S-57 Appendix A

Annex B - Attributes/Object Classes Cross Reference

Page intentionally left blank

Important notice

All "Clarifications" in the latest Edition of the Maintenance Document must be taken into account before making use of this document.

Edition 3.1 November 2000 S-57 Appendix A - Annex B

Introduction

A standardized form is used to list those object classes that use a given attribute.

Each form gives the attribute name, acronym and code and the names, acronyms and codes of the object classes that use the attribute.

1. Feature and Meta Object Attributes

Attribute: Agency responsible for production			
Acronym: AGENCY			Code: 1
Production information	M_PROD	307	
Attribute: Shape of beacon			
Acronym: BCNSHP			Code: 2
Beacon, cardinal Beacon, isolated danger Beacon, lateral Beacon, safe water Beacon, special purpose/general	BCNCAR BCNISD BCNLAT BCNSAW BCNSPP	5 6 7 8 9	
Attribute: Shape of building			
Acronym: BUISHP			Code: 3
Building, single Silo/tank	BUISGL SILTNK	12 125	
Attribute: Shape of buoy			

Acronym: CATACH

Acronym: BOYSHP			Code: 4
Buoy, cardinal Buoy, installation Buoy, isolated danger Buoy, lateral Buoy, safe water Buoy, special purpose/general Mooring/warping facility	BOYCAR BOYINB BOYISD BOYLAT BOYSAW BOYSPP MORFAC	14 15 16 17 18 19 84	
Attribute: Buried depth			
Acronym: BURDEP			Code: 5
Cable, submarine Pipeline, submarine/on land Tunnel	CBLSUB PIPSOL TUNNEL	22 94 151	
Attribute: Call sign			
Acronym: CALSGN			Code: 6
Radio station	RDOSTA	105	
Attribute: Category of airport area			
Acronym: CATAIR			Code: 7
Airport area	AIRARE	2	
Attribute: Category of anchorage			

Code: 8

Attributes/Object Classes Cross Reference

B.3

Anchor berth ACHBRT 3
Anchorage area ACHARE 4

Attribute: Category of bridge

Acronym: CATBRG Code: 9

Bridge BRIDGE 11

Attribute: Category of built-up area

Acronym: CATBUA Code: 10

Built-up area BUAARE 13

Attribute: Category of cable

Acronym: CATCBL Code: 11

Cable areaCBLARE20Cable, overheadCBLOHD21Cable, submarineCBLSUB22

Attribute: Category of canal

Acronym: CATCAN Code: 12

Canal CANALS 23

B.4

Attribute: Category of cardinal mark

Acronym: CATCAM Code: 13

Beacon, cardinal BCNCAR 5

Attribute: Category of checkpoint

Buoy, cardinal BOYCAR 14

Acronym: CATCHP Code: 14

Checkpoint CHKPNT 28

Attribute: Category of coastline

Acronym: CATCOA Code: 15

Attribute: Category of control point

Coastline COALNE 30

Acronym: CATCTR Code: 16

Control point CTRPNT 33

Attribute: Category of conveyor

Acronym: CATCON Code: 17

Conveyor CONVYR 34

Attributes/Object Classes Cross Reference

B.5

Attribute: Category of coverage Acronym: CATCOV Code: 18 Coverage M_COVR 302 Attribute: **Category of crane** Acronym: CATCRN Code: 19 Crane CRANES 35 Attribute: Category of dam Acronym: CATDAM Code: 20 Dam DAMCON 38 Attribute: **Category of distance mark** Acronym: CATDIS Code: 21 DISMAR 44 Distance mark Attribute: Category of dock

Acronym: CATDOC Code: 22

Dock area DOCARE 45

B.6

Attribute:	Category of dumping ground

Acronym: CATDPG Code: 23

Dumping ground DMPGRD 48

Attribute: Category of fence

Acronym: CATFNC Code: 24

Fenceline FNCLNE 52

Attribute: Category of ferry

Acronym: CATFRY Code: 25

Ferry route FERYRT 53

Attribute: Category of fishing facility

Acronym: CATFIF Code: 26

Fishing facility FSHFAC 55

Attribute: Category of fog signal

Acronym: CATFOG Code: 27

Fog signal FOGSIG 58

Code: **32**

66

Attribute:	Category of fortified structure			
Acronym: CAT	FOR			Code: 2
Fortifie	ed structure	FORSTC	59	
Attribute:	Category of gate			
Acronym: CAT	GAT			Code: 2
Gate		GATCON	61	
Attribute:	Category of harbour facility			
Acronym: CAT	HAF			Code: 3
Harbou	ur facility	HRBFAC	64	
Attribute:	Category of hulk			
Acronym: CAT	HLK			Code: \$
Hulk		HULKES	65	
Attribute:	Category of ice			

ICEARE

Acronym: CATICE

Ice area

B.8

Attribute: Category of installation buoy

Acronym: CATINB Code: 33

Buoy, installation BOYINB 15

Attribute: Category of land region

Acronym: CATLND Code: 34

Land region LNDRGN 73

Attribute: Category of landmark

Acronym: CATLMK Code: 35

Landmark LNDMRK 74

Attribute: Category of lateral mark

Acronym: CATLAM Code: 36

Beacon, lateral BCNLAT 7
Buoy, lateral BOYLAT 17

Attribute: Category of light

Acronym: CATLIT Code: 37

Light LIGHTS 75

Code: **42**

86

Attribute:	Category of marine farm/culture			
cronym: CA	тмға			Code: 3
Marin	e farm/culture	MARCUL	82	
Attribute:	Category of military practice area			
.cronym: CA	ТМРА			Code: 3
Milita	ry practice area	MIPARE	83	
Attribute:	Category of mooring/warping facility			
.cronym: CA	TMOR			Code: 4
Moori	ng/warping facility	MORFAC	84	
Attribute:	Category of navigation line			
.cronym: CA	TNAV			Code:
Navig	ation line	NAVLNE	85	
Attribute:	Category of obstruction			

OBSTRN

Acronym: CATOBS

Obstruction

Attribute:	Category of offshore platform			
Acronym: CAT	OFP			Code: 43
Offsho	ore platform	OFSPLF	87	
Attribute:	Category of oil barrier			
Acronym: CAT	OLB			Code: 44
Oil bar	rier	OILBAR	89	
Attribute:	Category of pile			
Acronym: CAT	PLE			Code: 45
Pile		PILPNT	90	
Attribute:	Category of pilot boarding place			
Acronym: CAT	'PIL			Code: 46
Pilot b	oarding place	PILBOP	91	
Attribute:	Category of pipeline/pipe			
1				

Acronym: CATPIP Code: 47

Pipeline areaPIPARE92Pipeline, overheadPIPOHD93Pipeline, submarine/on landPIPSOL94

Code: **52**

103

Attribute:	Category of production area			
cronym: CAT	PRA			Code: 4
Offsho Produ	ore production area ction/storage area	OSPARE PRDARE	88 97	
Attribute:	Category of pylon			
cronym: CAT	PYL			Code: 4
Pylon/bridge support		PYLONS	98	
Attribute:	Category of quality of data			
.cronym: CAT	QUA			Code:
Quality of data		M_QUAL	308	
Attribute:	Category of radar station			
.cronym: CAT	RAS			Code: \$
Radar station		RADSTA	102	
Attribute:	Category of radar transponder beace	on		

RTPBCN

Acronym: CATRTB

Radar transponder beacon

Attribute:	Category of radio station	

Acronym: CATROS Code: 53

Radio station RDOSTA 105

Attribute: Category of recommended track

Acronym: CATTRK Code: 54

Deep water route centerlineDWRTCL40Recommended route centerlineRCRTCL108Recommended trackRECTRC109Two-way route partTWRTPT152

Attribute: Category of rescue station

Acronym: CATRSC Code: 55

Rescue station RSCSTA 111

Attribute: Category of restricted area

Acronym: CATREA Code: 56

Restricted area RESARE 112

Code: **61**

123

Category of road			
OD O			Code: 57
ank	RIVBNK ROADWY	——————————————————————————————————————	
Category of runway			
JN			Code: 58
	RUNWAY	117	
Category of sea area			
Ξ A			Code: 59
/named water area	SEAARE	119	
Category of shoreline construction			
.c			Code: 60
Construction	SLCONS	122	
Category of signal station, traffic			
	Category of runway UN Category of sea area A /named water area Category of shoreline construction C e Construction	Category of runway Category of sea area EA //named water area SEAARE Category of shoreline construction	Category of runway RIVBNK 115 ROADWY 116 RUNWAY 117 Category of sea area EA /named water area SEAARE 119 Category of shoreline construction C e Construction SLCONS 122

SISTAT

Acronym: CATSIT

Signal station, traffic

B.14	Attributes/Object Classes Cro	ss Reference		
Attribute:	Category of signal station, warning			
Acronym: CA	TSIW			Code: 62
Signa	al station, warning	SISTAW	124	
Attribute:	Category of silo/tank			
Acronym: CA	TSIL			Code: 63
Silo/ta	ank	SILTNK	125	
Attribute:	Category of slope			
Acronym: CA	TSLO			Code: 64
	e topline ng ground	SLOTOP SLOGRD	126 127	
Attribute:	Category of small craft facility			
Acronym: CA	TSCF			Code: 65
Small	craft facility	SMCFAC	128	

Attribute: Category of special purpose mark

Acronym: CATSPM Code: **66**

Beacon, special purpose/general BCNSPP 9 Buoy, special purpose/general BOYSPP 19 Daymark DAYMAR 39

Attribute: Category of Tidal stream

Acronym: CAT_TS Code: 188

Tidal stream - flood/ebb TS_FEB 160

Attribute: Category of Traffic Separation Scheme

Acronym: CATTSS Code: 67

Inshore traffic zone	ISTZNE	68
Traffic Separation Line	TSELNE	145
Traffic Separation Scheme - Boundary	TSSBND	146
Traffic Separation Scheme - Crossing	TSSCRS	147
Traffic Separation Scheme - Lane part	TSSLPT	148
Traffic Separation Scheme - Roundabout	TSSRON	149
Traffic Separation Zone	TSEZNE	150

Attribute: Category of vegetation

Acronym: CATVEG Code: 68

Vegetation area VEGATN 155

Attribute: Category of water turbulence

Acronym: CATWAT Code: 69

Water turbulence WATTUR 156

B.16 Attributes/Object Classes Cross Reference

Attribute: Category of Weed

Acronym: **CATWED** Code: **70**

Weed/Kelp WEDKLP 158

Attribute: Category of wreck

Acronym: CATWRK Code: 71

Wrecks WRECKS 159

Attribute:	Category of zone of confidence in data

Acronym: CATZOC Code: 72

Quality of data M_QUAL 308

Attribute: Character spacing

Acronym: **\$SPACE** Code: **73**

Texts \$TEXTS 504

Attribute: Character specification

Acronym: **\$CHARS** Code: **74**

Texts \$TEXTS 504

Attribute: Colour

Acronym: COLOUR Code: 75

Beacon, cardinal	BCNCAR	5
Beacon, isolated danger	BCNISD	6
Beacon, lateral	BCNLAT	7
Beacon, safe water	BCNSAW	8
Beacon, special purpose/general	BCNSPP	9
Bridge	BRIDGE	11
Building, single	BUISGL	12
Buoy, cardinal	BOYCAR	14
Buoy, installation	BOYINB	15
Buoy, isolated danger	BOYISD	16
Buoy, lateral	BOYLAT	17
Buoy, safe water	BOYSAW	18
Buoy, special purpose/general	BOYSPP	19
Coastline	COALNE	30
Conveyor	CONVYR	34

Crane	CRANES	35
Dam	DAMCON	38
Daymark	DAYMAR	39
Fenceline	FNCLNE	52
Floating dock	FLODOC	57
Hulk	HULKES	65
Landmark	LNDMRK	74
Light	LIGHTS	75
Light-float	LITFLT	76
Light-vessel	LITVES	77
Mooring/warping facility	MORFAC	84
Offshore platform	OFSPLF	87
Pile	PILPNT	90
Pylon/bridge support	PYLONS	98
Retro-reflector	RETRFL	113
Seabed area	SBDARE	121
Shoreline Construction	SLCONS	122
Silo/tank	SILTNK	125
Slope topline	SLOTOP	126
Sloping ground	SLOGRD	127
Top mark	TOPMAR	144
Cartographic areas	\$AREAS	500
Texts	\$TEXTS	504

Attribute:	Colour pattern

Acronym: COLPAT Code: 76

Beacon, cardinal	BCNCAR	5
Beacon, isolated danger	BCNISD	6
Beacon, lateral	BCNLAT	7
Beacon, safe water	BCNSAW	8
Beacon, special purpose/general	BCNSPP	9
Bridge	BRIDGE	11
Building, single	BUISGL	12
Buoy, cardinal	BOYCAR	14
Buoy, installation	BOYINB	15
Buoy, isolated danger	BOYISD	16
Buoy, lateral	BOYLAT	17
Buoy, safe water	BOYSAW	18
Buoy, special purpose/general	BOYSPP	19
Conveyor	CONVYR	34
Crane	CRANES	35
Dam	DAMCON	38
Daymark	DAYMAR	39
Fenceline	FNCLNE	52
Floating dock	FLODOC	57
Hulk	HULKES	65
Landmark	LNDMRK	74
Light-float	LITFLT	76
Light-vessel	LITVES	77

Attributes/Object	Classes	0	Deference
All indules/Object	Classes	CIOSS	Reference

B.19

Mooring/warping facility	MORFAC	84
Offshore platform	OFSPLF	87
Pile	PILPNT	90
Pylon/bridge support	PYLONS	98
Retro-reflector	RETRFL	113
Shoreline Construction	SLCONS	122
Silo/tank	SILTNK	125
Top mark	TOPMAR	144

Attribute:	Communication channel

Acronym: COMCHA Code: 77

Pilot boarding place	PILBOP	91
Radar range	RADRNG	100
Radio calling-in point	RDOCAL	104
Radio station	RDOSTA	105
Signal station, traffic	SISTAT	123
Signal station, warning	SISTAW	124

Attribute:	Compass size

Acronym: **\$CSIZE** Code: **78**

Compass \$COMPS 503

Attribute: Compilation date

Acronym: CPDATE Code: 79

Production information M_PROD 307

Attribute:	Compilation scale

Acronym: CSCALE Code: 80

Compilation scale of data M_CSCL 301

Attribute: Condition

Acronym: CONDTN Code: 81

Airport area Beacon, cardinal Beacon, isolated danger Beacon, lateral Beacon, safe water Beacon, special purpose/general Bridge Building, single Built-up area Cable, overhead Cable, submarine Canal Canal - bank Causeway Conveyor Crane Dam Dock area Dry dock Dyke Fenceline Floating dock Fortified structure Gate	AIRARE BCNCAR BCNISD BCNLAT BCNSAW BCNSPP BRIDGE BUISGL BUAARE CBLOHD CBLSUB CANALS CANBNK CAUSWY CONVYR CRANES DAMCON DOCARE DRYDOC DYKCON FNCLNE FLODOC FORSTC GATCON	2 5 6 7 8 9 11 12 13 21 22 23 24 26 34 35 38 45 47 49 52 57 59 61
Gate	GATCON	61
Harbour facility Hulk	HRBFAC HULKES	64 65
Land area Landmark Mooring/warping facility Obstruction Offshore platform Offshore production area	LNDARE LNDMRK MORFAC OBSTRN OFSPLF OSPARE	71 74 84 86 87 88
Oil barrier Pile Pipeline area Pipeline, overhead Pipeline, submarine/on land Pontoon	OILBAR PILPNT PIPARE PIPOHD PIPSOL PONTON	89 90 92 93 94 95

Production/storage area	PRDARE	97
Pylon/bridge support	PYLONS	98
Railway	RAILWY	106
River - bank	RIVBNK	115
Road	ROADWY	116
Runway	RUNWAY	117
Shoreline Construction	SLCONS	122
Silo/tank	SILTNK	125
Square	SQUARE	131
Tunnel	TUNNEL	151

Attribute:	Conspicuous, Radar

Acronym: CONRAD Code: 82

Beacon, cardinal Beacon, isolated danger Beacon, lateral Beacon, safe water Beacon, special purpose/general Bridge Building, single Built-up area Buoy, cardinal Buoy, isolated danger Buoy, isolated danger Buoy, safe water Buoy, special purpose/general Cable, overhead Coastline Conveyor Crane Dam Dyke Fenceline Floating dock Fortified structure Hulk Landmark Light-float Light-vessel Mooring/warping facility Offshore platform Offshore production area Pipeline, overhead Pontoon Production/storage area Pylon/bridge support Shoreline Construction Silo/tank	BCNCAR BCNISD BCNLAT BCNSAW BCNSPP BRIDGE BUISGL BUAARE BOYCAR BOYINB BOYISD BOYLAT BOYSAW BOYSPP CBLOHD COALNE CONVYR CRANES DAMCON DYKCON FNCLNE FLODOC FORSTC HULKES LNDMRK LITFLT LITVES MORFAC OFSPLF OSPARE PIPOHD PONTON PRDARE PYLONS SILTNIK	5 6 7 8 9 11 12 13 14 15 16 17 18 19 21 30 34 35 38 49 52 57 59 65 74 76 77 84 87 88 93 95 97 98 122 125 125 126 126 127 127 127 127 127 127 127 127 127 127
Silo/tank Slope topline	SILTNK SLOTOP	125 126

Sloping ground SLOGRD 127 Wrecks WRECKS 159

Attribute:	Conspicuous, visual	

Acronym: CONVIS Code: 83

Airport area	AIRARE	2
Beacon, cardinal	BCNCAR	5
Beacon, isolated danger	BCNISD	6
Beacon, lateral	BCNLAT	7
Beacon, safe water	BCNSAW	8
Beacon, special purpose/general	BCNSPP	9
Bridge	BRIDGE	11
Building, single	BUISGL	12
Built-up area	BUAARE	13
Cable, overhead	CBLOHD	21
Coastline	COALNE	30
Conveyor	CONVYR	34
Crane	CRANES	35
Dam	DAMCON	38
Fenceline	FNCLNE	52
Floating dock	FLODOC	57
Fortified structure	FORSTC	59
Hulk	HULKES	65
Ice area	ICEARE	66
Land elevation	LNDELV	72
Landmark	LNDMRK	74
Light-float	LITFLT	76
Light-vessel	LITVES	77
Mooring/warping facility	MORFAC	84
Offshore platform	OFSPLF	87
Offshore production area	OSPARE	88
Pile	PILPNT	90
Pipeline, overhead	PIPOHD	93
Pontoon	PONTON	95
Production/storage area	PRDARE	97
Pylon/bridge support	PYLONS	98
Runway	RUNWAY	117
Shoreline Construction	SLCONS	122
Silo/tank	SILTNK	125
Slope topline	SLOTOP	126
Sloping ground	SLOGRD	127
Vegetation area	VEGATN	155
Waterfall	WATFAL	157
Wrecks	WRECKS	159

Attribute: Current velocity

Acronym: CURVEL Code: 84

CurrentCURENT36Tidal stream - flood/ebbTS_FEB160

Attribute: Date, end

Acronym: **DATEND** Code: **85**

Anchor berth	ACHBRT	3
Anchorage area	ACHARE	4
Beacon, cardinal	BCNCAR	5
Beacon, isolated danger	BCNISD	6
Beacon, lateral	BCNLAT	7
Beacon, safe water	BCNSAW	8
Beacon, special purpose/general	BCNSPP	9
Berth	BERTHS	10
Bridge	BRIDGE	11
Buoy, cardinal	BOYCAR	14
Buoy, installation	BOYINB	15
Buoy, isolated danger	BOYISD	16
Buoy, lateral	BOYLAT	17
Buoy, safe water	BOYSAW	18
Buoy, special purpose/general	BOYSPP	19
Cable area	CBLARE	20
Cable, overhead	CBLOHD	21
Cable, submarine	CBLSUB	22
Canal	CANALS	23
Canal - bank	CANBNK	24
Cargo transhipment area	CTSARE	25
Caution area	CTNARE	27
Coastguard station	CGUSTA	29
Contiguous zone	CONZNE	31
Control point	CTRPNT	33
Conveyor	CONVYR	34
Current	CURENT	36
Dam	DAMCON	38
Daymark	DAYMAR	39
Deep water route centerline	DWRTCL	40
Deep water route - part	DWRTPT	41
Distance mark	DISMAR	44
Dock area	DOCARE	45
Dyke	DYKCON	49
Fairway	FAIRWY	51
Ferry route	FERYRT	53
Floating dock	FLODOC	57
Fog signal	FOGSIG	58
Harbour facility	HRBFAC	64

