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Important notice

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

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	BCNCAR	5
Beacon, isolated danger	BCNISD	6
Beacon, lateral	BCNLAT	7
Beacon, safe water	BCNSAW	8
Beacon, special purpose/general	BCNSPP	9

Attribute:	**Shape of building**

Acronym: **BUISHP**   Code: **3**

Building, single	BUISGL	12
Silo/tank	SILTNK	125

Attribute:	**Shape of buoy**

Acronym: **BOYSHP**   Code: **4**

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
Mooring/warping facility	MORFAC	84

Attribute: **Buried depth**

Acronym: **BURDEP**   Code: **5**

Cable, submarine	CBLSUB	22
Pipeline, submarine/on land	PIPSOL	94
Tunnel	TUNNEL	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**

Acronym: **CATACH**   Code: **8**

| 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 area	CBLARE	20
Cable, overhead	CBLOHD	21
Cable, submarine	CBLSUB	22

Attribute:	**Category of canal**

Acronym: **CATCAN** Code: **12**

| Canal | CANALS | 23 |

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

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**

    Distance mark   DISMAR   44

Attribute:	**Category of dock**

Acronym: **CATDOC**   Code: **22**

    Dock area   DOCARE   45

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

Attribute: **Category of fortified structure**

Acronym: **CATFOR** Code: **28**

Fortified structure FORSTC 59

Attribute: **Category of gate**

Acronym: **CATGAT** Code: **29**

Gate GATCON 61

Attribute: **Category of harbour facility**

Acronym: **CATHAF** Code: **30**

Harbour facility HRBFAC 64

Attribute: **Category of hulk**

Acronym: **CATHLK** Code: **31**

Hulk HULKES 65

Attribute: **Category of ice**

Acronym: **CATICE** Code: **32**

Ice area ICEARE 66

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

Attribute:	**Category of marine farm/culture**

Acronym: **CATMFA**   Code: **38**

Marine farm/culture	MARCUL	82

Attribute:	**Category of military practice area**

Acronym: **CATMPA**   Code: **39**

Military practice area	MIPARE	83

Attribute:	**Category of mooring/warping facility**

Acronym: **CATMOR**   Code: **40**

Mooring/warping facility	MORFAC	84

Attribute:	**Category of navigation line**

Acronym: **CATNAV**   Code: **41**

Navigation line	NAVLNE	85

Attribute:	**Category of obstruction**

Acronym: **CATOBS**   Code: **42**

Obstruction	OBSTRN	86

Attribute:	**Category of offshore platform**

Acronym: **CATOFP**   Code: **43**

    Offshore platform   OFSPLF   87

Attribute:	**Category of oil barrier**

Acronym: **CATOLB**   Code: **44**

    Oil barrier   OILBAR   89

Attribute:	**Category of pile**

Acronym: **CATPLE**   Code: **45**

    Pile   PILPNT   90

Attribute:	**Category of pilot boarding place**

Acronym: **CATPIL**   Code: **46**

    Pilot boarding place   PILBOP   91

Attribute:	**Category of pipeline/pipe**

Acronym: **CATPIP**   Code: **47**

    Pipeline area   PIPARE   92
    Pipeline, overhead   PIPOHD   93
    Pipeline, submarine/on land   PIPSOL   94

Attribute:	**Category of production area**

Acronym: **CATPRA**   Code: **48**

Offshore production area	OSPARE	88
Production/storage area	PRDARE	97

Attribute:	**Category of pylon**

Acronym: **CATPYL**   Code: **49**

Pylon/bridge support	PYLONS	98

Attribute:	**Category of quality of data**

Acronym: **CATQUA**   Code: **50**

Quality of data	M_QUAL	308

Attribute:	**Category of radar station**

Acronym: **CATRAS**   Code: **51**

Radar station	RADSTA	102

Attribute:	**Category of radar transponder beacon**

Acronym: **CATRTB**   Code: **52**

Radar transponder beacon	RTPBCN	103

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 centerline	DWRTCL	40
Recommended route centerline	RCRTCL	108
Recommended track	RECTRC	109
Two-way route part	TWRTPT	152

