International boundary & maritime b chart number Meridian (Greenwich) Nautical Mile Interrupted light Intertidal area Island, artificial Islet Isogonal Isolated danger mark Isophase light	C D2 Q P1 R1 R1 R1 R62 B4 stem Q13 F29 N6 T3 P6 AA 1, Q 120,121, S 3.5, S 1 B6 U U M 14, M2 C 2 oundary N 40, N 4 P1 J 20-2 L 1 K1 B7 Q 130 P 100 F1
Hillocks Horizontal clearance colour bands lights Horn Hospital Hour Hulk IALA Maritime Buoyage Sy Ice boom Ice front, limits Ice signal station Illuminated Imprint In line M1-2, P 20-2 Inadequately surveyed are Incineration area Increasing Inn Inshore Traffic Zone Installations, offshore Intake International boundary & maritime b chart number Meridian (Greenwich) Nautical Mile Interrupted light Intertidal area Island, artificial Islet Isogonal Isolated danger mark Isophase light Jetty Joss house	C D2
Hillocks Horizontal clearance colour bands lights Horn Hospital Hour Hulk IALA Maritime Buoyage Sy Ice boom Loe front, limits Ice signal station Illuminated Imprint In line M1-2, P 20-2 Inadequately surveyed are Incineration area Increasing Inn Inshore Traffic Zone Installations, offshore Intake Intensified sector Intermittent river or lake International boundary & maritime b chart number Meridian (Greenwich) Nautical Mile Interrupted light Intertidal area Island, artificial Islet Isogonal Isolated danger mark Isophase light Jetty Joss house Kelp	C D2
Hillocks Horizontal clearance colour bands lights Horn Hospital Hour Hulk IALA Maritime Buoyage Sy Ice boom Ice front, limits Ice signal station Illuminated Imprint In line M1-2, P 20-2 Inadequately surveyed are Incineration area Increasing Inn Inshore Traffic Zone Installations, offshore Intake International boundary & maritime b chart number Meridian (Greenwich) Nautical Mile Interrupted light Intertidal area Island, artificial Islet Isogonal Isolated danger mark Isophase light Jetty Joss house	C D2 Q P1 R1 F62 B4 F3 Stem Q13 F29 N6 A P6 A N6 B6 B6 U M14, M2 L41 P4 C2 Oundary N40, N4 A B6 B6 B6 U M14, M2 L41 P4 A B7 B7 B7 B7 B7 B7 B7 B7 B7 B7 B7 B7 B7 B7 B7

Ladder	C 21 22
LANBY	
Land survey datum	
Landing	
beacon (cable)	
site (helicopter)	D 10
stairs, steps	
Landmarks	
Lane, submarine transit	
Large	
Large Automatic Navigational Buoy	
Lateral marks (IALA System)	Q 130.1
Latitude	B 1
Lattice beacon	Q 111
Laundrette	
Lava	
Layered seabed	
Leading	0 12.1
beacons Q 102.2, Q	120 535
lights P 20,	
line	
Least depth in narrow channel	
Leisure Facilities	
Levee	F _{.1}
Lifeboat mooring	T 13
Lifeboat station	T 12
Lifting bridge	D 23.3
Light (in colour)	J an
Lights	
aeronautical	
air obstruction	
all round	
character	
colour	
description	
direction	
disposition	
elevation	
extinguished	P 5.5
in line	P 21
leading P 20,	, S 3.5, S11
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Moiré effect	D 0 4
	P 31
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off chart limits	P8
on landmarks	P8