Inshore traffic zone Light Light-float Light-vessel Lock basin Magnetic variation Marine farm/culture Military practice area Mooring/warping facility Navigation line Offshore platform Offshore production area Oil barrier Pile Pilot boarding place Pipeline area Pipeline, overhead Pipeline, submarine/on land Pontoon Precautionary area Production/storage area Pylon/bridge support Radar range Radar station Radar transponder beacon Radio calling-in point Radio station Recommended Traffic Lane Part Rescue station Restricted area Shoreline Construction Signal station, warning Tidal stream-flood/ebb Traffic Separation Scheme - Boundary Traffic Separation Scheme - Crossing	ISTZNE LIGHTS LITFLT LITVES LOKBSN MAGVAR MARCUL MIPARE MORFAC NAVLNE OFSPLF OSPARE OILBAR PILPNT PILBOP PIPARE PIPOHD PIPSOL PONTON PRCARE PRDARE PYLONS RADRIG RADSTA RTPBCN RDOCAL RDOSTA RCRTCL RECTRC RCTLPT RSCSTA RESARE SLCONS SISTAT SISTAW TS_FEB TSELNE TSSBND TSSCRS	68 75 76 77 79 81 82 83 84 85 87 88 89 90 91 92 93 94 95 96 97 98 100 102 103 104 105 109 110 111 112 122 123 124 160 145
Traffic Separation Line	TSELNE	145
Traffic Separation Scheme - Lane part Traffic Separation Scheme - Roundabout Traffic Separation Zone Two-way route part	TSSLPT TSSRON TSEZNE TWRTPT	148 149 150 152

Acronym: **DATSTA** Code: **86**

Anchor berth	ACHBRT	3
Anchorage area	ACHARE	4
Beacon, cardinal	BCNCAR	5
Beacon, isolated danger	BCNISD	6

Radar range Radar station	RADRNG RADSTA	100 102
Radar transponder beacon	RTPBCN	103
Radio calling-in point	RDOCAL	104
Radio station	RDOSTA	105
Recommended route centerline	RCRTCL	108
Recommended track	RECTRC	109
Recommended Traffic Lane Part	RCTLPT	110
Rescue station	RSCSTA	111
Restricted area	RESARE	112
Shoreline Construction	SLCONS	122
Signal station, traffic	SISTAT	123
Signal station, warning	SISTAW	124
Tidal stream - flood/ebb	TS_FEB	160
Traffic Separation Line	TSELNE	145
Traffic Separation Scheme - Boundary	TSSBND	146
Traffic Separation Scheme - Crossing	TSSCRS	147
Traffic Separation Scheme - Lane part	TSSLPT	148
Traffic Separation Scheme - Roundabout	TSSRON	149
Traffic Separation Zone	TSEZNE	150
Two-way route part	TWRTPT	152

Attribute:	Depth range value 1	

Acronym: **DRVAL1** Code: **87**

Berth	BERTHS	10
Cable, submarine	CBLSUB	22
Deep water route centerline	DWRTCL	40
Deep water route - part	DWRTPT	41
Depth area	DEPARE	42
Dredged area	DRGARE	46
Dry dock	DRYDOC	47
Fairway	FAIRWY	51
Floating dock	FLODOC	57
Gate	GATCON	61
Pipeline, submarine/on land	PIPSOL	94
Recommended route centerline	RCRTCL	108
Recommended track	RECTRC	109
Swept area	SWPARE	134
Two-way route part	TWRTPT	152
Quality of data	M QUAL	308

Attribute:	Depth range value 2

Acronym: **DRVAL2** Code: **88**

Attributes/Object	Claccoc	Crocc	Doforonco
All indules/Object	Classes	CIUSS	Reference

B.27

Cable, submarine	CBLSUB	22
Deep water route centerline	DWRTCL	40
Deep water route - part	DWRTPT	41
Depth area	DEPARE	42
Dredged area	DRGARE	46
Pipeline, submarine/on land	PIPSOL	94
Recommended route centerline	RCRTCL	108
Recommended track	RECTRC	109
Two-way route part	TWRTPT	152
Quality of data	M_QUAL	308

Attribute: **Depth units**

Acronym: **DUNITS** Code: **89**

Units of measurement of data M_UNIT 311

Attribute: Elevation

Acronym: **ELEVAT** Code: **90**

Beacon, cardinal	BCNCAR	5
Beacon, isolated danger	BCNISD	6
Beacon, lateral	BCNLAT	7
Beacon, safe water	BCNSAW	8
Beacon, special purpose/general	BCNSPP	9
Building, single	BUISGL	12
Coastline	COALNE	30
Control point	CTRPNT	33
Daymark	DAYMAR	39
Fenceline	FNCLNE	52
Ice area	ICEARE	66
Lake	LAKARE	69
Land elevation	LNDELV	72
Landmark	LNDMRK	74
Production/storage area	PRDARE	97
Silo/tank	SILTNK	125
Slope topline	SLOTOP	126
Vegetation area	VEGATN	155

Attribute:	Estimated range of transmission

Acronym: **ESTRNG** Code: **91**

Radio station RDOSTA 105

Attribute: Exhibition condition of light

Acronym: **EXCLIT** Code: **92**

Light LIGHTS 75

Attribute: Exposition of sounding

Acronym: **EXPSOU** Code: **93**

Marine farm/cultureMARCUL82ObstructionOBSTRN86SoundingSOUNDG129Underwater/awash rockUWTROC153WrecksWRECKS159

Attribute: Function

Acronym: **FUNCTN** Code: **94**

Building, single BUISGL 12 Landmark LNDMRK 74

Attribute: **Height**

Acronym: **HEIGHT** Code: **95**

Beacon, cardinal Beacon, isolated danger Beacon, lateral Beacon, safe water Beacon, special purpose/general Building, single Built-up area Conveyor Crane Dam Daymark Dyke Fenceline Fortified structure Ice area Landmark Light Mooring/warping facility Obstruction Offshore platform Offshore production area Pile Production/storage area Pylon/bridge support Badar reflector	BCNCAR BCNISD BCNLAT BCNSAW BCNSPP BUISGL BUAARE CONVYR CRANES DAMCON DAYMAR DYKCON FNCLNE FORSTC ICEARE LNDMRK LIGHTS MORFAC OBSTRN OFSPLF OSPARE PILPNT PRDARE PYLONS RADREI	5 6 7 8 9 12 13 34 35 38 39 49 52 59 66 74 75 84 86 87 88 90 97 98
Radar reflector Radar station	RADRFL RADSTA	101 102
Railway	RAILWY	102
Retro-reflector	RETRFL	113
Shoreline Construction	SLCONS	122
Silo/tank	SILTNK	125
Top mark	TOPMAR	144
Vegetation area	VEGATN	155
Wrecks	WRECKS	159

Attribute:	Height units

Acronym: **HUNITS** Code: **96**

Units of measurement of data M_UNIT 311

Attribute:	Horizontal accuracy

Acronym: **HORACC** Code: **97**

Bridge BRIDGE 11 Canal CANALS 23

Attributes/Ob	ingt Classes	Crocc	Deference
Attributes/Ob	iect Classes	Cross	Reference

B.30

Dock area	DOCARE	45
Dry dock	DRYDOC	47
Floating dock	FLODOC	57
Gate	GATCON	61
Gridiron	GRIDRN	62
Hulk	HULKES	65
Light-float	LITFLT	76
Light-vessel	LITVES	77
Lock basin	LOKBSN	79
Shoreline Construction	SLCONS	122
Tunnel	TUNNEL	151
Accuracy of data	M_ACCY	300

Attribute:	Horizontal clearance		

Acronym: HORCLR Code: 98

Bridge	BRIDGE	11
Canal	CANALS	23
Dock area	DOCARE	45
Dry dock	DRYDOC	47
Floating dock	FLODOC	57
Gate	GATCON	61
Lock basin	LOKBSN	79
Shoreline Construction	SLCONS	122
Tunnel	TUNNEL	151

Attribute:	Horizontal length	

Acronym: **HORLEN** Code: **99**

Dry dock	DRYDOC	47
Floating dock	FLODOC	57
Gridiron	GRIDRN	62
Hulk	HULKES	65
Light-float	LITFLT	76
Light-vessel	LITVES	77
Lock basin	LOKBSN	79
Shoreline Construction	SLCONS	122

Attribute:	Horizontal width

Acronym: HORWID	Code: 100
-----------------	------------------

Canal	CANALS	23
Dry dock	DRYDOC	47
Floating dock	FLODOC	57
Gridiron	GRIDRN	62
Hulk	HULKES	65
Light-float	LITFLT	76
Light-vessel	LITVES	77
Lock basin	LOKBSN	79
Shoreline Construction	SLCONS	122

Attribute:	Ice factor		

Acronym: ICEFAC Code: 101

Cable, overhead CBLOHD 21

Attribute:	Information		

Acronym: INFORM Code: 102

Administration area (named)	ADMARE	1
Airport area	AIRARE	2
Anchor berth	ACHBRT	3
Anchorage area	ACHARE	4
Beacon, cardinal	BCNCAR	5
Beacon, isolated danger	BCNISD	6
Beacon, lateral	BCNLAT	7
Beacon, safe water	BCNSAW	8
Beacon, special purpose/general	BCNSPP	9
Berth	BERTHS	10
Bridge	BRIDGE	11
Building, single	BUISGL	12
Built-up area	BUAARE	13
Buoy, cardinal	BOYCAR	14
Buoy, installation	BOYINB	15
Buoy, isolated danger	BOYISD	16
Buoy, lateral	BOYLAT	17
Buoy, safe water	BOYSAW	18
Buoy, special purpose/general	BOYSPP	19
Cable area	CBLARE	20
Cable, overhead	CBLOHD	21
Cable, submarine	CBLSUB	22
Canal	CANALS	23

Canal - bank	CANBNK	24
Cargo transhipment area	CTSARE	25
Causeway	CAUSWY	26
Caution area	CTNARE	27
Checkpoint	CHKPNT	28
Coastguard station	CGUSTA	29
Coastline	COALNE	30
Contiguous zone	CONZNE	31
Continental shelf area	COSARE	32
Control point	CTRPNT	33
Conveyor	CONVYR	34
Crane	CRANES	35
Current	CURENT	36
Custom zone	CUSZNE	37
Dam	DAMCON	38
Daymark	DAYMAR	39
Deep water route centerline	DWRTCL	40
Deep water route - part	DWRTPT	41
Depth area	DEPARE	42
Depth contour	DEPCNT	43
Distance mark	DISMAR	44
Dock area	DOCARE	45
Dredged area	DRGARE	46
		47
Dry dock	DRYDOC	
Dumping ground	DMPGRD	48
Dyke	DYKCON	49
Exclusive economic zone	EXEZNE	50
Fairway	FAIRWY	51
Fenceline	FNCLNE	52
Ferry route	FERYRT	53
Fishery zone	FSHZNE	54
Fishing facility	FSHFAC	55
Fishing ground	FSHGRD	56
Floating dock	FLODOC	57
Fog signal	FOGSIG	58
Fortified structure	FORSTC	59
Free port area	FRPARE	60
Gate	GATCON	61
	GRIDRN	
Gridiron		62
Harbour area (administrative)	HRBARE	63
Harbour facility	HRBFAC	64
Hulk	HULKES	65
Ice area	ICEARE	66
Incineration area	ICNARE	67
Inshore traffic zone	ISTZNE	68
Lake	LAKARE	69
Lake - shore	LAKSHR	70
Land area	LNDARE	71
Land elevation	LNDELV	72
Land region	LNDRGN	73
Landmark	LNDMRK	74
Light	LIGHTS	75
Light-float	LITYER	76 77
Light-vessel	LITVES	77
Local magnetic anomaly	LOCMAG	78
Lock basin	LOKBSN	79
Log pond	LOGPON	80
0 1		-

Manuatia mulatian	MACVAD	04
Magnetic variation	MAGVAR	81
Marine farm/culture	MARCUL	82
Military practice area	MIPARE	83
Mooring/warping facility	MORFAC	84
Navigation line	NAVLNE	85
Obstruction	OBSTRN	86
Offshore platform	OFSPLF	87
Offshore production area	OSPARE	88
·		
Oil barrier	OILBAR	89
Pile	PILPNT	90
Pilot boarding place	PILBOP	91
Pipeline area	PIPARE	92
Pipeline, overhead	PIPOHD	93
Pipeline, submarine/on land	PIPSOL	94
Pontoon	PONTON	95
Precautionary area	PRCARE	96
Production/storage area	PRDARE	97
Pylon/bridge support	PYLONS	98
Radar line	RADLNE	99
Radar range	RADRNG	100
Radar reflector	RADRFL	101
Radar station	RADSTA	102
Radar transponder beacon	RTPBCN	103
Radio calling-in point	RDOCAL	104
Radio station	RDOSTA	105
Railway	RAILWY	106
· · · · · · · · · · · · · · · · · · ·	RAPIDS	107
Rapids		
Recommended route centerline	RCRTCL	108
Recommended track	RECTRC	109
Recommended traffic lane part	RCTLPT	110
Rescue station	RSCSTA	111
Restricted area	RESARE	112
Retro-reflector	RETRFL	113
River	RIVERS	114
River - bank	RIVBNK	115
River - bank	RIVBNK	115
Road	ROADWY	116
Runway	RUNWAY	117
Sand waves	SNDWAV	118
Sea area/named water area	SEAARE	119
Sea-plane landing area	SPLARE	120
Seabed area	SBDARE	121
Shoreline Construction	SLCONS	122
Signal station, traffic	SISTAT	123
Signal station, warning	SISTAW	124
Silo/tank	SILTNK	125
Slope topline	SLOTOP	126
Sloping ground	SLOGRD	127
Small craft facility	SMCFAC	128
Sounding	SOUNDG	129
Spring	SPRING	130
Square	SQUARE	131
Straight territorial sea baseline	STSLNE	132
Submarine transit lane	SUBTLN	133
Swept area	SWPARE	134
Territoria sea area	TESARE	135
Tidal stream - flood/ebb	TS_FEB	160

Tidal stream - harmonic prediction	TS PRH	136
Tidal stream - non-harmonic prediction	TS PNH	137
Tidal stream - panal data	TS_PAD	138
Tidal stream - time series	TS_TIS	139
Tide harmonic prediction	T_HMON	140
•		
Tide non-harmonic prediction	T_NHMN	141
Tide time series	T_TIMS	142
Tideway	TIDEWY	143
Topmark	TOPMAR	144
Traffic separation line	TSELNE	145
Traffic separation scheme boundary	TSSBND	146
Traffic separation scheme crossing	TSSCRS	147
Traffic separation scheme lane part	TSSLPT	148
Traffic separation scheme roundabout	TSSRON	149
Traffic separation zone	TSEZNE	150
Tunnel	TUNNEL	151
Two-way route part	TWRTPT	152
Underwater/awash rock	UWTROC	153
Unsurveyed area	UNSARE	154
Vegetation area	VEGATN	155
Water turbulence	WATTUR	156
Waterfall	WATFAL	157
Weed/Kelp	WEDKLP	158
Wrecks	WRECKS	159
Tidal stream - flood/ebb	TS_FEB	160
Accuracy of data	M_ACCY	300
Compilation scale of data	M_CSCL	301
Coverage	M_COVR	302
Horizontal datum of data	M-HDAT	303
Horizontal datum shift parameters	M_HOPA	304
Nautical publication information	M_NPUB	305
Navigational system of marks	M_NSYS	306
Production information	M_PROD	307
Quality of data	M QUAL	308
Sounding datum	M SDAT	309
Survey reliability	M_SREL	310
Units of measurement of data	M_UNIT	311
Vertical datum of data	M VDAT	312
Aggregation	C_AGGR	400
Association	C_ASSO	401
Stacked on/stacked under	C_STAC	402
	\$AREAS	
Cartographic area		500
Cartographic line	\$LINES	501
Cartographic symbol	\$CSYMB	502
Compass	\$COMPS	503
Texts	\$TEXTS	504

	Attribute: Jurisdiction		
--	--------------------------------	--	--

Acronym: **JRSDTN** Code: **103**

Administration area (named) ADMARE 1

Attribute: Justification - horizontal

Acronym: \$JUSTH Code: 104

Texts \$TEXTS 504

Attribute: Justification - vertical

Acronym: \$JUSTV Code: 105

Texts \$TEXTS 504

Attribute: Lifting capacity

Acronym: LIFCAP Code: 106

ConveyorCONVYR34CraneCRANES35Floating dockFLODOC57

Attribute: Characteristic of light

Acronym: LITCHR Code: 107

Light LIGHTS 75

Attribute: Visibility of light

Acronym: LITVIS Code: 108

Light LIGHTS 75

Attribute:	Marks navigational - system of

Acronym: MARSYS Code: 109

Beacon, cardinal	BCNCAR	5
Beacon, isolated danger	BCNISD	6
Beacon, lateral	BCNLAT	7
Beacon, safe water	BCNSAW	8
Beacon, special purpose/general	BCNSPP	9
Buoy, cardinal	BOYCAR	14
Buoy, installation	BOYINB	15
Buoy, isolated danger	BOYISD	16
Buoy, lateral	BOYLAT	17
Buoy, safe water	BOYSAW	18
Buoy, special purpose/general	BOYSPP	19
Light	LIGHTS	75
Retro-reflector	RETRFL	113
Top mark	TOPMAR	144
Marks navigational - system of	M_NSYS	306

Attribute:	Multiplicity of lights

Acronym: MLTYLT Code: 110

Light LIGHTS 75

Attribute:	Nationality		

Acronym: **NATION** Code: 111

ADMARE	1
CONZNE	31
COSARE	32
CUSZNE	37
EXEZNE	50
FSHZNE	54
STSLNE	132
	CONZNE COSARE CUSZNE EXEZNE FSHZNE

Edition 3.1 November 2000 S-57 Appendix A - Annex B

Territorial sea area TESARE 135
Production information M_PROD 307

Attribute:	Nature of construction

Acronym: NATCON Code: 112

Beacon, cardinal	BCNCAR	5
Beacon, isolated danger	BCNISD	6
Beacon, lateral	BCNLAT	7
Beacon, safe water	BCNSAW	8
Beacon, special purpose/general	BCNSPP	9
Bridge	BRIDGE	11
Building, single	BUISGL	12
Buoy, cardinal	BOYCAR	14
Buoy, installation	BOYINB	15
Buoy, isolated danger	BOYISD	16
Buoy, lateral	BOYLAT	17
Buoy, safe water	BOYSAW	18
Buoy, special purpose/general	BOYSPP	19
Causeway	CAUSWY	26
Dam	DAMCON	38
Daymark	DAYMAR	39
Dyke	DYKCON	49
Fenceline	FNCLNE	52
Fortified structure	FORSTC	59
Gate	GATCON	61
Gridiron	GRIDRN	62
Harbour facility	HRBFAC	64
Landmark	LNDMRK	74
Light-float	LITFLT	76
Light-vessel	LITVES	77
Mooring/warping facility	MORFAC	84
Obstruction	OBSTRN	86
Offshore platform	OFSPLF	87
Pontoon	PONTON	95
Pylon/bridge support	PYLONS	98
River - bank	RIVBNK	115
Road	ROADWY	116
Runway	RUNWAY	117
Shoreline Construction	SLCONS	122
Silo/tank	SILTNK	125
Slope topline	SLOTOP	126
Sloping ground	SLOGRD	127

Attribute:	Nature of surface

Square SQUARE 131

Acronym: NATSUR	Code: 113
-----------------	------------------

Land region	LNDRGN	73
Obstruction	OBSTRN	86
Seabed area	SBDARE	121
Slope topline	SLOTOP	126
Sloping ground	SLOGRD	127
Underwater/awash rock	UWTROC	153

Attribute:	Nature of surface - qualifying terms

Acronym: NATQUA Code: 114

Land region	LNDRGN	73
Obstruction	OBSTRN	86
Seabed area	SBDARE	121
Slope topline	SLOTOP	126
Sloping ground	SLOGRD	127
Underwater/awash rock	UWTROC	153

Attribute:	Notice to Mariners date

Acronym: NMDATE Code: 115

Production information M_PROD 307

Attribute:	Object name		

Acronym: **OBJNAM** Code: **116**

Administration area (named)	ADMARE	1
Airport area	AIRARE	2
Anchor berth	ACHBRT	3
Anchorage area	ACHARE	4
Beacon, cardinal	BCNCAR	5
Beacon, isolated danger	BCNISD	6
Beacon, lateral	BCNLAT	7
Beacon, safe water	BCNSAW	8
Beacon, special purpose/general	BCNSPP	9
Berth	BERTHS	10

Deidaa	DDIDCE	4.4
Bridge	BRIDGE	11
Building, single	BUISGL	12
Built-up area	BUAARE	13
Buoy, cardinal	BOYCAR	14
Buoy, installation	BOYINB	15
Buoy, isolated danger	BOYISD	16
Buoy, lateral	BOYLAT	17
Buoy, safe water	BOYSAW	18
Buoy, special purpose/general	BOYSPP	19
Cable area	CBLARE	20
Cable, overhead	CBLOHD	21
Cable, submarine	CBLSUB	22
Canal	CANALS	23
Canal - bank	CANBNK	24
Cargo transhipment area	CTSARE	25
Causeway	CAUSWY	26
Checkpoint	CHKPNT	28
Coastguard station	CGUSTA	29
Coastline	COALNE	30
Continental shelf area		32
	COSARE	
Control point	CTRPNT	33
Conveyor	CONVYR	34
Crane	CRANES	35
Current	CURENT	36
Dam	DAMCON	38
Daymark Daymark south contorling	DAYMAR	39
Deep water route centerline	DWRTCL	40
Deep water route - part	DWRTPT	41
Distance mark	DISMAR	44
Dock area	DOCARE	45
Dredged area	DRGARE	46
Dry dock	DRYDOC	47
Dumping ground	DMPGRD	48
Fairway	FAIRWY	51
Fenceline	FNCLNE	52
Ferry route	FERYRT	53
Fishery zone	FSHZNE	54
Fishing facility	FSHFAC	55
Fishing ground	FSHGRD	56
Floating dock	FLODOC	57
Fog signal	FOGSIG	58
Fortified structure	FORSTC	59
Free port area	FRPARE	60
Gate	GATCON	61
Gridiron	GRIDRN	62
Harbour area (administrative)	HRBARE	63
Harbour facility	HRBFAC	64
Hulk	HULKES	65
Ice area	ICEARE	66
Incineration area	ICNARE	67
Lake	LAKARE	69
Lake - shore	LAKSHR	70
Land area	LNDARE	71
Land elevation	LNDELV	72
Land region	LNDRGN	73
Landmark	LNDMRK	74
Light	LIGHTS	75