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

Attribute:	**Category of road**

Acronym: **CATROD**   Code: **57**

~~River - bank~~   ~~RIVBNK~~   ~~115~~
Road   ROADWY   116

Attribute:	**Category of runway**

Acronym: **CATRUN**   Code: **58**

Runway   RUNWAY   117

Attribute:	**Category of sea area**

Acronym: **CATSEA**   Code: **59**

Sea area/named water area   SEAARE   119

Attribute:	**Category of shoreline construction**

Acronym: **CATSLC**   Code: **60**

Shoreline Construction   SLCONS   122

Attribute:	**Category of signal station, traffic**

Acronym: **CATSIT**   Code: **61**

Signal station, traffic   SISTAT   123

Attribute:	**Category of signal station, warning**

Acronym: **CATSIW**   Code: **62**

Signal station, warning	SISTAW	124

Attribute:	**Category of silo/tank**

Acronym: **CATSIL**   Code: **63**

Silo/tank	SILTNK	125

Attribute:	**Category of slope**

Acronym: **CATSLO**   Code: **64**

Slope topline	SLOTOP	126
Sloping ground	SLOGRD	127

Attribute:	**Category of small craft facility**

Acronym: **CATSCF**   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

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

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   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
Cable, submarine   CBLSUB   22
Canal   CANALS   23
Canal - bank   CANBNK   24
Causeway   CAUSWY   26
Conveyor   CONVYR   34
Crane   CRANES   35
Dam   DAMCON   38
Dock area   DOCARE   45
Dry dock   DRYDOC   47
Dyke   DYKCON   49
Fenceline   FNCLNE   52
Floating dock   FLODOC   57
Fortified structure   FORSTC   59
Gate   GATCON   61
Harbour facility   HRBFAC   64
Hulk   HULKES   65
Land area   LNDARE   71
Landmark   LNDMRK   74
Mooring/warping facility   MORFAC   84
Obstruction   OBSTRN   86
Offshore platform   OFSPLF   87
Offshore production area   OSPARE   88
Oil barrier   OILBAR   89
Pile   PILPNT   90
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
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	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
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, overhead	CBLOHD	21
Coastline	COALNE	30
Conveyor	CONVYR	34
Crane	CRANES	35
Dam	DAMCON	38
Dyke	DYKCON	49
Fenceline	FNCLNE	52
Floating dock	FLODOC	57
Fortified structure	FORSTC	59
Hulk	HULKES	65
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
Pipeline, overhead	PIPOHD	93
Pontoon	PONTON	95
Production/storage area	PRDARE	97
Pylon/bridge support	PYLONS	98
Shoreline Construction	SLCONS	122
Silo/tank	SILTNK	125
Slope topline	SLOTOP	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**

Current	CURENT	36
Tidal stream - flood/ebb	TS_FEB	160

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	ISTZNE	68
Light	LIGHTS	75
Light-float	LITFLT	76
Light-vessel	LITVES	77
Lock basin	LOKBSN	79
Magnetic variation	MAGVAR	81
Marine farm/culture	MARCUL	82
Military practice area	MIPARE	83
Mooring/warping facility	MORFAC	84
Navigation line	NAVLNE	85
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 range	RADRNG	100
Radar station	RADSTA	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: **Date, start**

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

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	ISTZNE	68
Light	LIGHTS	75
Light-float	LITFLT	76
Light-vessel	LITVES	77
Lock basin	LOKBSN	79
Magnetic variation	MAGVAR	81
Marine farm/culture	MARCUL	82
Military practice area	MIPARE	83
Mooring/warping facility	MORFAC	84
Navigation line	NAVLNE	85
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 range	RADRNG	100
Radar station	RADSTA	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**

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/culture   MARCUL   82
    Obstruction   OBSTRN   86
    Sounding   SOUNDG   129
    Underwater/awash rock   UWTROC   153
    Wrecks   WRECKS   159

Attribute:	**Function**

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

    Building, single   BUISGL   12
    Landmark   LNDMRK   74

Attribute:	**Height**

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

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
Built-up area	BUAARE	13
Conveyor	CONVYR	34
Crane	CRANES	35
Dam	DAMCON	38
Daymark	DAYMAR	39
Dyke	DYKCON	49
Fenceline	FNCLNE	52
Fortified structure	FORSTC	59
Ice area	ICEARE	66
Landmark	LNDMRK	74
Light	LIGHTS	75
Mooring/warping facility	MORFAC	84
Obstruction	OBSTRN	86
Offshore platform	OFSPLF	87
Offshore production area	OSPARE	88
Pile	PILPNT	90
Production/storage area	PRDARE	97
Pylon/bridge support	PYLONS	98
Radar reflector	RADRFL	101
Radar station	RADSTA	102
Railway	RAILWY	106
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

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
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
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
~~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
Cartographic area	$AREAS	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**

