IENC Feature Catalogue

Edition 2.0

2006-10-24

Inland ENC
Harmonization Group

Introduction

The IENC Feature Catalogue is based on features, attributes and enumerations of following Data Dictionaries

Data Dictionary Name	Token	Owner	Place of Publishment
IHO S-100 Data Dictionary	S100	IHO	http://www.ukhoftp.gov.uk
Inland ENC Data Dictionary	IENC	IEHG	http://www.ukhoftp.gov.uk

Used Abbreviations

Feature Types

G	Geo
M	Meta
C	Cartographic
O	Collection
I	Information

Feature Primitives

P	Point
L	Line
A	Area
N	None

Use of Feature Attribute Bindings

O	optional
M	mandatory
C	conditional mandatory

Type of Attribute Use

F	Feature
N	National
S	Spatial
C	Cartographic

Type of Attribute Value

E	Enumeration
L	List
F	Float
I	Integer
T	Text
S	Structured text

Feature	Coverage

Acronym: **M_COVR**   Code: 302

Type: M

Primitve: A

Data Dictionary (DD) Reference:

DD Name: S100   Date accepted: 2000-11-01

Definition: A geographical area that describes the coverage and extent of spatial objects.

Attribute Bindings:

acronym	usage	constraints
CATCOV	M	value list = "1,2"
SORDAT	C	format = "ccyymmdd"
SORIND	C	format = "cc,cc,ccccc,c..."

Feature	Quality of data

Acronym: **M_QUAL**   Code: 308

Type: M

Primitve: A

Data Dictionary (DD) Reference:

DD Name: S100   Date accepted: 2000-11-01

Definition: An area within which a uniform assessment of the quality of the data exists.

Attribute Bindings:

acronym	usage	constraints
CATZOC	O	value list = "1,2,3,4,5,6"
POSACC	O	unit = "m" decimal digits = "2"
SOUACC	O	unit = "m" decimal digits = "2"
TECSOU	C	value list = "1,2,3,4,5,6,7,8,9,10,11,12,13,14"
SORDAT	C	format = "ccyymmdd"
SORIND	C	format = "cc,cc,ccccc,c..."

Feature	Survey reliability

Acronym: **M_SREL**

Code: 310

Type: M

Primitve: A

Data Dictionary (DD) Reference:

DD Name: S100   Date accepted: 2000-11-01

Definition: An area within which a uniform assessment of the reliability of source survey
                     information exists.

Attribute Bindings:

acronym	usage	constraints
QUAPOS	C	value list = "4,10"
QUASOU	M	value list = "1,2,8,10,11"
SURATH	M	
SUREND	M	format = "ccyymmdd"
SURSTA	M	format = "ccyymmdd"
SURTYP	C	value list = "2"
SORDAT	C	format = "ccyymmdd"
SORIND	C	format = "cc,cc,ccccc,c..."

Feature	Administration Area (Named)

Acronym: **ADMARE**   Code: 1

Type: G

Primitve: A

Data Dictionary (DD) Reference:

DD Name: S100   Date accepted: 2000-11-01

Definition: A defined (and possibly named) administration area.

Attribute Bindings:

acronym	usage	constraints
JRSDTN	M	value list = "1,2,3"
NATION	M	format = "cc"
OBJNAM	M	
INFORM	O	
SCAMIN	M	min = "1"
TXTDSC	O	
SORDAT	C	format = "ccyymmdd"
SORIND	C	format = "cc,cc,ccccc,c..."

Feature	Airport/airfield

Acronym: **AIRARE**   Code: 2

Type: G

Primitve: P,A

Data Dictionary (DD) Reference:

DD Name: S100   Date accepted: 2000-11-01

Definition: An area containing at least one runway, used for landing, take-off, and movement of aircraft.

Attribute Bindings:

acronym	usage	constraints
CATAIR	O	value list = "1,2,6"
OBJNAM	M	
SCAMIN	M	min = "1"
SORDAT	C	format = "ccyymmdd"
SORIND	C	format = "cc,cc,ccccc,c..."