Light-float	LITFLT	76
Light-vessel	LITVES	77
Local magnetic anomaly	LOCMAG	78
Lock basin	LOKBSN	79
Log pond	LOGPON	80
Marine farm/culture	MARCUL	82
Military practice area	MIPARE	83
Mooring/warping facility	MORFAC	84
Obstruction	OBSTRN	86
Offshore platform	OFSPLF	87
Offshore production area	OSPARE	88
Oil barrier	OILBAR	89
Pile	PILPNT	90
Pilot boarding place	PILBOP	91
Pipeline area	PIPARE	92
Pipeline, overhead	PIPOHD	93
Pipeline, submarine/on land	PIPSOL	94
Pontoon	PONTON	95
Production/storage area	PRDARE	97
Pylon/bridge support	PYLONS	98
Radar line	RADLNE	99
Radar range	RADRNG	100
Radar station	RADSTA	102
Radar transponder beacon	RTPBCN	103
Radio calling-in point	RDOCAL	104
Radio station	RDOSTA	105
Railway	RAILWY	106
Rapids	RAPIDS	107
Recommended route centerline	RCRTCL	108
Recommended track	RECTRC	109
Rescue station	RSCSTA	111
Restricted area	RESARE	112
River	RIVERS	114
River - bank	RIVBNK	115
River - bank	RIVBNK	115
Road	ROADWY	116
Runway	RUNWAY	117
Sea area/named water area	SEAARE	119
Sea-plane landing area	SPLARE	120
Seabed area	SBDARE	121
Shoreline Construction	SLCONS	122
Signal station, traffic	SISTAT	123
Signal station, warning	SISTAW	124
Silo/tank	SILTNK	125
Slope topline	SLOTOP	126
Sloping ground	SLOGRD	127
Small craft facility	SMCFAC	128
Sounding	SOUNDG	129
Spring	SPRING	130
Square	SQUARE	131
Submarine transit lane	SUBTLN	133
Tidal stream - flood/ebb	TS_FEB	160
Tidal stream - harmonic prediction	TS_PRH	136
Tidal stream - non-harmonic prediction	TS_PNH	137
Tidal stream - panal data	TS_PAD	138
Tidal stream - time series	TS_TIS	139
Tide harmonic prediction	T_HMON	140

Tide non-harmonic prediction	T_NHMN	141
Tide time series	T_TIMS	142
Tideway	TIDEWY	143
Tunnel	TUNNEL	151
Underwater/awash rock	UWTROC	153
Vegetation area	VEGATN	155
Water turbulence	WATTUR	156
Waterfall	WATFAL	157
Weed/Kelp	WEDKLP	158
Wrecks	WRECKS	159
Aggregation	C_AGGR	400
Association	C_ASSO	401
Texts	\$TEXTS	504

Attribute:	Orientation		

Acronym: **ORIENT** Code: **117**

Crane	CRANES	35
Current	CURENT	36
Deep water route centerline	DWRTCL	40
Deep water route - part	DWRTPT	41
Fairway	FAIRWY	51
Light	LIGHTS	75
Navigation line	NAVLNE	85
Radar line	RADLNE	99
Radio calling-in point	RDOCAL	104
Radio station	RDOSTA	105
Recommended route centerline	RCRTCL	108
Recommended track	RECTRC	109
Recommended Traffic Lane Part	RCTLPT	110
Tidal stream - flood/ebb	TS_FEB	160
Traffic Separation Scheme - Lane part	TSSLPT	148
Two-way route part	TWRTPT	152
Marks navigational - system of	M_NSYS	306
Cartographic areas	\$AREAS	500
Cartographic symbols	\$CSYMB	502

Attribute:	Periodic date, end	

Acronym: **PEREND** Code: **118**

Anchor berth	ACHBRT	3
Anchorage area	ACHARE	4
Beacon, cardinal	BCNCAR	5
Beacon, isolated danger	BCNISD	6

	50111.4.7	_
Beacon, lateral	BCNLAT	7
Beacon, safe water	BCNSAW	8
Beacon, special purpose/general	BCNSPP	9
Berth	BERTHS	10
Buoy, cardinal	BOYCAR	14
Buoy, installation	BOYINB	15
Buoy, isolated danger	BOYISD	16
Buoy, lateral	BOYLAT	17
Buoy, safe water	BOYSAW	18
Buoy, special purpose/general	BOYSPP	19
Cargo transhipment area	CTSARE	25
Caution area	CTNARE	27
Coastguard station	CGUSTA	29
Current	CURENT	36
Daymark	DAYMAR	39
•		53
Ferry route	FERYRT	
Fishing facility	FSHFAC	55
Fishing ground	FSHGRD	56
Harbour facility	HRBFAC	64
Ice area	ICEARE	66
Incineration area	ICNARE	67
Light	LIGHTS	75
Light-float	LITFLT	76
Light-vessel	LITVES	77
Marine farm/culture	MARCUL	82
Military practice area	MIPARE	83
Mooring/warping facility	MORFAC	84
Navigation line	NAVLNE	85
Pilot boarding place	PILBOP	91
Pontoon	PONTON	95
Radio calling-in point	RDOCAL	104
Radio station	RDOSTA	105
Recommended route centerline	RCRTCL	108
Recommended track	RECTRC	109
Rescue station	RSCSTA	111
Restricted area	RESARE	112
Runway	RUNWAY	117
Sea-plane landing area	SPLARE	120
Signal station, traffic	SISTAT	123
Signal station, warning	SISTAW	124
Small craft facility	SMCFAC	128
Tidal stream - flood/ebb	TS_FEB	160
	- <u>-</u>	

Attribute:	Periodic date, start

Acronym: **PERSTA** Code: **119**

Anchor berth	ACHBRT	3
Anchorage area	ACHARE	4
Beacon, cardinal	BCNCAR	5
Beacon, isolated danger	BCNISD	6
Beacon, lateral	BCNLAT	7

Beacon, safe water	BCNSAW	8
Beacon, special purpose/general	BCNSPP	9
Berth	BERTHS	10
Buoy, cardinal	BOYCAR	14
Buoy, installation	BOYINB	15
Buoy, isolated danger	BOYISD	16
Buoy, lateral	BOYLAT	17
Buoy, safe water	BOYSAW	18
Buoy, special purpose/general	BOYSPP	19
Cargo transhipment area	CTSARE	25
Caution area	CTNARE	27
Coastguard station	CGUSTA	29
Current	CURENT	36
Daymark	DAYMAR	39
Ferry route	FERYRT	53
Fishing facility	FSHFAC	55
Fishing ground	FSHGRD	56
Harbour facility	HRBFAC	64
Ice area	ICEARE	66
Incineration area	ICNARE	67
Light	LIGHTS	75
Light-float	LITFLT	76
Light-vessel	LITVES	77
Marine farm/culture	MARCUL	82
Military practice area	MIPARE	83
Mooring/warping facility	MORFAC	84
Navigation line	NAVLNE	85
Pilot boarding place	PILBOP	91
Pontoon	PONTON	95
Radio calling-in point	RDOCAL	104
Radio station	RDOSTA	105
Recommended route centerline	RCRTCL	108
Recommended track	RECTRC	109
Rescue station	RSCSTA	111
Restricted area	RESARE	112
Runway	RUNWAY	117
Sea-plane landing area	SPLARE	120
Signal station, traffic	SISTAT	123
Signal station, warning	SISTAW	124
Small craft facility	SMCFAC	128
Tidal stream - flood/ebb	TS_FEB	160

Attribute:	Pictorial representation

Acronym: PICREP Code: 120

Administration area (named)	ADMARE	1
Airport area	AIRARE	2
Beacon, cardinal	BCNCAR	5
Beacon, isolated danger	BCNISD	6
Beacon, lateral	BCNLAT	7
Beacon, safe water	BCNSAW	8

Beacon, special purpose/general Bridge Building, single Built-up area Buoy, cardinal Buoy, installation Buoy, isolated danger Buoy, lateral Buoy, safe water Buoy, special purpose/general Coastline Control point Conveyor Crane Floating dock Fortified structure Hulk Landmark Light-float Light-vessel Mooring/warping facility Offshore platform Production/storage area Pylon/bridge support	BCNSPP BRIDGE BUISGL BUAARE BOYCAR BOYINB BOYISD BOYLAT BOYSAW BOYSPP COALNE CTRPNT CONVYR CRANES FLODOC FORSTC HULKES LNDMRK LITFLT LITVES MORFAC OFSPLF PRDARE PYLONS	9 11 12 13 14 15 16 17 18 19 30 33 34 35 57 59 65 74 76 77 84 87 97 98
		_
- · · · · · · · · · · · · · · · · · · ·		
		_
	PRDARE	97
Pylon/bridge support	PYLONS	98
Silo/tank	SILTNK	125
Small craft facility	SMCFAC	128
Topmark	TOPMAR	144
Tunnel	TUNNEL	151
Wrecks	WRECKS M NPUB	159 305
Nautical publication information Aggregation	M_NPOB C AGGR	400
Association	C_AGGR C_ASSO	401
Stacked on/stacked under	C STAC	402
Cartographic area	\$AREAS	500
Cartographic line	\$LINES	501
Cartographic symbol	\$CSYMB	502
Compass	\$COMPS	503
Texts	\$TEXTS	504

Attribute:	Pilot district		

Acronym: PILDST Code: 121

Pilot boarding place PILBOP 91

Attribute:	Positional accuracy units

Acronym: **PUNITS** Code: **189**

Units of measurement of data M_UNIT 311

Attribute: Producing country

Acronym: PRCTRY Code: 122

Production information M_PROD 307

Attribute: Product

Acronym: **PRODCT** Code: **123**

Buoy, installation	BOYINB	15
Conveyor	CONVYR	34
Obstruction	OBSTRN	86
Offshore platform	OFSPLF	87
Offshore production area	OSPARE	88
Pipeline area	PIPARE	92
Pipeline, overhead	PIPOHD	93
Pipeline, submarine/on land	PIPSOL	94
Production/storage area	PRDARE	97
Silo/tank	SILTNK	125

Attribute: Publication reference

Acronym: **PUBREF** Code: **124**

Nautical publication information M_NPUB 305

Attribute: Quality of sounding measurement

Acronym: QUASOU			Code: 125
Berth Deep water route centerline Deep water route - part Depth area Dredged area Dry dock Fairway Gate Marine farm/culture Obstruction Recommended route centerline Recommended track Sounding Swept area Two-way route part Underwater/awash rock Wrecks Survey reliability	BERTHS DWRTCL DWRTPT DEPARE DRGARE DRYDOC FAIRWY GATCON MARCUL OBSTRN RCRTCL RECTRC SOUNDG SWPARE TWRTPT UWTROC WRECKS M_SREL	10 40 41 42 46 47 51 61 82 86 108 109 129 134 152 153 159 310	
Attribute: Radar transponder beacon wavelength			
Acronym: RADWAL Radar transponder beacon	RTPBCN	103	Code: 126
Attribute: Radius			
Acronym: RADIUS Anchor berth Crane	ACHBRT CRANES	3 35	Code: 127
Attribute: Recording date			
Acronym: RECDAT Administration area (named) Airport area Anchor berth	ADMARE AIRARE ACHBRT	1 2 3	Code: 128

Anchorage area	ACHARE	4
Beacon, cardinal	BCNCAR	5
Beacon, isolated danger	BCNISD	6
Beacon, lateral	BCNLAT	7
Beacon, safe water	BCNSAW	8
Beacon, special purpose/general Berth	BCNSPP BERTHS	9 10
Bridge	BRIDGE	11
Building, single	BUISGL	12
Built-up area	BUAARE	13
Buoy, cardinal	BOYCAR	14
Buoy, installation	BOYINB	15
Buoy, isolated danger	BOYISD	16
Buoy, lateral	BOYLAT	17
Buoy, safe water	BOYSAW	18
Buoy, special purpose/general	BOYSPP	19
Cable area	CBLARE	20
Cable, overhead	CBLOHD	21
Cable, submarine	CBLSUB	22
Canal	CANALS	23
Canal - bank	CANBNK	24
Cargo transhipment area	CTSARE	25
Causeway	CAUSWY	26
Caution area	CTNARE CHKPNT	27 28
Checkpoint Coastguard station	CGUSTA	28 29
Coastline	COALNE	30
Contiguous zone	CONZNE	31
Continental shelf area	COSARE	32
Control point	CTRPNT	33
Conveyor	CONVYR	34
Crane	CRANES	35
Current	CURENT	36
Custom zone	CUSZNE	37
Dam	DAMCON	38
Daymark	DAYMAR	39
Deep water route centerline	DWRTCL	40
Deep water route - part	DWRTPT	41
Depth area	DEPARE	42
Depth contour	DEPCNT	43
Distance mark Dock area	DISMAR DOCARE	44 45
Dredged area	DRGARE	46
Dry dock	DRYDOC	47
Dumping ground	DMPGRD	48
Dyke	DYKCON	49
Exclusive economic zone	EXEZNE	50
Fairway	FAIRWY	51
Fenceline	FNCLNE	52
Ferry route	FERYRT	53
Fishery zone	FSHZNE	54
Fishing facility	FSHFAC	55
Fishing ground	FSHGRD	56
Floating dock	FLODOC	57
Fog signal	FOGSIG	58
Fortified structure	FORSTC FRPARE	59
Free port area	FREAKE	60

Gate Gridiron Harbour area (administrative) Harbour facility Hulk Ice area Incineration area Inshore traffic zone Lake	GATCON GRIDRN HRBARE HRBFAC HULKES ICEARE ICNARE ISTZNE LAKARE	61 62 63 64 65 66 67 68 69
Lake - shore Land area Land elevation Land region Landmark	LAKSHR LNDARE LNDELV LNDRGN LNDMRK	70 71 72 73 74
Light Light-float Light-vessel Local magnetic anomaly Lock basin	LIGHTS LITFLT LITVES LOCMAG LOKBSN	75 76 77 78 79
Log pond Magnetic variation Marine farm/culture Military practice area Mooring/warping facility	LOGPON MAGVAR MARCUL MIPARE MORFAC	80 81 82 83 84
Navigation line Obstruction Offshore platform Offshore production area	NAVLNE OBSTRN OFSPLF OSPARE	85 86 87 88
Oil barrier Pile Pilot boarding place Pipeline area Pipeline, overhead	OILBAR PILPNT PILBOP PIPARE PIPOHD	89 90 91 92 93
Pipeline, submarine/on land Pontoon Precautionary area Production/storage area Pylon/bridge support	PIPSOL PONTON PRCARE PRDARE PYLONS	94 95 96 97 98
Radar line Radar range Radar reflector Radar station	RADLNE RADRNG RADRFL RADSTA	99 100 101 102
Radar transponder beacon Radio calling-in point Radio station Railway Rapids	RTPBCN RDOCAL RDOSTA RAILWY RAPIDS	103 104 105 106 107
Recommended route centerline Recommended track Recommended traffic lane part Rescue station Restricted area Retro-reflector River	RCRTCL RECTRC RCTLPT RSCSTA RESARE RETRFL RIVERS	108 109 110 111 112 113 114
River - bank Road Runway	RIVBNK ROADWY RUNWAY	115 116 117

Sand waves	SNDWAV	118
		_
Sea area/named water area	SEAARE	119
Sea-plane landing area	SPLARE	120
Seabed area	SBDARE	121
Shoreline Construction	SLCONS	122
Signal station, traffic	SISTAT	123
	SISTAW	124
Signal station, warning		
Silo/tank	SILTNK	125
Slope topline	SLOTOP	126
Sloping ground	SLOGRD	127
Small craft facility	SMCFAC	128
Sounding	SOUNDG	129
Spring	SPRING	130
	SQUARE	131
Square		
Straight territorial sea baseline	STSLNE	132
Submarine transit lane	SUBTLN	133
Swept area	SWPARE	134
Territorial sea area	TESARE	135
Tidal stream - harmonic prediction	TS PRH	136
Tidal stream - non-harmonic prediction	TS_PNH	137
·		138
Tidal stream - panal data	TS_PAD	
Tidal stream - time series	TS_TIS	139
Tide harmonic prediction	T_HMON	140
Tide non-harmonic prediction	T_NHMN	141
Tide time series	T_TIMS	142
Tideway	TIDEWY	143
Topmark	TOPMAR	144
Traffic separation line	TSELNE	145
	_	
Traffic separation scheme boundary	TSSBND	146
Traffic separation scheme crossing	TSSCRS	147
Traffic separation scheme lane part	TSSLPT	148
Traffic separation scheme roundabout	TSSRON	149
Traffic separation zone	TSEZNE	150
Tunnel	TUNNEL	151
Two-way route part	TWRTPT	152
Underwater/awash rock	UWTROC	153
		154
Unsurveyed area	UNSARE	
Vegetation area	VEGATN	155
Water turbulence	WATTUR	156
Waterfall	WATFAL	157
Weed/Kelp	WEDKLP	158
Wrecks	WRECKS	159
Tidal stream - flood/ebb	TS_FEB	160
Accuracy of data	M_ACCY	300
Compilation scale of data	M_CSCL	301
Coverage	M_COVR	302
Horizontal datum of data	M-HDAT	303
Horizontal datum shift parameters	M_HOPA	304
Nautical publication information	M_NPUB	305
Navigational system of marks	M_NSYS	306
Production information	M_PROD	307
Quality of data		308
	M_QUAL	
Sounding datum	M_SDAT	309
Survey reliability	M_SREL	310
Units of measurement of data	M_UNIT	311
Vertical datum of data	M_VDAT	312
Aggregation	C_AGGR	400

Association	C_ASSO	401
Stacked on/stacked under	C_STAC	402
Cartographic area	\$AREAS	500
Cartographic line	\$LINES	501
Cartographic symbol	\$CSYMB	502
Compass	\$COMPS	503
Texts	\$TEXTS	504

Attribute:	Recording indication	

Acronym: **RECIND** Code: **129**

Administration area (named)	ADMARE	1
Airport area	AIRARE	2
Anchor berth	ACHBRT	3
Anchorage area	ACHARE	4
Beacon, cardinal	BCNCAR	5
Beacon, isolated danger	BCNISD	6
Beacon, lateral	BCNLAT	7
Beacon, safe water	BCNSAW	8
Beacon, special purpose/general	BCNSPP	9
Berth	BERTHS	10
Bridge	BRIDGE	11
Building, single	BUISGL	12
Built-up area	BUAARE	13
Buoy, cardinal	BOYCAR	14
Buoy, installation	BOYINB	15
Buoy, isolated danger	BOYISD	16
Buoy, lateral	BOYLAT	17
Buoy, safe water	BOYSAW	18
Buoy, special purpose/general	BOYSPP	19
Cable area	CBLARE	20
Cable, overhead	CBLOHD	21
Cable, submarine	CBLSUB	22
Canal	CANALS	23
Canal - bank	CANBNK	24
Cargo transhipment area	CTSARE	25
Causeway	CAUSWY	26
Caution area	CTNARE	27
Checkpoint	CHKPNT	28
Coastguard station	CGUSTA	29
Coastline	COALNE	30
Contiguous zone	CONZNE	31
Continental shelf area	COSARE	32
Control point	CTRPNT	33
Conveyor	CONVYR	34
Crane	CRANES	35
Current	CURENT	36
Custom zone	CUSZNE	37
Dam	DAMCON	38
Daymark	DAYMAR	39
Deep water route centerline	DWRTCL	40

Deep water route - part	DWRTPT	41
	DEPARE	42
Depth area		
Depth contour	DEPCNT	43
Distance mark	DISMAR	44
Dock area	DOCARE	45
Dredged area	DRGARE	46
Dry dock	DRYDOC	47
		48
Dumping ground	DMPGRD	_
Dyke	DYKCON	49
Exclusive economic zone	EXEZNE	50
Fairway	FAIRWY	51
Fenceline	FNCLNE	52
Ferry route	FERYRT	53
Fishery zone	FSHZNE	54
	FSHFAC	55
Fishing facility		
Fishing ground	FSHGRD	56
Floating dock	FLODOC	57
Fog signal	FOGSIG	58
Fortified structure	FORSTC	59
Free port area	FRPARE	60
Gate	GATCON	61
		-
Gridiron	GRIDRN	62
Harbour area (administrative)	HRBARE	63
Harbour facility	HRBFAC	64
Hulk	HULKES	65
Ice area	ICEARE	66
Incineration area	ICNARE	67
Inshore traffic zone	ISTZNE	68
Lake	LAKARE	69
Lake - shore	LAKSHR	70
Land area	LNDARE	71
Land elevation	LNDELV	72
Land region	LNDRGN	73
Landmark	LNDMRK	74
Light	LIGHTS	75
	LITFLT	76
Light-float		_
Light-vessel	LITVES	77
Local magnetic anomaly	LOCMAG	78
Lock basin	LOKBSN	79
Log pond	LOGPON	80
Magnetic variation	MAGVAR	81
Marine farm/culture	MARCUL	82
Military practice area	MIPARE	83
Mooring/warping facility	MORFAC	84
Navigation line	NAVLNE	85
Obstruction	OBSTRN	86
Offshore platform	OFSPLF	87
Offshore production area	OSPARE	88
Oil barrier	OILBAR	89
Pile	PILPNT	90
Pilot boarding place	PILBOP	91
Pipeline area	PIPARE	92
Pipeline, overhead	PIPOHD	93
Pipeline, submarine/on land	PIPSOL	94
Pontoon	PONTON	95
Precautionary area	PRCARE	96
Production/storage area	PRDARE	97
1 TOUGOIDHISIDIAYE AIEA	INDANE	91