Conveyor	CONVYR	34
Crane	CRANES	35
Floating dock	FLODOC	57

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**

Administration area (named)	ADMARE	1
Contiguous zone	CONZNE	31
Continental shelf area	COSARE	32
Custom zone	CUSZNE	37
Exclusive Economic Zone	EXEZNE	50
Fishery zone	FSHZNE	54
Straight territorial sea baseline	STSLNE	132

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

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
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

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:	**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	BCNSPP	9
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
Coastline	COALNE	30
Control point	CTRPNT	33
Conveyor	CONVYR	34
Crane	CRANES	35
Floating dock	FLODOC	57
Fortified structure	FORSTC	59
Hulk	HULKES	65
Landmark	LNDMRK	74
Light-float	LITFLT	76
Light-vessel	LITVES	77
Mooring/warping facility	MORFAC	84
Offshore platform	OFSPLF	87
Production/storage area	PRDARE	97
Pylon/bridge support	PYLONS	98
Silo/tank	SILTNK	125
Small craft facility	SMCFAC	128
Topmark	TOPMAR	144
Tunnel	TUNNEL	151
Wrecks	WRECKS	159
Nautical publication information	M_NPUB	305
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:	**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	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
Survey reliability	M_SREL	310

Attribute:	**Radar transponder beacon wavelength**

Acronym: **RADWAL**   Code: **126**

Radar transponder beacon	RTPBCN	103

Attribute:	**Radius**

Acronym: **RADIUS**   Code: **127**

Anchor berth	ACHBRT	3
Crane	CRANES	35

Attribute:	**Recording date**

Acronym: **RECDAT**   Code: **128**

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
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
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
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
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
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	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	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
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
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 variation	MAGVAR	81
Compass	$COMPS	503

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

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
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
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
~~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
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)	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
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
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
~~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
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

Attribute:	**Scale value 2**

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

Attribute:	**Signal generation**

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

Fog signal   FOGSIG   58

Attribute:	**Signal group**

Acronym: **SIGGRP**   Code: **141**

Fog signal   FOGSIG   58
Light   LIGHTS   75
Radar transponder beacon   RTPBCN   103

Attribute:	**Signal period**

Acronym: **SIGPER**   Code: **142**

Fog signal   FOGSIG   58
Light   LIGHTS   75

Attribute:	**Signal sequence**

Acronym: **SIGSEQ**   Code: **143**

Fog signal   FOGSIG   58
Light   LIGHTS   75
Radar transponder beacon   RTPBCN   103

Attribute:	**Sounding accuracy**

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

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	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
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
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
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
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
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	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	PRDARE	97

Pylon/bridge support	PYLONS	98
Radar line	RADLNE	99
Radar range	RADRNG	100
Radar reflector	RADRFL	101
Radar station	RADSTA	102
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Recommended route centerline	RCRTCL	108
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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 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: **Status**

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

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
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
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
Harbour facility	HRBFAC	64
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
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
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
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
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
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**

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

Quality of data	M_QUAL	308
Survey reliability	M_SREL	310

Attribute:	**Survey date - start**

Acronym: **SURSTA**   Code: **152**

Quality of data	M_QUAL	308
Survey reliability	M_SREL	310

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	$AREAS	500
Cartographic lines	$LINES	501
Cartographic symbols	$CSYMB	502

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

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
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	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
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
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
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

Attribute:	**Tidal stream - panel values**

Texts	$TEXTS	504

Acronym: **TS_TSP**   Code: **159**

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~~
Tide harmonic prediction   T_HMON   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 differences**

Acronym: **T_THDF**   Code: **164**

| Tidal stream - non-harmonic prediction | TS_PNH | 137 |
| Tide non-harmonic prediction | T_NHMN | 141 |

Attribute:	**Tide - time interval of values**

Acronym: **T_TINT**   Code: **165**

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

Attribute:	**Tide - time series values**

Acronym: **T_TSVL**   Code: **166**

| Tide time series | T_TIMS | 142 |

Attribute:	**Tide - value of harmonic constituents**

Acronym: **T_VAHC**   Code: **167**

| Tidal stream - harmonic prediction | TS_PRH | 136 |
| Tide harmonic prediction | T_HMON | 140 |

Attribute:	**Time end**

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 variation	MAGVAR	81
Compass	$COMPS	503

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 variation	MAGVAR	81
Compass	$COMPS	503

Attribute:	**Value of maximum range**

Acronym: **VALMXR** Code: **177**

Fog signal	FOGSIG	58
Radar station	RADSTA	102
Radar transponder beacon	RTPBCN	103