on landmarks	P 8 P 7 P 12
on landmarks period range	P 8 P 7 P 12 P 14
on landmarks period range sector	P 8 P 7 P 12 P 14 P 40-a
on landmarks period range sector special	P 8 P 7 P 12 P 14 P 40-a P 60-66
on landmarks period range sector special structure	P 8 P 7 P 12 P 14 P 40-a P 60-66
on landmarks period range sector special structure subsidiary	P 8 P 7 P 12 P 14 P 40-a P 60-66 P 1-7 P 42
on landmarks period range sector special structure subsidiary temporary	P 8 P 7 P 12 P 14 P 40-a P 60-66 P 1-7 P 42 P 50-55
on landmarks period range sector special structure subsidiary temporary times of exhibition	P 8 P 7 P 12 P 14 P 16 P 16 P 16 P 16 P 16 P 16 P 16
on landmarks period range sector special structure subsidiary temporary times of exhibition Light float	P 8 P 7 P 12 P 14 P 14 P 16 P 16 P 16 P 16 P 16 P 16
on landmarks period range sector special structure subsidiary temporary times of exhibition Light float Light vessel	P 8 P 7 P 12 P 14 P 14 P 16 P 16 P 16 P 16 P 16 P 16
on landmarks period range sector special structure subsidiary temporary times of exhibition Light float Light vessel Lighted	P 8 P 7 P 12 P 14 P 40-a P 60-66 P 1-7 P 50-55 P 50-55 Q 30, 31
on landmarks period range sector special structure subsidiary temporary times of exhibition Light float Light vessel Lighted beacon	P 8 P 7 P 12 P 10-a P 10-a P 60-66 P 1-7 P 42 P 50-55 P 54 Q 30, 31 Q 32
on landmarks period range sector special structure subsidiary temporary times of exhibition Light float Light vessel Lighted beacon beacon tower	P 8 P 7 P 12 P 10-8 P 10-8 P 10-8 P 10-8 P 10-7 P 12 P 50-55 P 54 Q 30, 31 Q 32 P 3-5 P 3
on landmarks period range sector special structure subsidiary temporary times of exhibition Light float Light vessel Lighted beacon beacon tower marks	P8 P7 P7 P1 P1 P1 P1 P1 P1 P1 P1 P1 P1 P1 P1 P1
on landmarks period range sector special structure subsidiary temporary times of exhibition Light float Light vessel Lighted beacon beacon tower marks mooring buoy	P8 P7 P7 P40-a P40-a P60-66 P50-55 P54 Q30, 31 Q32 P3-5 Q41 P40-6 Q41
on landmarks period range sector special structure subsidiary temporary times of exhibition Light float Light vessel Lighted beacon beacon tower marks mooring buoy offshore platform	P 8 P 7 P 12 P 10-8 P 10-8 P 10-8 P 10-8 P 10-7 P 10-7 P 10-7 P 10-7 P 20 P 50-55 P 54 Q 30, 31 Q 32 P 3-5 P 3 Q 7-8 Q 7-8 Q 41
on landmarks period range sector special structure subsidiary temporary times of exhibition Light float Light vessel Lighted beacon beacon tower marks mooring buoy offshore platform wreck	P 8 P 7 P 12 P 10-8 P 10-8 P 10-8 P 10-8 P 10-7 P 1
on landmarks period range sector special structure subsidiary temporary times of exhibition Light float Light vessel Lighted beacon beacon tower marks mooring buoy offshore platform	P 8 P 7 P 12 P 10-8 P 10-8 P 10-8 P 10-8 P 10-7 P 1