Pylon/bridge support	PYLONS	98
Radar line	RADLNE	99
Radar range	RADRNG	100
Radar reflector	RADRFL	101
Radar station	RADSTA	102
Radar transponder beacon	RTPBCN	103
Radio calling-in point	RDOCAL	104
Radio station	RDOSTA	105
Railway	RAILWY	106
Rapids	RAPIDS	107
Recommended route centerline	RCRTCL	108
Recommended track	RECTRC	109
Recommended traffic lane part	RCTLPT	110
Rescue station	RSCSTA	111
Restricted area	RESARE	112
Retro-reflector	RETRFL	113
River	RIVERS	114
River - bank	RIVBNK	115
Road	ROADWY	116
Runway	RUNWAY	117
Sand waves	SNDWAV	118
Sea area/named water area	SEAARE	119
Sea-plane landing area	SPLARE	120
Seabed area	SBDARE	121
Shoreline Construction	SLCONS	122
Signal station, traffic	SISTAT	123
Signal station, warning	SISTAW	124
Silo/tank	SILTNK	125
Slope topline	SLOTOP	126
Sloping ground	SLOGRD	127
Small craft facility	SMCFAC	128
Sounding	SOUNDG	129
Spring	SPRING	130
Square	SQUARE	131
Straight territorial sea baseline	STSLNE	132
Submarine transit lane	SUBTLN	133
Swept area	SWPARE	134
Territorial sea area	TESARE	135
Tidal stream - harmonic prediction	TS_PRH	136
Tidal stream - non-harmonic prediction	TS_PNH	137
Tidal stream - panal data	TS_PAD	138
Tidal stream - time series	TS_TIS	139
Tide harmonic prediction	T_HMON	140
Tide non-harmonic prediction	T_NHMN	141
Tide time series	T TIMS	142
Tideway	TIDEWY	143
Topmark	TOPMAR	144
Traffic separation line	TSELNE	145
Traffic separation scheme boundary	TSSBND	146
Traffic separation scheme crossing	TSSCRS	147
Traffic separation scheme lane part	TSSLPT	148
Traffic separation zone	TSSRON	149 150
Traffic separation zone	TSEZNE	
Tunnel Two wearests port	TUNNEL	151
Two-way route part	TWRTPT	152
Underwater/awash rock	UWTROC	153
Unsurveyed area	UNSARE	154

Vegetation area	VEGATN	155
Water turbulence	WATTUR	156
Waterfall	WATFAL	157
Weed/Kelp	WEDKLP	158
Wrecks	WRECKS	159
Tidal stream - flood/ebb	TS_FEB	160
Accuracy of data	M_ACCY	300
Compilation scale of data	M_CSCL	301
Coverage	M_COVR	302
Horizontal datum of data	M-HDAT	303
Horizontal datum shift parameters	M_HOPA	304
Nautical publication information	M_NPUB	305
Navigational system of marks	M_NSYS	306
Production information	M_PROD	307
Quality of data	M_QUAL	308
Sounding datum	M_SDAT	309
Survey reliability	M_SREL	310
Units of measurement of data	M_UNIT	311
Vertical datum of data	M_VDAT	312
Aggregation	C_AGGR	400
Association	C_ASSO	401
Stacked on/stacked under	C_STAC	402
Cartographic area	\$AREAS	500
Cartographic line	\$LINES	501
Cartographic symbol	\$CSYMB	502
Compass	\$COMPS	503
Texts	\$TEXTS	504

Attribute:	Reference year for magnetic variation

Acronym: RYRMGV Code: 130

Magnetic variationMAGVAR81Compass\$COMPS503

Attribute:	Restriction		

Acronym: **RESTRN** Code: **131**

Anchorage area	ACHARE	4
Cable area	CBLARE	20
Deep water route part	DWRTPT	41
Dredged area	DRGARE	46
Dumping ground	DMPGRD	48
Fairway	FAIRWY	51
Incineration area	ICNARE	67

Inshore traffic zone	ISTZNE	68
Marine farm/culture	MARCUL	82
Military practice area	MIPARE	83
Offshore production area	OSPARE	88
Pipeline area	PIPARE	92
Precautionary area	PRCARE	96
Restricted area	RESARE	112
Sea-plane landing area	SPLARE	120
Submarine transit lane	SUBTLN	133
Territorial sea area	TESARE	135
Traffic Separation Scheme - Crossing	TSSCRS	147
Traffic Separation Scheme - Lane part	TSSLPT	148
Traffic Separation Scheme - Roundabout	TSSRON	149

Attribute: Scale maximum

Acronym: **SCAMAX** Code: **132**

Administration area (named)	ADMARE	1
Airport area	AIRARE	2
Anchor berth	ACHBRT	3
Anchorage area	ACHARE	4
Beacon, cardinal	BCNCAR	5
Beacon, isolated danger	BCNISD	6
Beacon, lateral	BCNLAT	7
Beacon, safe water	BCNSAW	8
Beacon, special purpose/general	BCNSPP	9
Berth	BERTHS	10
Building, single	BUISGL	12
Built-up area	BUAARE	13
Buoy, cardinal	BOYCAR	14
Buoy, installation	BOYINB	15
Buoy, isolated danger	BOYISD	16
Bridge	BRIDGE	11
Buoy, lateral	BOYLAT	17
Buoy, safe water	BOYSAW	18
Buoy, special purpose/general	BOYSPP	19
Cable area	CBLARE	20
Cable, overhead	CBLOHD	21
Cable, submarine	CBLSUB	22
Canal	CANALS	23
Canal - bank	CANBNK	24
Cargo transhipment area	CTSARE	25
Causeway	CAUSWY	26
Caution area	CTNARE	27
Checkpoint	CHKPNT	28
Coastguard station	CGUSTA	29
Coastline	COALNE	30
Contiguous zone	CONZNE	31
Continental shelf area	COSARE	32
Control point	CTRPNT	33