Attribute:	**Value of nominal range**

Acronym: **VALNMR**   Code: **178**

Light	LIGHTS	75

Attribute:	**Value of sounding**

Acronym: **VALSOU**   Code: **179**

Marine farm/culture	MARCUL	82
Obstruction	OBSTRN	86
Underwater/awash rock	UWTROC	153
Wrecks	WRECKS	159

Attribute:	**Vertical accuracy**

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

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
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, overhead	CBLOHD	21
Coastline	COALNE	30
Control point	CTRPNT	33
Conveyor	CONVYR	34
Crane	CRANES	35
Dam	DAMCON	38
Daymark	DAYMAR	39
Dyke	DYKCON	49
Fenceline	FNCLNE	52
Fishing facility	FSHFAC	55

Floating dock	FLODOC	57
Fortified structure	FORSTC	59
Gate	GATCON	61
Gridiron	GRIDRN	62
Hulk	HULKES	65
Ice area	ICEARE	66
Lake	LAKARE	69
Land elevation	LNDELV	72
Landmark	LNDMRK	74
Light	LIGHTS	75
Light-float	LITFLT	76
Light-vessel	LITVES	77
Marine farm/culture	MARCUL	82
Mooring/warping facility	MORFAC	84
Obstruction	OBSTRN	86
Offshore platform	OFSPLF	87
Offshore production area	OSPARE	88
Pile	PILPNT	90
Pipeline, overhead	PIPOHD	93
Pipeline, submarine/on land	PIPSOL	94
Pontoon	PONTON	95
Production/storage area	PRDARE	97
Pylon/bridge support	PYLONS	98
Radar reflector	RADRFL	101
Radar station	RADSTA	102
Railway	RAILWY	106
Rapids	RAPIDS	107
Retro-reflector	RETRFL	113
Sand waves	SNDWAV	118
Shoreline Construction	SLCONS	122
Silo/tank	SILTNK	125
Slope topline	SLOTOP	126
Top mark	TOPMAR	144
Tunnel	TUNNEL	151
Vegetation area	VEGATN	155
Waterfall	WATFAL	157
Wrecks	WRECKS	159
Accuracy of data	M_ACCY	300

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**

Acronym: **VERCSA**   Code: **184**

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	DEPARE	42
Depth contour	DEPCNT	43
Dredged area	DRGARE	46
Dry dock	DRYDOC	47
Dyke	DYKCON	49
Fairway	FAIRWY	51
Fenceline	FNCLNE	52
Floating dock	FLODOC	57
Fortified structure	FORSTC	59
Gate	GATCON	61
Ice area	ICEARE	66
Lake	LAKARE	69
Land elevation	LNDELV	72
Landmark	LNDMRK	74
Light	LIGHTS	75
Marine farm/culture	MARCUL	82
Mooring/warping facility	MORFAC	84
Obstruction	OBSTRN	86
Offshore platform	OFSPLF	87
Pile	PILPNT	90
Pipeline, overhead	PIPOHD	93
Pipeline, submarine/on land	PIPSOL	94
Production/storage area	PRDARE	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	WRECKS	159
Quality of data	M_QUAL	308
Sounding datum	M_SDAT	309
Vertical datum of data	M_VDAT	312

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	BCNSPP	9
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
Dyke	DYKCON	49
Fenceline	FNCLNE	52
Fishing facility	FSHFAC	55
Floating dock	FLODOC	57
Fortified structure	FORSTC	59
Gridiron	GRIDRN	62
Hulk	HULKES	65
Ice area	ICEARE	66
Landmark	LNDMRK	74
Light-float	LITFLT	76
Light-vessel	LITVES	77
Marine farm/culture	MARCUL	82
Mooring/warping facility	MORFAC	84
Obstruction	OBSTRN	86
Offshore platform	OFSPLF	87
Offshore production area	OSPARE	88
Pile	PILPNT	90
Pipeline, submarine/on land	PIPSOL	94
Pontoon	PONTON	95
Production/storage area	PRDARE	97
Pylon/bridge support	PYLONS	98
Rapids	RAPIDS	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
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
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
~~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
Cartographic area	$AREAS	500
Cartographic line	$LINES	501
Cartographic symbol	$CSYMB	502
Compass	$COMPS	503
Texts	$TEXTS	504

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
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 - 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
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)	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
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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
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
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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
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
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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
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Vegetation area	VEGATN	155
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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
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

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

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