on landmarks period range sector special structure subsidiary temporary times of exhibition Light float Light vessel Lighted beacon beacon tower marks mooring buoy offshore platform wreck Lighthouse	P 8 P 7 P 12 P 10-8 P 10-8 P 10-8 P 10-7 P 12 P 50-55 P 54 Q 30, 31 Q 32 P 3-5 P 3 Q 7-8 Q 41 P 2 Kf
on landmarks period range sector special structure subsidiary temporary times of exhibition Light float Light vessel Lighted beacon beacon tower marks mooring buoy offshore platform wreck Lightinge	P8 P7 P7 P40-a P P40-a P P40-a P P50-55 P P54 P P30-55 P P54 P P50-55 P P54 P P50-55 P P50-55 P P3-5
on landmarks period range sector special structure subsidiary temporary times of exhibition Light float Light vessel Lighted beacon beacon tower marks mooring buoy offshore platform wreck Lighthouse Limits danger line	P8 P7 P12 P40-a P60-66 P50-55 P54 Q30,31 Q32 P3-5 Q7-8 Q41 P2 Kf
on landmarks period range sector special structure subsidiary temporary times of exhibition Light float Light vessel Lighted beacon beacon tower marks mooring buoy offshore platform wreck Lighthouse Limits danger line dredged area	P8 P7 P1 P1 P1 P1 P1 P1 P1 P1 P1 P1 P1 P1 P1
on landmarks period range sector special structure subsidiary temporary times of exhibition Light float Light vessel Lighted beacon beacon tower marks mooring buoy offshore platform wreck Lighthouse Limits danger line dredged area restricted area M 14, N	P8 P7 P12 P10 P10 P10 P10 P10 P10 P10 P10 P10 P10
on landmarks period range sector special structure subsidiary temporary times of exhibition Light float Light vessel Lighted beacon beacon tower marks mooring buoy offshore platform wreck Lighthouse Limits danger line dredged area restricted area routeing measure	P8 P7 P1 P1 P40-a P60-66 P1-7 P50-55 P54 Q30,31 Q7-8 Q7-8 P2 P50-55 P3-5 P42 P50-55 P54 P3-5 P3-5 P3-5 P3-5 P3-7 P3-7 P3-7 P3-7 P3-7 P3-7 P3-7 P3-7
on landmarks period range sector special structure subsidiary temporary times of exhibition Light float Light vessel Lighted beacon beacon tower marks mooring buoy offshore platform wreck Lighthouse Limits danger line dredged area restricted area routeing measure unsurveyed area	P8 P7 P12 P40-a P60-66 P50-55 P54 Q30,31 Q32 P3-5 Q7-8 Q41 P2 Kf P1-7 P1-7 P1-7 P3-5 P3-5 P3-5 P3-5 P3-5 P3-5 P3-5 P3-5
on landmarks period range sector special structure subsidiary temporary times of exhibition Light float Light vessel Lighted beacon beacon tower marks mooring buoy offshore platform wreck Lighthouse Limits danger line dredged area restricted area routeing measure unsurveyed area Linear scale	P 8 P 7 P 7 P 12 P 40-a P 60-66 P 1-7 P 50-55 P 54 Q 30, 31 Q 32 P 3-5 P 3-5 P 3 C 7-8 C 41 P 10 P 120-21 N 2, N 20-a M 15 L 125 A 14, 15
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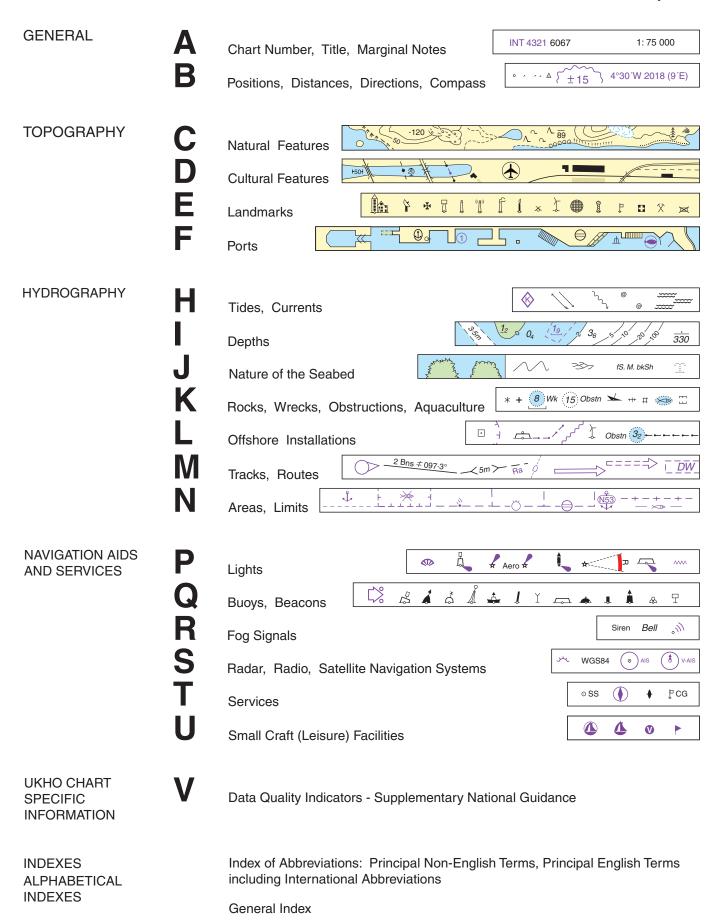


SYMBOLS and ABBREVIATIONS used on Paper Charts



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Selection of Symbols



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