Crane CRANES 35 Current CURENT 36 Custom zone CUSZNE 37 Dam DAMCON 38 Daymark DAYMAR 39 Deep water route centerline DWRTCL 40 Deep water route - part DWRTPT 41 Depth area DEPARE 42 Depth contour DEPCNT 43 Distance mark DISMAR 44 Dock area DOCARE 45 Dredged area DRGARE 46 Dry dock DRYDOC 47 Dumping ground DMPGRD 48 Dyke DYKCON 49 Exclusive economic zone EXEZNE 50 Fairway FAIRWY 51 Fenceline FNCLNE 52 Ferry route FERYRT 53 Fishery zone FSHZNE 54 Fishing facility FSHGRD 56 Fishing facility FSHGRD 56	Conveyor	CONVYR	34
Custom zone CUSZNE 37 Dam DAMCON 38 Daymark DAYMAR 39 Deep water route centerline DWRTCL 40 Deep water route - part DWRTTCL 40 Deep water route - part DWRTPT 41 Depth area DEPARE 42 Depth contour DEPCNT 43 Distance mark DISMAR 44 Dock area DOCARE 45 Dredged area DRGARE 46 Dry dock DRYDOC 47 Dumping ground DMPGRD 48 Dyke DYKCON 49 Exclusive economic zone EXEZNE 50 Fairway FAIRWY 51 Fenceline FNCLNE 52 Ferry route FERYRT 53 Fishery zone FSHZNE 54 Fishing facility FSHFAC 55 Fishing ground FSHFAC 55 Fog signal FOGSIG 58 Fordified structure FORSTC 59 Fog signal FOGSIG 58 Fortified structure FORSTC 59 Free port area GRIDRN 62 Harbour area (adm	Crane	CRANES	35
Dam DAMCON 38 Daymark DAYMAR 39 Deep water route - part DWRTPT 41 Depth area DEPARE 42 Depth contour DEPCNT 43 Distance mark DISMAR 44 Dock area DCARE 45 Dredged area DRGARE 46 Dry dock DRYDOC 47 Dumping ground DMPGRD 48 Dyke DYKCON 49 Exclusive economic zone EXEZNE 50 Fairway FAIRWY 51 Fenry route FERYRT 53 Fishery zone FSHZNE 54 Fishing facility FSHFAC 55 Fishing ground FSHGRD 56 Floating dock FLODOC 57 Fog signal FOGSIG 58 Fortified structure FORSTC 59 Free port area GRIDRN 62 Gate GATCON 61	Current	CURENT	36
Daymark DAYMAR 39 Deep water route centerline DWRTCL 40 Deep water route - part DWRTPT 41 Depth area DEPARE 42 Depth contour DEPONT 43 Distance mark DISMAR 44 Dock area DCCARE 45 Dredged area DRGARE 46 Dry dock DRYDOC 47 Dumping ground DMPGRD 48 Dykc DYKCON 49 Exclusive economic zone EXEZNE 50 Fairway FAIRWY 51 Fenceline FNCLNE 52 Ferry route FERYRT 53 Fishery zone FSHZNE 54 Fishing facility FSHFAC 55 Fishing facility FSHFAC 55 Fishing facility FSHFAC 55 Fishing facility FSHGRD 56 Floating dock FOCSIG 58 Fortified structure FORSTC	Custom zone	CUSZNE	37
Deep water route centerline DWRTCL 40 Deep water route - part DEPARE 42 Depth area DEPARE 42 Depth contour DEPCNT 43 Distance mark DISMAR 44 Dock area DCCARE 45 Dredged area DRGARE 46 Dry dock DRYDOC 47 Dumping ground DMPGRD 48 Dyke DYKCON 49 Exclusive economic zone EXEZNE 50 Fairway FAIRWY 51 Ferry route FRYRT 53 Fishery Zone FSHZNE 54 Fishing facility FSHFAC 55 Fishing ground FSHGRD 56 Floating dock FLODOC 57 For signal FOGSIG 58 Fortified structure FORSTC 59 Free port area FRPARE 60 Gate GATCON 61 Gridiron GRIDRN <			
Deep water route - part DWRTPT 41 Depth area DEPARE 42 Depth contour DEPCNT 43 Distance mark DISMAR 44 Dock area DCARE 45 Dredged area DRGARE 46 Dry dock DRYDOC 47 Dumping ground DMPGRD 48 Dyke DYKCON 49 Exclusive economic zone EXEZNE 50 Fairway FAIRWY 51 Fenceline FNCLNE 52 Ferry route FERYRT 53 Fishery zone FSHZNE 54 Fishing facility FSHFAC 55 Fishing ground FSHGRD 56 Floating dock FLODOC 57 Fog signal FORSTC 59 Fore port area FRPARE 60 Gate GATCON 61 Gate GATCON 61 Harbour facility HRBARE 63	•		
Depth area DEPARE 42 Depth contour DEPCNT 43 Distance mark DISMAR 44 Dock area DCCARE 45 Dredged area DRGARE 46 Dry dock DRYDCC 47 Dumping ground DMPGRD 48 Dyke DYKCON 49 Exclusive economic zone EXEZNE 50 Fairway FAIRWY 51 Fenceline FNCLNE 52 Ferry route FERYRT 53 Fishery zone FSHZNE 54 Fishing facility FSHGRD 56 Fishing ground FSHGRD 56 Floating dock FLODOC 57 Fog signal FORSIC 59 Fore port area FRPARE 60 Gate GATCON 61 Gridiron GRIDRN 62 Harbour facility HRBARE 63 Harbour facility HRBARE 63 <t< td=""><td>·</td><td></td><td>_</td></t<>	·		_
Depth contour DEPCNT 43 Distance mark DISMAR 44 Dock area DOCARE 45 Dredged area DRGARE 46 Dry dock DRYDOC 47 Dumping ground DMPGRD 48 Dyke DYKCON 49 Exclusive economic zone EXEZNE 50 Fairway FAIRWY 51 Fenceline FNCLNE 52 Ferry route FERYRT 53 Fishery zone FSHZNE 54 Fishing facility FSHGRD 56 Fishing ground FSHGRD 56 Floating dock FLODOC 57 Fog signal FORSTC 59 Fortified structure FORSTC 59 Free port area FRPARE 60 Gate GATCON 61 Gridiron GRIDRN 62 Harbour facility HRBARE 63 Ice area ICEARE 66 <			
Distance mark DISMAR 44 Dock area DOCARE 45 Dredged area DRGARE 46 Dry dock DRYDOC 47 Dumping ground DMPGRD 48 Dyke DYKCON 49 Exclusive economic zone EXEZNE 50 Fairway FAIRWY 51 Fenceline FNCLNE 52 Ferry route FERYRT 53 Fishery zone FSHZNE 54 Fishing facility FSHFAC 55 Fishing ground FSHGRD 56 Floating dock FLODOC 57 Fog signal FOGSIG 58 Fortified structure FORSTC 59 Free port area GRED 60 Gate GATCON 61 Gridiron GRIDRN 62 Harbour facility HRBARE 63 Harbour facility HRBARE 64 Hulk HULKES 65			
Dock area DOCARE 45 Dredged area DRGARE 46 Dry dock DRYDOC 47 Dumping ground DMPGRD 48 Dyke DYKCON 49 Exclusive economic zone EXEZNE 50 Fairway FAIRWY 51 Fenceline FNCLNE 52 Ferry route FERYRT 53 Fishery zone FSHZNE 54 Fishing facility FSHFAC 55 Fishing ground FSHGRD 56 Floating dock FLODOC 57 Fog signal FOGSIG 58 Fortified structure FORSTC 59 Free port area FRPARE 60 Gate GATCON 61 Gridiron GRIDRN 62 Harbour facility HRBARE 63 Harbour facility HRBARE 63 Harbour facility HRBARE 63 Harbour facility HRBARE 63			
Dredged area DRGARE 46 Dry dock DRYDOC 47 Dumping ground DMPGRD 48 Dyke DYKCON 49 Exclusive economic zone EXEZNE 50 Fairway FAIRWY 51 Fenceline FNCLNE 52 Ferry route FERYRT 53 Fishery zone FSHZNE 54 Fishing facility FSHFAC 55 Fishing ground FSHGRD 56 Floating dock FLODOC 57 Fog signal FOGSIG 58 Fortified structure FORSTC 59 Free port area FRPARE 60 Gate GATCON 61 Gridiron GRIDRN 62 Harbour area (administrative) HRBARE 63 Harbour facility HRBARE 63 Harbour facility HRBARE 63 Ica area ICEARE 66 Incineration area ICEARE			
Dry dock DRYDOC 47 Dumping ground DMPGRD 48 Dyke DYKCON 49 Exclusive economic zone EXEZNE 50 Fairway FAIRWY 51 Fenceline FNCLNE 52 Ferry route FERYRT 53 Fishery zone FSHZNE 54 Fishing facility FSHFAC 55 Fishing ground FSHGRD 56 Floating dock FLODOC 57 Fog signal FOGSIG 58 Fortified structure FORSTC 59 Free port area FRPARE 60 Gate GATCON 61 Gridiron GRIDRN 62 Harbour area (administrative) HRBARE 63 Harbour facility HRBFAC 64 Hulk HULKES 65 Ica area ICEARE 66 Incineration area ICNARE 67 Inshore traffic zone ISTZNE			
Dumping ground DMPGRD 48 Dyke DYKCON 49 Exclusive economic zone EXEZNE 50 Fairway FAIRWY 51 Fenceline FNCLNE 52 Ferry route FERYRT 53 Fishery zone FSHZNE 54 Fishing facility FSHFAC 55 Fishing ground FSHGRD 56 Floating dock FLODOC 57 Fog signal FOGSIG 58 Fortified structure FORSTC 59 Free port area FRPARE 60 Gate GATCON 61 Gridiron GRIDRN 62 Harbour area (administrative) HRBARE 63 Harbour facility HRBFAC 64 Hulk HULKES 65 Ice area ICEARE 66 Incineration area ICNARE 67 Inshore traffic zone ISTZNE 68 Lake LAKSHR 70 </td <td></td> <td></td> <td></td>			
Dyke DYKCON 49 Exclusive economic zone EXEZNE 50 Fairway FAIRWY 51 Fenceline FNCLNE 52 Ferry route FERYRT 53 Fishery zone FSHZNE 54 Fishing facility FSHFAC 55 Fishing ground FSHGRD 56 Floating dock FLODOC 57 Fog signal FOGSIG 58 Fortified structure FORSTC 59 Free port area FRPARE 60 Gate GATCON 61 Gridiron GRIDRN 62 Harbour area (administrative) HRBARE 63 Harbour area (administrative) HRBFAC 64 Hulk HULKES 65 Ice area ICEARE 66 Incineration area ICEARE 66 Incineration area ICNARE 67 Inshore traffic zone ISTZNE 68 Lake - shore LAKS			
Exclusive economic zone Fairway Fairway FalrRWY FalrRWY Fenceline Fenceline Fenceline Ferry route Ferry route FERYRT Fairbery zone FSHZNE FSHZNE FSHFAC Fishing dracility FSHFAC Fishing ground FSHGRD Folating dock FLODOC F7 Fog signal FOGSIG FORSTC Fog signal FOGSIG FORSTC FO		_	_
Fairway FAIRWY 51 Fenceline FNCLNE 52 Ferry route FERYRT 53 Fishery zone FSHZNE 54 Fishing facility FSHGRD 56 Fishing ground FSHGRD 56 Floating dock FLODOC 57 Fog signal FOGSIG 58 Fortified structure FORSTC 59 Free port area FRPARE 60 Gate GATCON 61 Gridiron GRIDRN 62 Harbour area (administrative) HRBARE 63 Harbour facility HRBARE 63 Harbour facility HRBFAC 64 Hulk HULKES 65 Ice area ICEARE 66 Incineration area ICNARE 67 Inshore traffic zone ISTZNE 68 Lake - shore LAKARE 69 Lake - shore LAKSHR 70 Land elevation LNDEN			_
Fenceline FNCLNE 52 Ferry route FERYRT 53 Fishery zone FSHZNE 54 Fishing facility FSHGRD 55 Fishing ground FSHGRD 56 Floating dock FLODOC 57 Fog signal FOGSIG 58 Fortified structure FORSTC 59 Free port area FRPARE 60 Gate GATCON 61 Gridiron GRIDRN 62 Harbour facility HRBARE 63 Harbour facility HRBFAC 64 Hulk HULKES 65 Ice area ICEARE 66 Incineration area ICEARE 67 Inshore traffic zone ISTZNE 68 Lake LAKARE 69 Lake LAKARE 69 Lade - shore LAKSHR 70 Land area LNDARE 71 Land devation LNDELV 72 L			
Ferry route FERYRT 53 Fishery zone FSHZNE 54 Fishing facility FSHFAC 55 Fishing ground FSHGRD 56 Floating dock FLODOC 57 Fog signal FOGSIG 58 Fortified structure FORSTC 59 Free port area FRPARE 60 Gate GATCON 61 Gridiron GRIDRN 62 Harbour area (administrative) HRBARE 63 Harbour facility HRBARE 63 Harbour facility HRBFAC 64 Hulk HULKES 65 Ice area ICEARE 66 Incineration area ICNARE 67 Inshore traffic zone ISTZNE 68 Lake LAKARE 69 Lake LAKARE 69 Lake LAKARE 69 Lake LAKSHR 70 Land area LNDELV 1 <tr< td=""><td>•</td><td></td><td></td></tr<>	•		
Fishery zone Fishing facility Fishing ground Floating dock FloDOC For Fog signal FOGSIG FoRSTC Fog signal FORSTC Fog signal FORSTC FoRSTC For Free port area FRPARE GO Gate GATCON G1 Gridiron GRIDRN G2 Harbour area (administrative) HRBARE G3 Harbour facility HRBFAC HULKES G5 Ice area ICEARE G6 Incineration area ICNARE ICHARE ICHARE G7 Inshore traffic zone LAKARE LAKARE LAKARE LAKARE G9 LAK-shore LAKSHR T0 Land area LNDARE T1 Land elevation LNDARE T1 Land elevation LNDREN T3 Landmark LIDMRK T4 Light LIGHTS T5 Light-float LITFLT T6 Light-vessel LOCMAG T8 LOCMAG T8 LOCMAG T8 LOCMAG T8 LOCMAG T8 LOCK basin LOCMAG T8 LOCMAG T8 LOGPON Magnetic variation MAGVAR MI Marine farm/culture MARCUL MI Military practice area MIPARE MIPARE MARCUL MI MIItary practice area MIPARE MIPARE MARCUL MI MIItary practice area MIPARE MIPARE MARCUL MI MORFAC MANUNE MORFAC MORFAC MANUNE MORFAC MANUNE MORFAC MANUNE MORFAC MORF			
Fishing facility FSHFAC 55 Fishing ground FSHGRD 56 Floating dock FLODOC 57 Fog signal FOGSIG 58 Fortified structure FORSTC 59 Free port area FRPARE 60 Gate GATCON 61 Gridiron GRIDRN 62 Harbour area (administrative) HRBARE 63 Harbour facility HRBFAC 64 Hulk HULKES 65 Ice area ICEARE 66 Incineration area ICNARE 67 Inshore traffic zone ISTZNE 68 Lake LAKARE 69 Lake - shore LAKARE 69 Lake - shore LAKSHR 70 Land area LNDELV 72 Land region LNDRON 73 Landmark LNDRON 73 Light-float LITVE 75 Light-ressel LITVES 77	•		
Fishing ground Fosting dock Flodoc Floating dock Flodoc For signal Fortified structure Forst 58 Free port area Gate Gate Gate Gate Gridiron Gridiron HRBARE G3 Harbour facility HRBFAC G4 Hulk HULKES G5 Ice area ICEARE Inshore traffic zone Lake Lake Lake Lake - shore Land area LNDARE Land elevation Land region LNDELV T2 Land region LNDRGN T3 Landmark Light Light-float Light-float Light-float Light-vessel Local magnetic anomaly Lock basin Lock basin Logpond Magoriar, Variet Marcul Marine farm/culture Marcul Military practice area Milotare More patient More patient More Ac More A			
Floating dock	• •		
Fog signal FOGSIG 58 Fortified structure FORSTC 59 Free port area FRPARE 60 Gate GATCON 61 Gridiron GRIDRN 62 Harbour area (administrative) HRBARE 63 Harbour facility HRBFAC 64 Hulk HULKES 65 Ice area ICEARE 66 Incineration area ICNARE 67 Inshore traffic zone ISTZNE 68 Lake LAKARE 69 Lake - shore LAKARE 69 Lake - shore LAKARE 69 Lake - shore LAKARE 69 Lade - shore LAKSHR 70 Land area LNDARE 71 Land elevation LNDRELV 72 Land region LNDRGN 73 Landmark LNDRGN 73 Light-float LITFLT 76 Light-vessel LITFLT 76 <		FLODOC	57
Free port area FRPARE 60 Gate GATCON 61 Gridiron GRIDRN 62 Harbour area (administrative) HRBARE 63 Harbour facility HRBFAC 64 Hulk HULKES 65 Ice area ICEARE 66 Incineration area ICNARE 67 Inshore traffic zone ISTZNE 68 Lake LAKARE 69 Lake - shore LAKSHR 70 Land area LNDARE 71 Land elevation LNDELV 72 Land region LNDRGN 73 Landmark LNDMRK 74 Light LIGHTS 75 Light-float LITFLT 76 Light-vessel LITVES 77 Local magnetic anomaly LOCMAG 78 Lock basin LOCMAG 78 Log pond LOGPON 80 Magnetic variation MAGVAR 81 <td><u> </u></td> <td>FOGSIG</td> <td>58</td>	<u> </u>	FOGSIG	58
Gate GATCON 61 Gridiron GRIDRN 62 Harbour area (administrative) HRBARE 63 Harbour facility HRBFAC 64 Hulk HULKES 65 Ice area ICEARE 66 Incineration area ICNARE 67 Inshore traffic zone ISTZNE 68 Lake LAKARE 69 Lake - shore LAKSHR 70 Land area LNDARE 71 Land elevation LNDELV 72 Land region LNDRGN 73 Landmark LNDMRK 74 Light LIGHTS 75 Light-float LITFLT 76 Light-vessel LITVES 77 Local magnetic anomaly LOCMAG 78 Lock basin LOCMAG 78 Log pond LOGPON 80 Magnetic variation MAGVAR 81 Marine farm/culture MARCUL 82		FORSTC	59
Gridiron GRIDRN 62 Harbour area (administrative) HRBARE 63 Harbour facility HRBFAC 64 Hulk HULKES 65 Ice area ICEARE 66 Incineration area ICNARE 67 Inshore traffic zone ISTZNE 68 Lake LAKARE 69 Lake - shore LAKSHR 70 Land area LNDARE 71 Land elevation LNDELV 72 Land region LNDRGN 73 Landmark LNDMRK 74 Light LIGHTS 75 Light-float LITFLT 76 Light-vessel LITVES 77 Local magnetic anomaly LOCMAG 78 Lock basin LOCMAG 78 Log pond LOGPON 80 Magnetic variation MAGVAR 81 Marine farm/culture MARCUL 82 Military practice area MIPARE	Free port area	FRPARE	60
Harbour area (administrative) Harbour facility Harbour facility Hulk Hulk Hulk HulkES 65 Ice area ICEARE 66 Incineration area ICNARE 67 Inshore traffic zone Lake Lake Lake Lake LaksHR Cand area Lind area Lind area Lind area Lind region Lind Type Land region Lind Light Light Light-float Light-vessel Light-vessel Lock basin Lock basin Log pond Magnetic variation Magvar Marine farm/culture Miltitary practice area Miltitary practice area Moring/warping facility Navigation Irea Offshore production area OSPARE 88 Oil barrier Navigation Ine OSPARE 88 Oil barrier Navigation Ine OSPARE 88 OILBAR Navigation Ine OSPARE 88 OILBAR 89	Gate	GATCON	61
Harbour facility Hulk Hulk HulkES G5 Ice area ICEARE G6 Incineration area ICNARE Inshore traffic zone ISTZNE EARE Lake Lake LAKARE LAKSHR LAKSHR LANDARE T1 Land area LNDARE T1 Land elevation LNDELV LANDELV T2 Land region LNDRGN T3 Landmark LIGHTS Light LIGHTS T5 Light-float LITFLT Light-vessel LITVES LITVES T7 Local magnetic anomaly LOCMAG LOGPON Magnetic variation MAGVAR Marine farm/culture MARCUL Military practice area Mooring/warping facility Morfac Morfshore platform Offshore production area Oil barrier New Mag No Corpare New Mag No C	Gridiron	GRIDRN	62
Hulk HULKES 65 Ice area ICEARE 66 Incineration area ICNARE 67 Inshore traffic zone ISTZNE 68 Lake LAKARE 69 Lake - shore LAKSHR 70 Land area LNDARE 71 Land elevation LNDELV 72 Land region LNDRGN 73 Landmark LNDMRK 74 Light LIGHTS 75 Light-float LITFLT 76 Light-vessel LITVES 77 Local magnetic anomaly LOCMAG 78 Lock basin LOKBSN 79 Log pond LOGPON 80 Magnetic variation MAGVAR 81 Marine farm/culture MARCUL 82 Military practice area MIPARE 83 Mooring/warping facility MORFAC 84 Navigation line NAVLNE 85 Obstruction OBSTRN	Harbour area (administrative)	HRBARE	63
Ice area ICEARE 66 Incineration area ICNARE 67 Inshore traffic zone ISTZNE 68 Lake LAKARE 69 Lake - shore LAKSHR 70 Land area LNDARE 71 Land elevation LNDELV 72 Land region LNDRGN 73 Landmark LNDMRK 74 Light LIGHTS 75 Light-float LITFLT 76 Light-vessel LITVES 77 Local magnetic anomaly LOCMAG 78 Lock basin LOKBSN 79 Log pond LOGPON 80 Magnetic variation MAGVAR 81 Marine farm/culture MARCUL 82 Military practice area MIPARE 83 Mooring/warping facility MORFAC 84 Navigation line NAVLNE 85 Obstruction OBSTRN 86 Offshore production area			_
Incineration area ICNARE 67 Inshore traffic zone ISTZNE 68 Lake LAKARE 69 Lake - shore LAKSHR 70 Land area LNDARE 71 Land elevation LNDELV 72 Land region LNDRGN 73 Landmark LNDMRK 74 Light LIGHTS 75 Light-float LITFLT 76 Light-vessel LITVES 77 Local magnetic anomaly LOCMAG 78 Lock basin LOKBSN 79 Log pond LOGPON 80 Magnetic variation MAGVAR 81 Marine farm/culture MARCUL 82 Military practice area MIPARE 83 Mooring/warping facility MORFAC 84 Navigation line OBSTRN 86 Offshore platform OFSPLF 87 Offshore production area OSPARE 88 Oil barrier			
Inshore traffic zone ISTZNE 68 Lake LAKARE 69 Lake - shore LAKSHR 70 Land area LNDARE 71 Land elevation LNDELV 72 Land region LNDRGN 73 Landmark LNDMRK 74 Light LIGHTS 75 Light-float LITFLT 76 Light-vessel LITVES 77 Local magnetic anomaly LOCMAG 78 Lock basin LOKBSN 79 Log pond LOGPON 80 Magnetic variation MAGVAR 81 Marine farm/culture MARCUL 82 Military practice area MIPARE 83 Mooring/warping facility MORFAC 84 Navigation line NAVLNE 85 Obstruction OBSTRN 86 Offshore platform OFSPLF 87 Offshore production area OSPARE 88 Oil barrier <			
Lake LAKARE 69 Lake - shore LAKSHR 70 Land area LNDARE 71 Land elevation LNDELV 72 Land region LNDRGN 73 Landmark LNDMRK 74 Light LIGHTS 75 Light-float LITFLT 76 Light-vessel LITVES 77 Local magnetic anomaly LOCMAG 78 Lock basin LOKBSN 79 Log pond LOGPON 80 Magnetic variation MAGVAR 81 Marine farm/culture MARCUL 82 Military practice area MIPARE 83 Mooring/warping facility MORFAC 84 Navigation line NAVLNE 85 Obstruction OBSTRN 86 Offshore platform OFSPLF 87 Offshore production area OSPARE 88 Oil barrier OILBAR 89			_
Lake - shore LAKSHR 70 Land area LNDARE 71 Land elevation LNDELV 72 Land region LNDRGN 73 Landmark LNDMRK 74 Light LIGHTS 75 Light-float LITFLT 76 Light-vessel LITVES 77 Local magnetic anomaly LOCMAG 78 Lock basin LOKBSN 79 Log pond LOGPON 80 Magnetic variation MAGVAR 81 Marine farm/culture MARCUL 82 Military practice area MIPARE 83 Mooring/warping facility MORFAC 84 Navigation line NAVLNE 85 Obstruction OBSTRN 86 Offshore platform OFSPLF 87 Offshore production area OSPARE 88 Oil barrier OILBAR 89			
Land area LNDARE 71 Land elevation LNDELV 72 Land region LNDRGN 73 Landmark LNDMRK 74 Light LIGHTS 75 Light-float LITFLT 76 Light-vessel LITVES 77 Local magnetic anomaly LOCMAG 78 Lock basin LOKBSN 79 Log pond LOGPON 80 Magnetic variation MAGVAR 81 Marine farm/culture MARCUL 82 Military practice area MIPARE 83 Mooring/warping facility MORFAC 84 Navigation line NAVLNE 85 Obstruction OBSTRN 86 Offshore platform OFSPLF 87 Offshore production area OSPARE 88 Oil barrier OILBAR 89			
Land elevation LNDELV 72 Land region LNDRGN 73 Landmark LNDMRK 74 Light LIGHTS 75 Light-float LITFLT 76 Light-vessel LITVES 77 Local magnetic anomaly LOCMAG 78 Lock basin LOKBSN 79 Log pond LOGPON 80 Magnetic variation MAGVAR 81 Marine farm/culture MARCUL 82 Military practice area MIPARE 83 Mooring/warping facility MORFAC 84 Navigation line NAVLNE 85 Obstruction OBSTRN 86 Offshore platform OFSPLF 87 Offshore production area OSPARE 88 Oil barrier OILBAR 89			_
Land region LNDRGN 73 Landmark LNDMRK 74 Light LIGHTS 75 Light-float LITFLT 76 Light-vessel LITVES 77 Local magnetic anomaly LOCMAG 78 Lock basin LOKBSN 79 Log pond LOGPON 80 Magnetic variation MAGVAR 81 Marine farm/culture MARCUL 82 Military practice area MIPARE 83 Mooring/warping facility MORFAC 84 Navigation line NAVLNE 85 Obstruction OBSTRN 86 Offshore platform OFSPLF 87 Offshore production area OSPARE 88 Oil barrier OILBAR 89			
Landmark LNDMRK 74 Light LIGHTS 75 Light-float LITFLT 76 Light-vessel LITVES 77 Local magnetic anomaly LOCMAG 78 Lock basin LOKBSN 79 Log pond LOGPON 80 Magnetic variation MAGVAR 81 Marine farm/culture MARCUL 82 Military practice area MIPARE 83 Mooring/warping facility MORFAC 84 Navigation line NAVLNE 85 Obstruction OBSTRN 86 Offshore platform OFSPLF 87 Offshore production area OSPARE 88 Oil barrier OILBAR 89			
Light LIGHTS 75 Light-float LITFLT 76 Light-vessel LITVES 77 Local magnetic anomaly LOCMAG 78 Lock basin LOKBSN 79 Log pond LOGPON 80 Magnetic variation MAGVAR 81 Marine farm/culture MARCUL 82 Military practice area MIPARE 83 Mooring/warping facility MORFAC 84 Navigation line NAVLNE 85 Obstruction OBSTRN 86 Offshore platform OFSPLF 87 Offshore production area OSPARE 88 Oil barrier OILBAR 89			
Light-float LITFLT 76 Light-vessel LITVES 77 Local magnetic anomaly LOCMAG 78 Lock basin LOKBSN 79 Log pond LOGPON 80 Magnetic variation MAGVAR 81 Marine farm/culture MARCUL 82 Military practice area MIPARE 83 Mooring/warping facility MORFAC 84 Navigation line NAVLNE 85 Obstruction OBSTRN 86 Offshore platform OFSPLF 87 Offshore production area OSPARE 88 Oil barrier OILBAR 89			
Light-vessel LITVES 77 Local magnetic anomaly LOCMAG 78 Lock basin LOKBSN 79 Log pond LOGPON 80 Magnetic variation MAGVAR 81 Marine farm/culture MARCUL 82 Military practice area MIPARE 83 Mooring/warping facility MORFAC 84 Navigation line NAVLNE 85 Obstruction OBSTRN 86 Offshore platform OFSPLF 87 Offshore production area OSPARE 88 Oil barrier OILBAR 89			
Local magnetic anomaly LOCMAG 78 Lock basin LOKBSN 79 Log pond LOGPON 80 Magnetic variation MAGVAR 81 Marine farm/culture MARCUL 82 Military practice area MIPARE 83 Mooring/warping facility MORFAC 84 Navigation line NAVLNE 85 Obstruction OBSTRN 86 Offshore platform OFSPLF 87 Offshore production area OSPARE 88 Oil barrier OILBAR 89			
Lock basin LOKBSN 79 Log pond LOGPON 80 Magnetic variation MAGVAR 81 Marine farm/culture MARCUL 82 Military practice area MIPARE 83 Mooring/warping facility MORFAC 84 Navigation line NAVLNE 85 Obstruction OBSTRN 86 Offshore platform OFSPLF 87 Offshore production area OSPARE 88 Oil barrier OILBAR 89	•		
Log pond LOGPON 80 Magnetic variation MAGVAR 81 Marine farm/culture MARCUL 82 Military practice area MIPARE 83 Mooring/warping facility MORFAC 84 Navigation line NAVLNE 85 Obstruction OBSTRN 86 Offshore platform OFSPLF 87 Offshore production area OSPARE 88 Oil barrier OILBAR 89			
Magnetic variation MAGVAR 81 Marine farm/culture MARCUL 82 Military practice area MIPARE 83 Mooring/warping facility MORFAC 84 Navigation line NAVLNE 85 Obstruction OBSTRN 86 Offshore platform OFSPLF 87 Offshore production area OSPARE 88 Oil barrier OILBAR 89	Log pond		
Marine farm/culture MARCUL 82 Military practice area MIPARE 83 Mooring/warping facility MORFAC 84 Navigation line NAVLNE 85 Obstruction OBSTRN 86 Offshore platform OFSPLF 87 Offshore production area OSPARE 88 Oil barrier OILBAR 89			81
Mooring/warping facilityMORFAC84Navigation lineNAVLNE85ObstructionOBSTRN86Offshore platformOFSPLF87Offshore production areaOSPARE88Oil barrierOILBAR89		MARCUL	82
Navigation lineNAVLNE85ObstructionOBSTRN86Offshore platformOFSPLF87Offshore production areaOSPARE88Oil barrierOILBAR89	Military practice area	MIPARE	83
ObstructionOBSTRN86Offshore platformOFSPLF87Offshore production areaOSPARE88Oil barrierOILBAR89		MORFAC	
Offshore platformOFSPLF87Offshore production areaOSPARE88Oil barrierOILBAR89			
Offshore production area OSPARE 88 Oil barrier OILBAR 89			
Oil barrier OILBAR 89	•		
PILPNI 90			
	PIIE	PILPNI	90

Pilot boarding place Pipeline area Pipeline, overhead Pipeline, submarine/on land Pontoon Precautionary area Production/storage area Pylon/bridge support Radar line Radar range Radar reflector Radar station Radar transponder beacon Radio calling-in point Radio station Railway Rapids Recommended route centerline Recommended track Recommended traffic lane part Rescue station Restricted area Retro-reflector River River - bank	PILBOP PIPARE PIPOHD PIPSOL PONTON PRCARE PRDARE PYLONS RADLNE RADRNG RADRFL RADSTA RTPBCN RDOCAL RDOSTA RAILWY RAPIDS RCRTCL RECTRC RCTLPT RSCSTA RESARE RETRFL RIVERS RIVBNK	91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113
River - bank Road	RIVBNK ROADWY	115 116
Runway	RUNWAY	117
Sand waves	SNDWAV	118
Sea area/named water area	SEAARE	119
Sea-plane landing area	SPLARE	120
Seabed area	SBDARE	121
Shoreline Construction	SLCONS	122
Signal station, traffic	SISTAT	123
Signal station, warning	SISTAW	124
Silo/tank	SILTNK	125
Slope topline	SLOTOP	126
Sloping ground	SLOGRD	127
Small craft facility	SMCFAC	128
Sounding	SOUNDG	129
Spring	SPRING	130
Square	SQUARE	131
Straight territorial sea baseline	STSLNE	132
Submarine transit lane	SUBTLN	133
Swept area	SWPARE	134
Territoria sea area	TESARE	135
Tidal stream - flood/ebb	TS_FEB	160
Tidal stream - harmonic prediction	TS_PRH	136
Tidal stream - non-harmonic prediction	TS_PNH	137
Tidal stream - panal data	TS_PAD	138
Tidal stream - time series	TS_TIS	139
Tide harmonic prediction	T_HMON	140
Tide non-harmonic prediction	T_NHMN	141
Tide time series	T_TIMS	142
Tideway	TIDEWY	143
Topmark Traffic separation line	TOPMAR TSELNE	144 145
	IOLLINE	173

Traffic separation scheme boundary Traffic separation scheme crossing Traffic separation scheme lane part	TSSBND TSSCRS TSSLPT	146 147 148
Traffic separation scheme roundabout Traffic separation zone	TSSRON TSEZNE	149 150
Tunnel	TUNNEL	151
Two-way route part	TWRTPT	152
Underwater/awash rock	UWTROC	153
Unsurveyed area	UNSARE	154
Vegetation area	VEGATN	155
Water turbulence	WATTUR	156
Waterfall	WATFAL	157
Weed/Kelp	WEDKLP	158
Wrecks	WRECKS	159
Horizontal datum shift parameters	M_HOPA	304
Navigational system of marks	M_NSYS	306
Aggregation	C_AGGR	400
Association	C_ASSO	401
Stacked on/stacked under	C_STAC	402
Cartographic area	\$AREAS	500
Cartographic line	\$LINES	501
Cartographic symbol	\$CSYMB	502
Compass	\$COMPS	503
Texts	\$TEXTS	504

Attribute:	Scale minimum

Acronym: **SCAMIN** Code: **133**

Administration area (named) Airport area Anchor berth Anchorage area Beacon, cardinal Beacon, isolated danger Beacon, lateral Beacon, safe water Beacon, special purpose/general Berth Bridge Building, single Built-up area Buoy, cardinal Buoy, installation Buoy, isolated danger Buoy, safe water Buoy, safe water Buoy, special purpose/general Cable area Cable overhead	ADMARE AIRARE ACHBRT ACHARE BCNCAR BCNISD BCNLAT BCNSAW BCNSPP BERTHS BRIDGE BUISGL BUAARE BOYCAR BOYINB BOYISD BOYLAT BOYSAW BOYSPP CBLARE CRI OHD	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21
Cable area Cable, overhead Cable, submarine	CBLARE CBLOHD CBLSUB	20 21 22

Canal	CANALS	23
Canal - bank	CANBNK	24
	-	
Cargo transhipment area	CTSARE	25
Causeway	CAUSWY	26
Caution area	CTNARE	27
Checkpoint	CHKPNT	28
Coastguard station	CGUSTA	29
Coastline	COALNE	30
Contiguous zone	CONZNE	31
Continental shelf area	COSARE	32
Control point	CTRPNT	33
Conveyor	CONVYR	34
Crane	CRANES	35
Current	CURENT	36
Custom zone	CUSZNE	37
Dam	DAMCON	38
	DAYMAR	
Daymark		39
Deep water route centerline	DWRTCL	40
Deep water route - part	DWRTPT	41
Depth area	DEPARE	42
Depth contour	DEPCNT	43
Distance mark	DISMAR	44
Dock area	DOCARE	45
		46
Dredged area	DRGARE	_
Dry dock	DRYDOC	47
Dumping ground	DMPGRD	48
Dyke	DYKCON	49
Exclusive economic zone	EXEZNE	50
Fairway	FAIRWY	51
Fenceline	FNCLNE	52
Ferry route	FERYRT	53
•	FSHZNE	54
Fishery zone		
Fishing facility	FSHFAC	55
Fishing ground	FSHGRD	56
Floating dock	FLODOC	57
Fog signal	FOGSIG	58
Fortified structure	FORSTC	59
Free port area	FRPARE	60
Gate	GATCON	61
Gridiron	GRIDRN	62
Harbour area (administrative)	HRBARE	63
Harbour facility	HRBFAC	64
Hulk	HULKES	65
Ice area	ICEARE	66
Incineration area	ICNARE	67
Inshore traffic zone	ISTZNE	68
Lake	LAKARE	69
Lake - shore	LAKSHR	70
Land area	LNDARE	71
Land elevation	LNDELV	72
Land region	LNDRGN	73
Landmark	LNDMRK	74
Light	LIGHTS	75
Light-float	LITFLT	76
Light-vessel	LITVES	77
Local magnetic anomaly	LOCMAG	78
Lock basin		79
LUCK DASIII	LOKBSN	19

Log pond	LOGPON	80
Magnetic variation	MAGVAR	81
Marine farm/culture	MARCUL	82
Military practice area	MIPARE	83
Mooring/warping facility	MORFAC	84
Navigation line	NAVLNE	85
Obstruction	OBSTRN	86
	OFSPLF	87
Offshore platform		
Offshore production area	OSPARE	88
Oil barrier	OILBAR	89
Pile	PILPNT	90
Pilot boarding place	PILBOP	91
Pipeline area	PIPARE	92
Pipeline, overhead	PIPOHD	93
Pipeline, submarine/on land	PIPSOL	94
Pontoon	PONTON	95
Precautionary area	PRCARE	96
		97
Production/storage area	PRDARE	
Pylon/bridge support	PYLONS	98
Radar line	RADLNE	99
Radar range	RADRNG	100
Radar reflector	RADRFL	101
Radar station	RADSTA	102
Radar transponder beacon	RTPBCN	103
	_	
Radio calling-in point	RDOCAL	104
Radio station	RDOSTA	105
Railway	RAILWY	106
•		
Rapids	RAPIDS	107
Recommended route centerline	RCRTCL	108
Recommended track	RECTRC	109
	RCTLPT	110
Recommended traffic lane part		
Rescue station	RSCSTA	111
Restricted area	RESARE	112
Retro-reflector	RETRFL	113
River	RIVERS	114
River - bank	RIVBNK	115
River - bank	RIVBNK	115
Road		
	ROADWY	116
Runway	RUNWAY	117
Sand waves	SNDWAV	118
Sea area/named water area	SEAARE	119
Sea-plane landing area	SPLARE	120
Seabed area	SBDARE	121
Shoreline Construction	SLCONS	122
	SISTAT	123
Signal station, traffic		
Signal station, warning	SISTAW	124
Silo/tank	SILTNK	125
Slope topline	SLOTOP	126
Sloping ground	SLOGRD	127
Small craft facility	SMCFAC	128
Sounding	SOUNDG	129
Spring	SPRING	130
Square	SQUARE	131
Straight territorial sea baseline	STSLNE	132
Submarine transit lane	SUBTLN	133
Swept area	SWPARE	134
Territoria sea area	TESARE	135

Tidal stream - flood/ebb	TS_FEB	160
Tidal stream - harmonic prediction	TS_PRH	136
Tidal stream - non-harmonic prediction	TS_PNH	137
Tidal stream - panal data	TS_PAD	138
Tidal stream - time series	TS_TIS	139
Tide harmonic prediction	T_HMON	140
Tide non-harmonic prediction	T_NHMN	141
Tide time series	T_TIMS	142
Tideway	TIDEWY	143
Topmark	TOPMAR	144
Traffic separation line	TSELNE	145
Traffic separation scheme boundary	TSSBND	146
Traffic separation scheme crossing	TSSCRS	147
Traffic separation scheme lane part	TSSLPT	148
Traffic separation scheme roundabout	TSSRON	149
Traffic separation zone	TSEZNE	150
Tunnel	TUNNEL	151
Two-way route part	TWRTPT	152
Underwater/awash rock	UWTROC	153
Unsurveyed area	UNSARE	154
Vegetation area	VEGATN	155
Water turbulence	WATTUR	156
Waterfall	WATFAL	157
Weed/Kelp	WEDKLP	158
Wrecks	WRECKS	159
Horizontal datum shift parameters	M_HOPA	304
Navigational system of marks	M_NSYS	306
Aggregation	C_AGGR	400
Association	C_ASSO	401
Stacked on/stacked under	C_STAC	402
Cartographic area	\$AREAS	500
Cartographic line	\$LINES	501
Cartographic symbol	\$CSYMB	502
Compass	\$COMPS	503
Texts	\$TEXTS	504

Attribute:	Scale value 1

Acronym: SCVAL1 Code: 134

Survey reliability M_SREL 310

Acronym: **SCVAL2** Code: **135**

Survey reliability M_SREL 310

Attribute: Sector limit one

Acronym: **SECTR1** Code: **136**

Light LIGHTS 75
Radar transponder beacon RTPBCN 103

Attribute: Sector limit two

Acronym: **SECTR2** Code: **137**

Light LIGHTS 75
Radar transponder beacon RTPBCN 103

Attribute: Shift parameters

Acronym: SHIPAM Code: 138

Horizontal datum shift parameters M_HOPA 304

Attribute: Signal frequency

Acronym: SIGFRQ Code: 139

Fog signal FOGSIG 58 Radio station RDOSTA 105 B.62

Attribute:	Signal generation

Acronym: **SIGGEN** Code: **140**

Fog signal FOGSIG 58

Attribute: Signal group

Acronym: SIGGRP Code: 141

Fog signalFOGSIG58LightLIGHTS75Radar transponder beaconRTPBCN103

Attribute: Signal period

Acronym: SIGPER Code: 142

Fog signal FOGSIG 58 Light LIGHTS 75

Attribute: Signal sequence

Acronym: SIGSEQ Code: 143

Fog signalFOGSIG58LightLIGHTS75Radar transponder beaconRTPBCN103

Attribute: Sounding accuracy

Acronym: **SOUACC** Code: **144**

Attributes/Object	Classes	Cross	Reference
Allibutes/Object	Classes	C1055	Reference

B.63

Berth	BERTHS	10
Deep water route centerline	DWRTCL	40
Deep water route - part	DWRTPT	41
Depth area	DEPARE	42
Dredged area	DRGARE	46
Dry dock	DRYDOC	47
Fairway	FAIRWY	51
Gate	GATCON	61
Marine farm/culture	MARCUL	82
Obstruction	OBSTRN	86
Recommended route centerline	RCRTCL	108
Recommended track	RECTRC	109
Sounding	SOUNDG	129
Swept area	SWPARE	134
Two-way route part	TWRTPT	152
Underwater/awash rock	UWTROC	153
Wrecks	WRECKS	159
Accuracy of data	M_ACCY	300
Quality of data	M_QUAL	308

Attribute: **Sounding distance - maximum**

Acronym: **SDISMX** Code: **145**

Survey reliability M_SREL 310

Attribute: Sounding distance - minimum

Acronym: **SDISMN** Code: **146**

Survey reliability M_SREL 310

Attribute: Source date

Acronym: **SORDAT** Code: **147**

Administration area (named) ADMARE 1
Airport area AIRARE 2
Anchor berth ACHBRT 3

Anchorage area	ACHARE	4
Beacon, cardinal	BCNCAR	5
Beacon, isolated danger	BCNISD	6
Beacon, lateral	BCNLAT	7
Beacon, safe water	BCNSAW	8
Beacon, special purpose/general	BCNSPP	9
Berth	BERTHS	10
Bridge	BRIDGE	11
Building, single	BUISGL	12
Built-up area	BUAARE	13
Buoy, cardinal	BOYCAR	14
Buoy, installation	BOYINB	15
Buoy, isolated danger	BOYISD	16
Buoy, lateral	BOYLAT	17
Buoy, safe water	BOYSAW	18
Buoy, special purpose/general	BOYSPP	19
Cable area	CBLARE	20
Cable, overhead	CBLOHD	21
Cable, submarine	CBLSUB	22
Canal	CANALS	23
Canal - bank	CANALS	24
Cargo transhipment area	CTSARE	25
Causeway	CAUSWY	26
Caution area	CTNARE	27
Checkpoint	CHKPNT	28
Coastguard station	CGUSTA	29
Coastline	COALNE	30
Contiguous zone	CONZNE	31
Continental shelf area	COSARE	32
Control point	CTRPNT	33
Conveyor	CONVYR	34
Crane	CRANES	35
Current	CURENT	36
Custom zone	CUSZNE	37
Dam	DAMCON	38
Daymark	DAYMAR	39
Deep water route centerline	DWRTCL	40
Deep water route - part	DWRTPT	41
Depth area	DEPARE	42
Depth contour	DEPCNT	43
Distance mark	DISMAR	44
Dock area	DOCARE	45
Dredged area	DRGARE	46
Dry dock	DRYDOC	47
	DMPGRD	
Dumping ground	DYKCON	48 49
Dyke		
Exclusive economic zone	EXEZNE	50
Fairway	FAIRWY	51
Fenceline	FNCLNE	52
Ferry route	FERYRT	53
Fishery zone	FSHZNE	54
Fishing facility	FSHFAC	55
Fishing ground	FSHGRD	56
Floating dock	FLODOC	57
Fog signal	FOGSIG	58
Fortified structure	FORSTC	59
Free port area	FRPARE	60

Cata	CATCON	61
Gate	GATCON	61
Gridiron	GRIDRN	62
Harbour area (administrative)	HRBARE	63
Harbour facility	HRBFAC	64
Hulk	HULKES	65
Ice area	ICEARE	66
Incineration area	ICNARE	67
Inshore traffic zone	ISTZNE	68
Lake	LAKARE	69
Lake - shore	LAKSHR	70
	=	
Land area	LNDARE	71
Land elevation	LNDELV	72
Land region	LNDRGN	73
Landmark	LNDMRK	74
Light	LIGHTS	75
Light-float	LITFLT	76
Light-vessel	LITVES	77
Local magnetic anomaly	LOCMAG	78
Lock basin	LOKBSN	79
Log pond	LOGPON	80
Magnetic variation	MAGVAR	81
Marine farm/culture	MARCUL	82
	MIPARE	83
Military practice area		
Mooring/warping facility	MORFAC	84
Navigation line	NAVLNE	85
Obstruction	OBSTRN	86
Offshore platform	OFSPLF	87
Offshore production area	OSPARE	88
Oil barrier	OILBAR	89
Pile	PILPNT	90
Pilot boarding place	PILBOP	91
Pipeline area	PIPARE	92
Pipeline, overhead	PIPOHD	93
Pipeline, submarine/on land	PIPSOL	94
Pontoon	PONTON	95
Precautionary area	PRCARE	96
Production/storage area	PRDARE	97
		_
Pylon/bridge support	PYLONS	98
Radar line	RADLNE	99
Radar range	RADRNG	100
Radar reflector	RADRFL	101
Radar station	RADSTA	102
Radar transponder beacon	RTPBCN	103
Radio calling-in point	RDOCAL	104
Radio station	RDOSTA	105
Railway	RAILWY	106
Rapids	RAPIDS	107
Recommended route centerline	RCRTCL	108
Recommended track	RECTRC	109
Recommended traffic lane part	RCTLPT	110
Rescue station	RSCSTA	111
Restricted area	RESARE	112
Retro-reflector	RETRFL	113
River	RIVERS	114
River - bank	RIVBNK	115
Road	ROADWY	116
Runway	RUNWAY	117

Sand waves	SNDWAV	118
	_	_
Sea area/named water area	SEAARE	119
Sea-plane landing area	SPLARE	120
Seabed area	SBDARE	121
Shoreline Construction	SLCONS	122
Signal station, traffic	SISTAT	123
Signal station, warning	SISTAW	124
Silo/tank	SILTNK	125
Slope topline	SLOTOP	126
Sloping ground	SLOGRD	127
Small craft facility	SMCFAC	128
Sounding	SOUNDG	129
Spring	SPRING	130
Square	SQUARE	131
Straight territorial sea baseline	STSLNE	132
Submarine transit lane	SUBTLN	133
Swept area	SWPARE	134
Territorial sea area	TESARE	135
Tidal stream - harmonic prediction	TS_PRH	136
Tidal stream - non-harmonic prediction	TS_PNH	137
Tidal stream - panal data	TS PAD	138
Tidal stream - time series	TS_TIS	139
Tide harmonic prediction	T_HMON	140
Tide non-harmonic prediction	T_NHMN	141
Tide time series	T_TIMS	142
	TIDEWY	143
Tideway		
Topmark	TOPMAR	144
Traffic separation line	TSELNE	145
Traffic separation scheme boundary	TSSBND	146
		147
Traffic separation scheme crossing	TSSCRS	
Traffic separation scheme lane part	TSSLPT	148
Traffic separation scheme roundabout	TSSRON	149
Traffic separation zone	TSEZNE	150
·		
Tunnel	TUNNEL	151
Two-way route part	TWRTPT	152
Underwater/awash rock	UWTROC	153
Unsurveyed area	UNSARE	154
Vegetation area	VEGATN	155
Water turbulence	WATTUR	156
Waterfall	WATFAL	157
Weed/Kelp	WEDKLP	158
·		
Wrecks	WRECKS	159
Tidal stream - flood/ebb	TS_FEB	160
Accuracy of data	M_ACCY	300
Compilation scale of data	M_CSCL	301
·		
Coverage	M_COVR	302
Horizontal datum of data	M-HDAT	303
Horizontal datum shift parameters	M_HOPA	304
Nautical publication information	M_NPUB	305
Navigational system of marks	M_NSYS	306
Production information	M_PROD	307
Quality of data	M_QUAL	308
· · · · · · · · · · · · · · · · · · ·		
Sounding datum	M_SDAT	309
Survey reliability	M_SREL	310
Units of measurement of data	M_UNIT	311
Vertical datum of data	M_VDAT	312
Aggregation	C_AGGR	400

Association	C_ASSO	401
Stacked on/stacked under	C_STAC	402
Cartographic area	\$AREAS	500
Cartographic line	\$LINES	501
Cartographic symbol	\$CSYMB	502
Compass	\$COMPS	503
Texts	\$TEXTS	504

Attribute:	Source indication

Acronym: **SORIND** Code: **148**

Administration area (named)	ADMARE	1	
Airport area	AIRARE	2	
Anchor berth	ACHBRT	3	
Anchorage area	ACHARE	4	
Beacon, cardinal	BCNCAR	5	
Beacon, isolated danger	BCNISD	6	
Beacon, lateral	BCNLAT	7	
Beacon, safe water	BCNSAW	8	
Beacon, special purpose/general	BCNSPP	9	
Berth	BERTHS	10	
Bridge	BRIDGE	11	
Building, single	BUISGL	12	
Built-up area	BUAARE	13	
Buoy, cardinal	BOYCAR	14	
Buoy, installation	BOYINB	15	
Buoy, isolated danger	BOYISD	16	
Buoy, lateral	BOYLAT	17	
Buoy, safe water	BOYSAW	18	
Buoy, special purpose/general	BOYSPP	19	
Cable area	CBLARE	20	
Cable, overhead	CBLOHD	21	
Cable, submarine	CBLSUB	22	
Canal	CANALS	23	
Canal - bank	CANBNK	24	
Cargo transhipment area	CTSARE	25	
Causeway	CAUSWY	26	
Caution area	CTNARE	27	
Checkpoint	CHKPNT	28	
Coastguard station	CGUSTA	29	
Coastline	COALNE	30	
Contiguous zone	CONZNE	31	
Continental shelf area	COSARE	32	
Control point	CTRPNT	33	
Conveyor	CONVYR	34	
Crane	CRANES	35	
Current	CURENT	36	
Custom zone	CUSZNE	37	
Dam	DAMCON	38	
Daymark	DAYMAR	39	
Deep water route centerline	DWRTCL	40	

Deep water route - part	DWRTPT	41
	DEPARE	42
Depth area		
Depth contour	DEPCNT	43
Distance mark	DISMAR	44
Dock area	DOCARE	45
Dredged area	DRGARE	46
Dry dock	DRYDOC	47
Dumping ground	DMPGRD	48
		_
Dyke	DYKCON	49
Exclusive economic zone	EXEZNE	50
Fairway	FAIRWY	51
Fenceline	FNCLNE	52
Ferry route	FERYRT	53
Fishery zone	FSHZNE	54
Fishing facility	FSHFAC	55
Fishing ground	FSHGRD	56
Floating dock	FLODOC	57
Fog signal	FOGSIG	58
Fortified structure	FORSTC	59
Free port area	FRPARE	60
Gate	GATCON	61
Gridiron	GRIDRN	62
Harbour area (administrative)	HRBARE	63
,		
Harbour facility	HRBFAC	64
Hulk	HULKES	65
Ice area	ICEARE	66
Incineration area	ICNARE	67
Inshore traffic zone	ISTZNE	68
Lake	LAKARE	69
Lake - shore	LAKSHR	70
Land area	LNDARE	71
Land elevation	LNDELV	72
Land region	LNDRGN	73
Landmark	LNDMRK	74
Light	LIGHTS	75
Light-float	LITFLT	76
Light-vessel	LITVES	77
Local magnetic anomaly	LOCMAG	78
Lock basin	LOKBSN	79
Log pond	LOGPON	80
Magnetic variation	MAGVAR	81
Marine farm/culture	MARCUL	82
Military practice area	MIPARE	83
Mooring/warping facility	MORFAC	84
Navigation line	NAVLNE	85
Obstruction	OBSTRN	86
Offshore platform	OFSPLF	87
•	OSPARE	
Offshore production area		88
Oil barrier	OILBAR	89
Pile	PILPNT	90
Pilot boarding place	PILBOP	91
Pipeline area	PIPARE	92
Pipeline, overhead	PIPOHD	93
Pipeline, submarine/on land	PIPSOL	94
Pontoon	PONTON	95
Precautionary area	PRCARE	96
Production/storage area	PRDARE	97

Pylon/bridge support Radar line Radar range Radar reflector Radar station Radar transponder beacon Radio calling-in point Radio station Railway Rapids Recommended route centerline Recommended track	PYLONS RADLNE RADRNG RADRFL RADSTA RTPBCN RDOCAL RDOSTA RAILWY RAPIDS RCRTCL RECTRC	98 99 100 101 102 103 104 105 106 107 108
Recommended traffic lane part Rescue station	RCTLPT RSCSTA	110 111
Restricted area Retro-reflector	RESARE RETRFL	112 113
River	RIVERS	114
River - bank Road	RIVBNK ROADWY	115 116
Runway	RUNWAY	117
Sand waves	SNDWAV	118
Sea area/named water area Sea-plane landing area	SEAARE SPLARE	119 120
Seabed area	SBDARE	121
Shoreline Construction	SLCONS	122
Signal station, traffic	SISTAT	123
Signal station, warning	SISTAW	124
Silo/tank Slope topline	SILTNK SLOTOP	125 126
Sloping ground	SLOGRD	120
Small craft facility	SMCFAC	128
Sounding	SOUNDG	129
Spring	SPRING	130
Square	SQUARE	131
Straight territorial sea baseline Submarine transit lane	STSLNE SUBTLN	132 133
Swept area	SWPARE	134
Territorial sea area	TESARE	135
Tidal stream - harmonic prediction	TS_PRH	136
Tidal stream - non-harmonic prediction	TS_PNH	137
Tidal stream - panal data	TS_PAD	138
Tidal stream - time series Tide harmonic prediction	TS_TIS T_HMON	139 140
Tide non-harmonic prediction	T_NHMN	141
Tide time series	T_TIMS	142
Tideway	TIDEWY	143
Topmark	TOPMAR	144
Traffic separation line	TSELNE	145
Traffic separation scheme boundary Traffic separation scheme crossing	TSSBND TSSCRS	146 147
Traffic separation scheme lane part	TSSLPT	148
Traffic separation scheme roundabout	TSSRON	149
Traffic separation zone	TSEZNE	150
Tunnel	TUNNEL	151
Two-way route part Underwater/awash rock	TWRTPT UWTROC	152 153
Unsurveyed area	UNSARE	153

Vegetation area	VEGATN	155
Water turbulence	WATTUR	156
Waterfall	WATFAL	157
Weed/Kelp	WEDKLP	158
Wrecks	WRECKS	159
Tidal stream - flood/ebb	TS_FEB	160
Accuracy of data	M_ACCY	300
Compilation scale of data	M_CSCL	301
Coverage	M_COVR	302
Horizontal datum of data	M-HDAT	303
Horizontal datum shift parameters	M_HOPA	304
Nautical publication information	M_NPUB	305
Navigational system of marks	M_NSYS	306
Production information	M_PROD	307
Quality of data	M_QUAL	308
Sounding datum	M_SDAT	309
Survey reliability	M_SREL	310
Units of measurement of data	M_UNIT	311
Vertical datum of data	M_VDAT	312
Aggregation	C_AGGR	400
Association	C_ASSO	401
Stacked on/stacked under	C_STAC	402
Cartographic area	\$AREAS	500
Cartographic line	\$LINES	501
Cartographic symbol	\$CSYMB	502
Compass	\$COMPS	503
Texts	\$TEXTS	504

Attribute:	Status			

Acronym: **STATUS** Code: **149**

Airport area Anchor berth Anchorage area Beacon, cardinal Beacon, isolated danger Beacon, lateral Beacon, safe water Beacon, special purpose/general Berth Building, single Buoy, cardinal Buoy, installation Buoy, isolated danger Buoy, safe water Buoy, safe water Buoy, special purpose/general	AIRARE ACHBRT ACHARE BCNCAR BCNISD BCNLAT BCNSAW BCNSPP BERTHS BUISGL BOYCAR BOYINB BOYISD BOYLAT BOYSAW BOYSPP	2 3 4 5 6 7 8 9 10 12 14 15 16 17 18 19
•	BOYSPP CBLARE CBLOHD CBLSUB	19 20 21 22

Canal	CANALS	23
Cargo transhipment area	CTSARE	25
Causeway	CAUSWY	26
Checkpoint	CHKPNT	28
Coastguard station	CGUSTA	29
Contiguous zone	CONZNE	31
Conveyor	CONVYR	34
Crane	CRANES	35
Daymark	DAYMAR	39
Deep water route centerline	DWRTCL	40
Deep water route - part	DWRTPT	41
Dock area	DOCARE	45
Dry dock	DRYDOC	47
Dumping ground	DMPGRD	48
Fairway	FAIRWY	51
Fenceline	FNCLNE	52
Ferry route	FERYRT	53
Fishery zone	FSHZNE	54
Fishing facility	FSHFAC	55
Fishing ground	FSHGRD	56
Floating dock	FLODOC	57
Fog signal	FOGSIG	58
Free port area	FRPARE	60
Gate	GATCON	61
Gridiron	GRIDRN	62
Harbour area (administrative)	HRBARE	63
· · · · · · · · · · · · · · · · · · ·		64
Harbour facility	HRBFAC	
Ice area	ICEARE	66
Incineration area	ICNARE	67
Inshore traffic zone	ISTZNE	68
Land area	LNDARE	71
Landmark	LNDMRK	74
Light	LIGHTS	75
Light-float	LITFLT	76
Light-vessel	LITVES	77
Lock basin	LOKBSN	79
Log pond	LOGPON	80
Marine farm/culture	MARCUL	82
	MIPARE	83
Military practice area		
Mooring/warping facility	MORFAC	84
Navigation line	NAVLNE	85
Obstruction	OBSTRN	86
Offshore platform	OFSPLF	87
Offshore production area	OSPARE	88
Oil barrier	OILBAR	89
Pilot boarding place	PILBOP	91
Pipeline area	PIPARE	92
Pipeline, overhead	PIPOHD	93
Pipeline, submarine/on land	PIPSOL	94
Pontoon	PONTON	95
	PRCARE	96
Precautionary area		90 97
Production/storage area	PRDARE	
Radar line	RADLNE	99
Radar range	RADRNG	100
Radar reflector	RADRFL	101
Radar station	RADSTA	102
Radar transponder beacon	RTPBCN	103

Radio calling-in point Radio station Railway Recommended route centerline Recommended track Recommended Traffic Lane Part Rescue station Restricted area Retro-reflector River	RDOCAL RDOSTA RAILWY RCRTCL RECTRC RCTLPT RSCSTA RESARE RETRFL RIVERS RIVBNK	104 105 106 108 109 110 111 112 113 114
Road	ROADWY	116
Runway	RUNWAY	117
Sea-plane landing area	SPLARE	120
Shoreline Construction	SLCONS	122
Signal station, traffic	SISTAT	123
Signal station, warning	SISTAW	124
Silo/tank	SILTNK	125
Small craft facility	SMCFAC	128
Sounding	SOUNDG	129
Square	SQUARE	131
Tidal stream - harmonic prediction	TS_PRH	136
Tidal stream - non-harmonic prediction	TS_PNH	137
Tidal stream - time series	TS_TIS	139
Tide harmonic prediction	T_HMON	140
Tide non-harmonic prediction	T_NHMN	141
Tide time series	T_TIMS	142
Top mark	TOPMAR	144
Traffic Separation Line	TSELNE	145
Traffic Separation Scheme - Boundary	TSSBND	146
Traffic Separation Scheme - Crossing	TSSCRS	147
Traffic Separation Scheme - Lane part	TSSLPT	148
Traffic Separation Scheme - Roundabout	TSSRON	149
Traffic Separation Zone	TSEZNE	150
Tunnel	TUNNEL	151
Two-way route part	TWRTPT	152
Underwater/awash rock	UWTROC	153
Wrecks	WRECKS	159

Attribute:	Survey authority	

Acronym: **SURATH** Code: **150**

Survey reliability M_SREL 310

Attribute: Survey date - end

Attributes/Object Classes Cross Reference

B.73

Acronym: **SUREND** Code: **151**

Quality of dataM_QUAL308Survey reliabilityM_SREL310

Attribute: Survey date - start

Acronym: SURSTA Code: 152

Quality of dataM_QUAL308Survey reliabilityM_SREL310

Attribute: Survey type

Acronym: SURTYP Code: 153

Survey reliability M_SREL 310

Attribute: Symbol scaling factor

Acronym: **\$SCALE** Code: **154**

Cartographic symbols \$CSYMB 502

Attribute: Symbolization code

Acronym: **\$SCODE** Code: **155**

Cartographic areas\$AREAS500Cartographic lines\$LINES501Cartographic symbols\$CSYMB502

Attribute:	Technique of sounding measurement	

Acronym: **TECSOU** Code: **156**

Deep water route centerline	DWRTCL	40
Deep water route - part	DWRTPT	41
Dredged area	DRGARE	46
Obstruction	OBSTRN	86
Recommended route centerline	RCRTCL	108
Recommended track	RECTRC	109
Sounding	SOUNDG	129
Swept area	SWPARE	134
Two-way route part	TWRTPT	152
Underwater/awash rock	UWTROC	153
Wrecks	WRECKS	159
Quality of data	M_QUAL	308
Survey reliability	M_SREL	310

Attribute:	Text string

Acronym: **\$TXSTR** Code: **157**

Texts \$TEXTS 504

Attribute:	Textual description		

Acronym: **TXTDSC** Code: **158**

Administration area (named)	ADMARE	1
Airport area	AIRARE	2
Anchor berth	ACHBRT	3
Anchorage area	ACHARE	4
Beacon, cardinal	BCNCAR	5
Beacon, isolated danger	BCNISD	6
Beacon, lateral	BCNLAT	7
Beacon, safe water	BCNSAW	8
Beacon, special purpose/general	BCNSPP	9
Berth	BERTHS	10
Bridge	BRIDGE	11
Building, single	BUISGL	12
Built-up area	BUAARE	13
Buoy, cardinal	BOYCAR	14
Buoy, installation	BOYINB	15
Buoy, isolated danger	BOYISD	16

Duev leteral	DOWLAT	47
Buoy, lateral	BOYLAT	17
Buoy, safe water	BOYSAW	18
Buoy, special purpose/general	BOYSPP	19
Cable area	CBLARE	20
Cable, overhead	CBLOHD	21
Cable, submarine	CBLSUB	22
Canal	CANALS	23
Canal - bank	CANBNK	24
Cargo transhipment area	CTSARE	25
Causeway	CAUSWY	26
Caution area	CTNARE	27
Checkpoint	CHKPNT	28
Coastguard station	CGUSTA	29
Coastline	COALNE	30
Contiguous zone	CONZNE	31
Continental shelf area	COSARE	32
	CTRPNT	33
Control point		
Conveyor	CONVYR	34
Crane	CRANES	35
Custom zone	CUSZNE	37
Dam	DAMCON	38
Daymark	DAYMAR	39
Deep water route centerline	DWRTCL	40
Deep water route - part	DWRTPT	41
Depth area	DEPARE	42
Depth contour	DEPCNT	43
Distance mark	DISMAR	44
Dock area	DOCARE	45
Dredged area	DRGARE	46
Dry dock	DRYDOC	47
Dumping ground	DMPGRD	48
Dyke	DYKCON	49
Exclusive economic zone	EXEZNE	50
Fairway	FAIRWY	51
Fenceline	FNCLNE	52
Ferry route	FERYRT	53
Fishery zone	FSHZNE	54
Fishing facility	FSHFAC	55
Fishing ground	FSHGRD	56
Floating dock	FLODOC	57
Fog signal	FOGSIG	58
Fortified structure	FORSTC	59
Free port area	FRPARE	60
Gate	GATCON	61
Gridiron	GRIDRN	62
Harbour area (administrative)	HRBARE	63
Harbour facility	HRBFAC	64
Hulk	HULKES	65
Ice area	ICEARE	66
Incineration area	ICNARE	67
Inshore traffic zone	ISTZNE	68
Lake	LAKARE	69
Lake - shore	LAKSHR	
Land area	LNDARE	70 71
Land elevation	LNDELV	71 72
	LNDRGN	72 73
Land region Landmark	LNDMRK	73 74
Lanuman	LINDINIUM	74

Light	LIGHTS	75
<u>-</u>	LITFLT	76
Light-float		
Light-vessel	LITVES	77
Local magnetic anomaly	LOCMAG	78
Lock basin	LOKBSN	79
Log pond	LOGPON	80
Marine farm/culture	MARCUL	82
Military practice area	MIPARE	83
Mooring/warping facility	MORFAC	84
Navigation line	NAVLNE	85
Obstruction	OBSTRN	86
Offshore platform	OFSPLF	87
Offshore production area	OSPARE	88
Oil barrier	OILBAR	89
Pile	PILPNT	90
Pilot boarding place	PILBOP	91
Pipeline area	PIPARE	92
Pipeline, overhead	PIPOHD	93
Pipeline, submarine/on land	PIPSOL	94
Pontoon	PONTON	95
Precautionary area	PRCARE	96
Production/storage area	PRDARE	97
Pylon/bridge support	PYLONS	98
Radar line	RADLNE	99
Radar range	RADRNG	100
Radar reflector	RADRFL	101
Radar station	RADSTA	102
	RTPBCN	103
Radar transponder beacon		
Radio calling-in point	RDOCAL	104
Radio station	RDOSTA	105
Railway	RAILWY	106
Rapids	RAPIDS	107
Recommended route centerline	RCRTCL	108
Recommended track	RECTRC	109
Recommended traffic lane part	RCTLPT	110
Rescue station	RSCSTA	111
Restricted area	RESARE	112
Retro-reflector	RETRFL	113
River	RIVERS	114
River - bank	RIVBNK	115
Road	ROADWY	116
Runway	RUNWAY	117
Sand waves	SNDWAV	118
Sea area/named water area	SEAARE	119
Sea-plane landing area	SPLARE	120
Seabed area	SBDARE	121
Shoreline Construction	SLCONS	122
	SISTAT	123
Signal station, traffic		
Signal station, warning	SISTAW	124
Silo/tank	SILTNK	125
Slope topline	SLOTOP	126
Sloping ground	SLOGRD	127
Small craft facility	SMCFAC	128
Sounding	SOUNDG	129
Spring	SPRING	130
Square	SQUARE	131
Straight territorial sea baseline	STSLNE	132
orangin torritorial ood baconillo	5.0LI1L	102

Submarine transit lane Swept area	SUBTLN SWPARE	133 134
Territorial sea area	TESARE	135
Tidal stream - harmonic prediction	TS_PRH	136
Tidal stream - non-harmonic prediction	TS_PNH	137
Tidal stream - panal data	TS_PAD	138
Tidal stream - time series	TS_TIS	139 140
Tide harmonic prediction Tide non-harmonic prediction	T_HMON T_NHMN	140
Tide time series	T_TIMS	142
Tideway	TIDEWY	143
Topmark	TOPMAR	144
Traffic separation line	TSELNE	145
Traffic separation scheme boundary	TSSBND	146
Traffic separation scheme crossing	TSSCRS	147
Traffic separation scheme lane part	TSSLPT	148
Traffic separation scheme roundabout	TSSRON	149
Traffic separation zone Tunnel	TSEZNE	150 151
Two-way route part	TUNNEL TWRTPT	151
Underwater/awash rock	UWTROC	153
Unsurveyed area	UNSARE	154
Vegetation area	VEGATN	155
Water turbulence	WATTUR	156
Waterfall	WATFAL	157
Weed/Kelp	WEDKLP	158
Wrecks	WRECKS	159
Tidal stream - flood/ebb	TS_FEB	160
Accuracy of data Compilation scale of data	M_ACCY M_CSCL	300 301
Horizontal datum of data	M-HDAT	303
Horizontal datum shift parameters	M_HOPA	304
Nautical publication information	M_NPUB	305
Navigational system of marks	M_NSYS	306
Production information	M_PROD	307
Quality of data	M_QUAL	308
Sounding datum	M_SDAT	309
Survey reliability	M_SREL	310
Units of measurement of data Vertical datum of data	M_UNIT M_VDAT	311 312
Aggregation	C_AGGR	400
Association	C_ASSO	401
Stacked on/stacked under	C_STAC	402
Cartographic area	\$AREAS	500
Cartographic line	\$LINES	501
Cartographic symbol	\$CSYMB	502
Compass	\$COMPS	503

Attribute:	Tidal stream - panel values

Texts \$TEXTS 504

Acronym: TS_TSP Code: 159

B.78

Tidal stream - panel data

TS_PAD

138

Attribute:	Tidal stram - time series values

Acronym: TS_TSV Code: 160

Tidal stream - time series TS_TIS 139

Attribute: Tide - accuracy of water level

Acronym: **T_ACWL** Code: **161**

Tidal stream - time series	TS TIS	139
	T HMON	
Tide harmonic prediction		140
Tide non-harmonic prediction	T NHMN	141

Attribute: Tide - high and low water values

Acronym: **T_HWLW** Code: **162**

Tide time series T_TIMS 142

Attribute: Tide - method of tidal predictions

Acronym: **T_MTOD** Code: **163**

Tidal stream - harmonic prediction	TS_PRH	136
Tidal stream - non-harmonic prediction	TS_PNH	137
Tide harmonic prediction	T_HMON	140
Tide non-harmonic prediction	T_NHMN	141

Attribute: Tide - time and height differe	nces		
Acronym: T_THDF			Code: 16
Tidal stream - non-harmonic prediction Tide non-harmonic prediction	TS_PNH T_NHMN	137 141	
Attribute: Tide - time interval of values			
Acronym: T_TINT			Code: 16
Tidal stream - time series Tide time series	TS_TIS T_TIMS	139 142	
Attribute: Tide - time series values			
Acronym: T_TSVL			Code: 16
Tide time series	T_TIMS	142	
Attribute: Tide - value of harmonic cons	stituents		
Acronym: T_VAHC			Code: 16

Attribute: Time end

TS_PRH

T_HMON

136

140

Tidal stream - harmonic prediction

Tide harmonic prediction

Acronym: **TIMEND** Code: **168**

Tidal stream - time series TS_TIS 139
Tide time series T_TIMS 142

Attribute:	Time start			

Acronym: TIMSTA Code: 169

Tidal stream - time series TS_TIS 139
Tide time series T_TIMS 142

Attribute: Tint

Acronym: **\$TINTS** Code: **170**

Cartographic areas \$AREAS 500

Attribute: Top mark/day mark Shape

Acronym: TOPSHP Code: 171

Daymark DAYMAR 39 Top mark TOPMAR 144

Attribute: Traffic flow

Acronym: TRAFIC Code: 172

Deep water route centerline	DWRTCL	40
Deep water route - part	DWRTPT	41
Fairway	FAIRWY	51
Radio calling-in point	RDOCAL	104
Recommended route centerline	RCRTCL	108
Recommended track	RECTRC	109
Two-way route part	TWRTPT	152

Attribute: Value of annual change in magnetic variation

Acronym: VALACM Code: 173

Magnetic variationMAGVAR81Compass\$COMPS503

Attribute: Value of depth contour

Acronym: VALDCO Code: 174

Depth contour DEPCNT 43

Attribute: Value of local magnetic anomaly

Acronym: VALLMA Code: 175

Local magnetic anomaly LOCMAG 78

Attribute: Value of magnetic variation

Acronym: VALMAG Code: 176

Magnetic variationMAGVAR81Compass\$COMPS503

Attribute: Value of maximum range

Acronym: VALMXR Code: 177

Fog signalFOGSIG58Radar stationRADSTA102Radar transponder beaconRTPBCN103

Attribute:	Value of nominal range		

Acronym: VALNMR Code: 178

Light LIGHTS 75

Attribute: Value of sounding

Acronym: VALSOU Code: 179

Marine farm/cultureMARCUL82ObstructionOBSTRN86Underwater/awash rockUWTROC153WrecksWRECKS159

Attribute: Vertical accuracy

Acronym: **VERACC** Code: **180**

Attribute:	Vertical clearance

Acronym: VERCLR Code: 181

Bridge	BRIDGE	11
Cable, overhead	CBLOHD	21
Conveyor	CONVYR	34
Crane	CRANES	35
Gate	GATCON	61
Pipeline, overhead	PIPOHD	93
Tunnel	TUNNEL	151

Attribute:	Vertical clearance, closed	

Acronym: VERCCL Code: 182

Attribute: Vertical clearance, open

BRIDGE Bridge 11

Acronym: VERCOP Code: 183

BRIDGE Bridge 11

Attribute: Vertical clearance, safe

Code: 184 Acronym: VERCSA

Cable, overhead CBLOHD 21

Attribute: **Vertical datum**

Acronym: **VERDAT** Code: **185**

Beacon, cardinal	BCNCAR	5
Beacon, isolated danger	BCNISD	6
Beacon, lateral	BCNLAT	7
Beacon, safe water	BCNSAW	8
Beacon, special purpose/general	BCNSPP	9
Berth	BERTHS	10
Bridge	BRIDGE	11
Building, single	BUISGL	12
Built-up area	BUAARE	13
Cable, overhead	CBLOHD	21
Cable, submarine	CBLSUB	22
Coastline	COALNE	30
Control point	CTRPNT	33
Conveyor	CONVYR	34
Crane	CRANES	35
Dam	DAMCON	38
Daymark	DAYMAR	39
Deep water route centerline	DWRTCL	40
Deep water route - part	DWRTPT	41

Depth area Depth contour Dredged area Dry dock Dyke Fairway Fenceline Floating dock Fortified structure Gate Ice area Lake Land elevation Landmark Light Marine farm/culture	DEPARE DEPCNT DRGARE DRYDOC DYKCON FAIRWY FNCLNE FLODOC FORSTC GATCON ICEARE LAKARE LNDELV LNDMRK LIGHTS MARCUII	42 43 46 47 49 51 52 57 59 61 66 69 72 74 75
Marine farm/culture Mooring/warping facility	MARCUL MORFAC	82 84
Obstruction	OBSTRN	86
Offshore platform	OFSPLF	87
Pile	PILPNT PIPOHD	90 93
Pipeline, overhead Pipeline, submarine/on land	PIPSOL	93 94
Production/storage area	PRDARE	9 4 97
Pylon/bridge support	PYLONS	98
Radar reflector	RADRFL	101
Radar station	RADSTA	102
Recommended route centerline	RCRTCL	108
Recommended track	RECTRC	109
Retro-reflector	RETRFL	113
Shoreline Construction	SLCONS	122
Silo/tank	SILTNK	125
Slope topline	SLOTOP	126
Sounding	SOUNDG	129
Swept area	SWPARE	134
Top mark	TOPMAR	144
Two-way route part	TWRTPT	152
Underwater/awash rock	UWTROC	153
Vegetation area	VEGATN	155
Wrecks Quality of data	WRECKS M QUAL	159 308
Sounding datum	M_QUAL M_SDAT	309
Vertical datum of data	M_VDAT	312
voltioai datum or data	INI_A DV I	512

Attribute:	Vertical length

Acronym: **VERLEN** Code: **186**

Beacon, cardinal	BCNCAR	5
Beacon, isolated danger	BCNISD	6
Beacon, lateral	BCNLAT	7
Beacon, safe water	BCNSAW	8

Beacon, special purpose/general Building, single Buoy, cardinal Buoy, installation Buoy, isolated danger Buoy, safe water Buoy, special purpose/general Conveyor Crane Dam Daymark Dyke Fenceline Fishing facility Floating dock Fortified structure Gridiron Hulk Ice area Landmark Light-float Light-vessel Marine farm/culture Mooring/warping facility Obstruction Offshore platform Offshore production area Pile Pipeline, submarine/on land Pontoon	BCNSPP BUISGL BOYCAR BOYINB BOYISD BOYLAT BOYSAW BOYSPP CONVYR CRANES DAMCON DAYMAR DYKCON FNCLNE FSHFAC FLODOC FORSTC GRIDRN HULKES ICEARE LNDMRK LITFLT LITVES MARCUL MORFAC OBSTRN OFSPLF OSPARE PILPNT PIPSOL PONTON	9 12 14 15 16 17 18 19 34 35 38 39 49 52 55 57 59 62 66 74 76 77 82 84 86 87 88 90 94 95
·		
_ •	PONTON	
Production/storage area	PRDARE	97
Pylon/bridge support Rapids	PYLONS RAPIDS	98 107
Sand waves	SNDWAV	118
Shoreline Construction	SLCONS	122
Silo/tank	SILTNK	125
Top mark	TOPMAR	144
Vegetation area	VEGATN	155
Waterfall	WATFAL	157
Wrecks	WRECKS	159

Attribute:	Water level effect	

Acronym: WATLEV Code: 187

Causeway	CAUSWY	26
Gridiron	GRIDRN	62
Land region	LNDRGN	73
Marine farm/culture	MARCUL	82
Mooring/warping facility	MORFAC	84

Obstruction	OBSTRN	86
Pylon/bridge support	PYLONS	98
Seabed area	SBDARE	121
Shoreline Construction	SLCONS	122
Underwater/awash rock	UWTROC	153
Wrecks	WRECKS	159

2. National Language Attributes

Attribute:	Information in national language

Acronym: NINFOM Code: 300

Administration area (named)	ADMARE	1
Airport area	AIRARE	2
Anchor berth	ACHBRT	3
Anchorage area	ACHARE	4
Beacon, cardinal	BCNCAR	5
Beacon, isolated danger	BCNISD	6
Beacon, lateral	BCNLAT	7
Beacon, safe water	BCNSAW	8
Beacon, special purpose/general	BCNSPP	9
Berth	BERTHS	10
Bridge	BRIDGE	11
Building, single	BUISGL	12
Built-up area	BUAARE	13
Buoy, cardinal	BOYCAR	14
Buoy, installation	BOYINB	15
Buoy, isolated danger	BOYISD	16
Buoy, lateral	BOYLAT	17
Buoy, safe water	BOYSAW	18
Buoy, special purpose/general	BOYSPP	19
Cable area	CBLARE	20
Cable, overhead	CBLOHD	21
Cable, submarine	CBLSUB	22
Canal	CANALS	23
Canal - bank	CANBNK	24
Cargo transhipment area	CTSARE	25
Causeway	CAUSWY	26
Caution area	CTNARE	27
Checkpoint	CHKPNT	28
Coastguard station	CGUSTA	29
Coastline	COALNE	30
Contiguous zone	CONZNE	31
Continental shelf area	COSARE	32
Control point	CTRPNT	33
Conveyor	CONVYR	34
Crane	CRANES	35
Current	CURENT	36
Custom zone	CUSZNE	37
Dam	DAMCON	38
Daymark	DAYMAR	39

Deep water route centerline	DWRTCL	40
Deep water route - part	DWRTPT	41
Depth area	DEPARE	42
•	DEPCNT	43
Depth contour		-
Distance mark	DISMAR	44
Dock area	DOCARE	45
Dredged area	DRGARE	46
Dry dock	DRYDOC	47
Dumping ground	DMPGRD	48
Dyke	DYKCON	49
Exclusive economic zone	EXEZNE	50
		51
Fairway	FAIRWY	
Fenceline	FNCLNE	52
Ferry route	FERYRT	53
Fishery zone	FSHZNE	54
Fishing facility	FSHFAC	55
Fishing ground	FSHGRD	56
Floating dock	FLODOC	57
Fog signal	FOGSIG	58
Fortified structure	FORSTC	59
	FRPARE	60
Free port area		
Gate	GATCON	61
Gridiron	GRIDRN	62
Harbour area (administrative)	HRBARE	63
Harbour facility	HRBFAC	64
Hulk	HULKES	65
Ice area	ICEARE	66
Incineration area	ICNARE	67
Inshore traffic zone	ISTZNE	68
Lake	LAKARE	69
Lake - shore	LAKSHR	70
Land area	LNDARE	71
Land elevation	LNDELV	72
Land region	LNDRGN	73
Landmark	LNDMRK	74
Light	LIGHTS	75
Light-float	LITFLT	76
Light-vessel	LITVES	77
Local magnetic anomaly	LOCMAG	78
Lock basin	LOKBSN	79
Log pond	LOGPON	80
Magnetic variation	MAGVAR	81
Marine farm/culture	MARCUL	82
Military practice area	MIPARE	83
Mooring/warping facility	MORFAC	84
Navigation line	NAVLNE	85
Obstruction	OBSTRN	86
Offshore platform	OFSPLF	87
Offshore production area	OSPARE	88
Oil barrier	OILBAR	89
Pile	PILPNT	90
Pilot boarding place	PILBOP	91
Pipeline area	PIPARE	92
Pipeline, overhead	PIPOHD	93
Pipeline, submarine/on land	PIPSOL	94
Pontoon	PONTON	95
Precautionary area	PRCARE	96
•		

Production/storage area Pylon/bridge support Radar line Radar range Radar reflector Radar station Radar transponder beacon Radio calling-in point Radio station Railway Rapids Recommended route centerline Recommended track Recommended traffic lane part Rescue station Restricted area Retro-reflector River	PRDARE PYLONS RADLNE RADRNG RADRFL RADSTA RTPBCN RDOCAL RDOSTA RAILWY RAPIDS RCRTCL RECTRC RCTLPT RSCSTA RESARE RETRFL RIVERS	97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114
River - bank	RIVBNK	115
River - bank	RIVBNK	115
Road	ROADWY	116
Runway Sand waves	RUNWAY SNDWAV	117 118
Sea area/named water area	SEAARE	119
Sea-plane landing area	SPLARE	120
Seabed area	SBDARE	121
Shoreline Construction	SLCONS	122
Signal station, traffic	SISTAT	123
Signal station, warning	SISTAW	124
Silo/tank	SILTNK	125
Slope topline	SLOTOP	126
Sloping ground	SLOGRD	127
Small craft facility	SMCFAC	128
Sounding	SOUNDG	129
Spring	SPRING	130 131
Square Straight territorial sea baseline	SQUARE STSLNE	132
Submarine transit lane	SUBTLN	133
Swept area	SWPARE	134
Territoria sea area	TESARE	135
Tidal stream - flood/ebb	TS_FEB	160
Tidal stream - harmonic prediction	TS_PRH	136
Tidal stream - non-harmonic prediction	TS_PNH	137
Tidal stream - panal data	TS_PAD	138
Tidal stream - time series	TS_TIS	139
Tide harmonic prediction	T_HMON	140
Tide non-harmonic prediction	T_NHMN	141
Tide time series	T_TIMS	142
Tideway	TIDEWY	143
Topmark Traffic separation line	TOPMAR TSELNE	144 145
Traffic separation scheme boundary	TSSBND	145
Traffic separation scheme crossing	TSSCRS	147
Traffic separation scheme lane part	TSSLPT	148
Traffic separation scheme roundabout	TSSRON	149
Traffic separation zone	TSEZNE	150
Tunnel	TUNNEL	151

Two-way route part	TWRTPT	152
Underwater/awash rock	UWTROC	153
Unsurveyed area	UNSARE	154
Vegetation area	VEGATN	155
Water turbulence	WATTUR	156
Waterfall	WATFAL	157
Weed/Kelp	WEDKLP	158
Wrecks	WRECKS	159
Tidal stream - flood/ebb	TS FEB	160
Accuracy of data	M_ACCY	300
Compilation scale of data	M_CSCL	301
Coverage	M_COVR	302
Horizontal datum of data	M-HDAT	303
Horizontal datum shift parameters	M_HOPA	304
Nautical publication information	M_NPUB	305
Navigational system of marks	M_NSYS	306
Production information	M_PROD	307
Quality of data	M_QUAL	308
	M_SDAT	309
Survey reliability	M_SREL	310
Units of measurement of data	M_UNIT	311
Vertical datum of data	M_{VDAT}	312
Aggregation	C_AGGR	400
Association	C_ASSO	401
Stacked on/stacked under	C_STAC	402
Cartographic area	\$AREAS	500
Cartographic line	\$LINES	501
- ·	\$CSYMB	502
	\$COMPS	503
Texts	\$TEXTS	504
Quality of data Sounding datum Survey reliability Units of measurement of data Vertical datum of data Aggregation Association Stacked on/stacked under Cartographic area Cartographic line Cartographic symbol Compass	M_QUAL M_SDAT M_SREL M_UNIT M_VDAT C_AGGR C_ASSO C_STAC \$AREAS \$LINES \$CSYMB \$COMPS	308 309 310 311 312 400 401 402 500 501 502 503

Attribute:	Object name in national language

Acronym: NOBJNM Code: 301

Administration area (named)	ADMARE	1
Airport area	AIRARE	2
Anchor berth	ACHBRT	3
Anchorage area	ACHARE	4
Beacon, cardinal	BCNCAR	5
Beacon, isolated danger	BCNISD	6
Beacon, lateral	BCNLAT	7
Beacon, safe water	BCNSAW	8
Beacon, special purpose/general	BCNSPP	9
Berth	BERTHS	10
Bridge	BRIDGE	11
Building, single	BUISGL	12
Built-up area	BUAARE	13
Buoy, cardinal	BOYCAR	14
Buoy, installation	BOYINB	15
Buoy, isolated danger	BOYISD	16

Buoy, lateral	BOYLAT	17
Buoy, safe water	BOYSAW	18
Buoy, special purpose/general	BOYSPP	19
Cable area	CBLARE	
	=	20
Cable, overhead	CBLOHD	21
Cable, submarine	CBLSUB	22
Canal	CANALS	23
Canal - bank	CANBNK	24
Cargo transhipment area	CTSARE	25
Causeway	CAUSWY	26
Checkpoint	CHKPNT	28
Coastguard station	CGUSTA	29
Coastline	COALNE	30
Continental shelf area	COSARE	32
Control point	CTRPNT	33
Conveyor	CONVYR	34
Crane	CRANES	35
Current	CURENT	36
Dam	DAMCON	38
Daymark	DAYMAR	39
Deep water route centerline	DWRTCL	40
Deep water route - part	DWRTPT	41
Distance mark	DISMAR	44
Dock area	DOCARE	45
Dredged area	DRGARE	46
Dry dock	DRYDOC	47
Dumping ground	DMPGRD	48
Fairway	FAIRWY	51
Fenceline	FNCLNE	52
Ferry route	FERYRT	53
Fishery zone	FSHZNE	54
Fishing facility	FSHFAC	55
Fishing ground	FSHGRD	56
Floating dock	FLODOC	57
Fog signal	FOGSIG	58
Fortified structure	FORSTC	59
	FRPARE	
Free port area		60
Gate	GATCON	61
Gridiron	GRIDRN	62
Harbour area (administrative)	HRBARE	63
Harbour facility	HRBFAC	64
Hulk	HULKES	65
Ice area	ICEARE	66
Incineration area	ICNARE	67
Lake	LAKARE	69
Lake - shore	LAKSHR	70
Land area	LNDARE	71
Land elevation	LNDELV	72
		73
Land region	LNDRGN	
Landmark	LNDMRK	74 75
Light	LIGHTS	75
Light-float	LITFLT	76
Light-vessel	LITVES	77
Local magnetic anomaly	LOCMAG	78
Lock basin	LOKBSN	79
Log pond	LOGPON	80
Marine farm/culture	MARCUL	82
	- 	

Military practice area Mooring/warping facility Obstruction Offshore platform Offshore production area Oil barrier Pile Pilot boarding place Pipeline area Pipeline, overhead Pipeline, submarine/on land Pontoon Production/storage area Pylon/bridge support Radar line Radar range Radar station Radar transponder beacon Radio calling-in point Radio station Railway Rapids Recommended route centerline Recommended track Rescue station Restricted area River	MIPARE MORFAC OBSTRN OFSPLF OSPARE OILBAR PILPNT PILBOP PIPARE PIPOHD PIPSOL PONTON PRDARE PYLONS RADLNE RADRNG RADSTA RTPBCN RDOCAL RDOSTA RAILWY RAPIDS RCRTCL RECTRC RSCSTA RESARE RIVERS	83 84 86 87 88 89 90 91 92 93 94 95 97 98 99 100 102 103 104 105 106 107 108 109 111 112
River - bank	RIVBNK	115
River - bank Road	RIVBNK ROADWY	115 116
Runway	RUNWAY	117
Sea area/named water area	SEAARE	119
Sea-plane landing area	SPLARE	120
Seabed area	SBDARE	121
Shoreline Construction	SLCONS	122
Signal station, traffic	SISTAT	123
Signal station, warning	SISTAW	124
Silo/tank Slope topline	SILTNK SLOTOP	125 126
Sloping ground	SLOGRD	127
Small craft facility	SMCFAC	128
Sounding	SOUNDG	129
Spring	SPRING	130
Square	SQUARE	131
Submarine transit lane	SUBTLN	133
Tidal stream - harmonic prediction	TS_PRH	136
Tidal stream - non-harmonic prediction	TS_PNH	137
Tidal stream - panal data	TS_PAD	138
Tidal stream - time series	TS_TIS	139
Tide harmonic prediction	T_HMON	140
Tide non-harmonic prediction	T_NHMN	141
Tide time series	T_TIMS	142
Tideway Tunnel	TIDEWY	143
Underwater/awash rock	TUNNEL UWTROC	151 153
Vegetation area	VEGATN	155
Water turbulence	WATTUR	156
VV ALC: LATE VALUE TO COMMENT OF THE PROPERTY	WALLOIV	130

Attributes/Object	Classes	0,000	Deference
Attributes/Object	Classes	C1055	Reference

B.93

Waterfall	WATFAL	157
Weed/Kelp	WEDKLP	158
Wrecks	WRECKS	159
Tidal stream - flood/ebb	TS_FEB	160
Aggregation	C_AGGR	400
Association	C_ASSO	401

Attribute: Pilot district in national language

Acronym: NPLDST Code: 302

Pilot boarding place PILBOP 91

Attribute: Text string in national language

Acronym: **\$NTXST** Code: **303**

Texts \$TEXTS 504

Attribute: Textual description in national language

Acronym: NTXTDS Code: 304

Administration area (named) Airport area Anchor berth Anchorage area Beacon, cardinal Beacon, isolated danger Beacon, lateral Beacon, safe water Beacon, special purpose/general Berth Bridge Building, single Built-up area	ADMARE AIRARE ACHBRT ACHARE BCNCAR BCNISD BCNLAT BCNSAW BCNSPP BERTHS BRIDGE BUISGL BUAARE	1 2 3 4 5 6 7 8 9 10 11 12 13
J. J	BUAARE BOYCAR BOYINB BOYISD	13 14 15 16
Buoy, lateral	BOYLAT	17

Buoy, safe water	BOYSAW	18
Buoy, special purpose/general	BOYSPP	19
Cable area	CBLARE	20
	=	21
Cable, overhead	CBLOHD	
Cable, submarine	CBLSUB	22
Canal	CANALS	23
Canal - bank	CANBNK	24
Cargo transhipment area	CTSARE	25
Causeway	CAUSWY	26
Caution area	CTNARE	27
	CHKPNT	28
Checkpoint		
Coastguard station	CGUSTA	29
Coastline	COALNE	30
Contiguous zone	CONZNE	31
Continental shelf area	COSARE	32
Control point	CTRPNT	33
Conveyor	CONVYR	34
Crane	CRANES	35
Custom zone	CUSZNE	37
Dam	DAMCON	38
Daymark	DAYMAR	39
Deep water route centerline	DWRTCL	40
Deep water route - part	DWRTPT	41
Depth area	DEPARE	42
Depth contour	DEPCNT	43
Distance mark	DISMAR	44
Dock area	DOCARE	45
Dredged area	DRGARE	46
Dry dock	DRYDOC	47
Dumping ground	DMPGRD	48
Dyke	DYKCON	49
Exclusive economic zone	EXEZNE	50
Fairway	FAIRWY	51
Fenceline	FNCLNE	52
Ferry route	FERYRT	53
Fishery zone	FSHZNE	54
Fishing facility	FSHFAC	55
	FSHGRD	56
Fishing ground		
Floating dock	FLODOC	57
Fog signal	FOGSIG	58
Fortified structure	FORSTC	59
Free port area	FRPARE	60
Gate	GATCON	61
Gridiron	GRIDRN	62
Harbour area (administrative)	HRBARE	63
Harbour facility	HRBFAC	64
Hulk	HULKES	65
-		
Ice area	ICEARE	66
Incineration area	ICNARE	67
Inshore traffic zone	ISTZNE	68
Lake	LAKARE	69
Lake - shore	LAKSHR	70
Land area	LNDARE	71
Land elevation	LNDELV	72
Land region	LNDRGN	73
Landmark	LNDMRK	74
Light	LIGHTS	75
Light	LIGITIO	, 5

Light-float	LITFLT	76
Light-vessel	LITVES	77
Local magnetic anomaly	LOCMAG	78
Lock basin	LOKBSN	79
Log pond	LOGPON	80
Marine farm/culture	MARCUL	82
Military practice area	MIPARE	83
Mooring/warping facility	MORFAC	84
Navigation line	NAVLNE	85
Obstruction	OBSTRN	86
Offshore platform	OFSPLF	87
Offshore production area	OSPARE	88
Oil barrier	OILBAR	89
Pile	PILPNT	90
Pilot boarding place	PILBOP	91
Pipeline area	PIPARE	92
Pipeline, overhead	PIPOHD	93
Pipeline, submarine/on land	PIPSOL	94
Pontoon	PONTON	95
Precautionary area	PRCARE	96
Production/storage area	PRDARE	97
Pylon/bridge support	PYLONS	98
Radar line	RADLNE RADRNG	99 100
Radar range Radar reflector	RADRING	100
Radar station	RADSTA	101
Radar transponder beacon	RTPBCN	103
Radio calling-in point	RDOCAL	104
Radio station	RDOSTA	105
Railway	RAILWY	106
Rapids	RAPIDS	107
Recommended route centerline	RCRTCL	108
Recommended track	RECTRC	109
Recommended traffic lane part	RCTLPT	110
Rescue station	RSCSTA	111
Restricted area	RESARE	112
Retro-reflector	RETRFL	113
River	RIVERS	114
River - bank	RIVBNK	115
Road	ROADWY	116
Runway	RUNWAY	117
Sand waves	SNDWAV	118
Sea area/named water area	SEAARE	119 120
Sea-plane landing area Seabed area	SPLARE	120
Shoreline Construction	SBDARE SLCONS	121
Signal station, traffic	SISTAT	123
Signal station, warning	SISTAW	124
Silo/tank	SILTNK	125
Slope topline	SLOTOP	126
Sloping ground	SLOGRD	127
Small craft facility	SMCFAC	128
Sounding	SOUNDG	129
Spring	SPRING	130
Square	SQUARE	131
Straight territorial sea baseline	STSLNE	132
Submarine transit lane	SUBTLN	133

Swept area	SWPARE	134
Territorial sea area	TESARE	135
Tidal stream - harmonic prediction	TS_PRH	136
Tidal stream - non-harmonic prediction	TS_PNH	137
Tidal stream - panal data Tidal stream - time series	TS_PAD	138 139
Tide harmonic prediction	TS_TIS T_HMON	140
Tide non-harmonic prediction	T_NHMN	141
Tide time series	T TIMS	142
Tideway	TIDEWY	143
Topmark	TOPMAR	144
Traffic separation line	TSELNE	145
Traffic separation scheme boundary	TSSBND	146
Traffic separation scheme crossing	TSSCRS	147
Traffic separation scheme lane part	TSSLPT	148
Traffic separation scheme roundabout	TSSRON	149 150
Traffic separation zone Tunnel	TSEZNE TUNNEL	150
Two-way route part	TWRTPT	152
Underwater/awash rock	UWTROC	153
Unsurveyed area	UNSARE	154
Vegetation area	VEGATN	155
Water turbulence	WATTUR	156
Waterfall	WATFAL	157
Weed/Kelp	WEDKLP	158
Wrecks	WRECKS	159
Tidal stream - flood/ebb	TS_FEB	160
Accuracy of data Compilation scale of data	M_ACCY M_CSCL	300 301
Horizontal datum of data	M-HDAT	303
Horizontal datum shift parameters	M_HOPA	304
Nautical publication information	M_NPUB	305
Navigational system of marks	M_NSYS	306
Production information	M_PROD	307
Quality of data	M_QUAL	308
Sounding datum	M_SDAT	309
Survey reliability	M_SREL	310
Units of measurement of data	M_UNIT	311
Vertical datum of data Aggregation	M_VDAT C_AGGR	312 400
Association	C_ASSO	401
Stacked on/stacked under	C_STAC	402
Cartographic area	\$AREAS	500
Cartographic line	\$LINES	501
Cartographic symbol	\$CSYMB	502
Compass	\$COMPS	503
Texts	\$TEXTS	504

3. Spatial and Meta Object Attributes

Attribute:	Horizontal datum

Acronym: **HORDAT** Code: **400**

Horizontal datum of data M_HDAT 303 Horizontal datum shift parameters M_HOPA 304

Attribute: Positional accuracy

Acronym: POSACC Code: 401

Accuracy of data M_ACCY 300
Quality of data M_QUAL 308

Attribute: Quality of position

Acronym: QUAPOS Code: 402

Survey reliability M_SREL 310

Page intentionally left blank