Feature	Beacon, lateral

Acronym: **BCNLAT**   Code: 7

Type: G

Primitve: P

<u>Data Dictionary (DD) Reference:</u>

DD Name: S100   Date accepted: 2000-11-01

Definition: A beacon, is a prominent specially constructed object forming a conspicuous mark as a fixed aid to navigation or for use in hydrographic survey (IHO Dictionary, S-32, 5th Edition, 420). A lateral beacon, is used to indicate the port or starboard hand side of the route to be followed. They are generally used for well defined channels and are used in conjunction with a conventional direction of buoyage. (UKHO NP 735, 5th Edition)

<u>Attribute Bindings:</u>

acronym	usage	constraints
BCNSHP	M	value list = "1,5"
CATLAM	M	value list = "1,2,3,4"
COLOUR	M	value list = "1,2,3,4,5,6,7,8,9,10,11,12,13"
COLPAT	C	value list = "1,2,3,4,5,6"
INFORM	O	
SCAMIN	M	min = "1"
SORDAT	C	format = "ccyymmdd"
SORIND	C	format = "cc,cc,ccccc,c..."

Feature	Buoy, cardinal

Acronym: **BOYCAR**   Code: 14

Type: G

Primitve: P

<u>Data Dictionary (DD) Reference:</u>

DD Name: S100   Date accepted: 2000-11-01

Definition: A buoy, is a floating object moored to the bottom in a particular place, as an aid to
                    navigation or for other specific purposes. (IHO Dictionary S-32 5th Edition, 565).A
                    cardinal buoy, is used in conjunction with the compass to indicate where the mariner
                    may find the best navigable water. It is placed in one of the four quadrants (North,
                    East, South and West), bounded by inter-cardinal bearings from the point marked.
                    (UKHO NP 735, 5th Edition)

<u>Attribute Bindings:</u>

acronym	usage	constraints
BOYSHP	M	value list = "1,2,3,4,5,6,8"
CATCAM	M	value list = "1,2,3,4"
COLOUR	M	value list = "1,2,3,4,5,6,7,8,9,10,11,12,13"
COLPAT	C	value list = "1,2,3,4,5,6"
CONRAD	O	value list = "3"
NOBJNM	C	
OBJNAM	C	
SCAMIN	M	min = "1"
SORDAT	C	format = "ccyymmdd"
SORIND	C	format = "cc,cc,ccccc,c..."

Feature	Buoy, lateral

Acronym: **BOYLAT**   Code: 17

Type: G

Primitve: P

Data Dictionary (DD) Reference:

DD Name: S100   Date accepted: 2000-11-01

Definition: A buoy, is a floating object moored to the bottom in a particular place, as an aid to
                  navigation or for other specific purposes. (IHO Dictionary, S-32, 5th Edition, 565).
                  A lateral buoy, is used to indicate the port or starboard hand side of the route to
                  be followed. They are generally used for well defined channels and are used in
                  conjunction with a conventional direction of buoyage. (UKHO NP 735, 5th Edition)

Attribute Bindings:

acronym	usage	constraints
BOYSHP	M	value list = "1,2,3,4,5,6,8"
CATLAM	M	value list = "1,2,3,4"
COLOUR	M	value list = "1,2,3,4,5,6,7,8,9,10,11,12,13"
COLPAT	C	value list = "1,2,3,4,5,6"
CONRAD	O	value list = "3"
NOBJNM	C	
OBJNAM	C	
SCAMIN	M	min = "1"
SORDAT	C	format = "ccyymmdd"
SORIND	C	format = "cc,cc,ccccc,c..."

Feature	Buoy, safe water

Acronym: **BOYSAW**   Code: 18

Type: G

Primitve: P

Data Dictionary (DD) Reference:

DD Name: S100   Date accepted: 2000-11-01

Definition: A buoy, is a floating object moored to the bottom in a particular place, as an aid to navigation or for other specific purposes. (IHO Dictionary, S-32, 5th Edition, 565). A safe water buoy, is used to indicate that there is navigable water around the mark. (UKHO NP735, 5th Edition)

Attribute Bindings:

acronym	usage	constraints
BOYSHP	M	value list = "1,2,3,4,5,6,8"
COLOUR	M	value list = "1,2,3,4,5,6,7,8,9,10,11,12,13"
COLPAT	M	value list = "1,2,3,4,5,6"
CONRAD	C	value list = "3"
NOBJNM	O	
OBJNAM	O	
SCAMIN	M	min = "1"
SORDAT	C	format = "ccyymmdd"
SORIND	C	format = "cc,cc,ccccc,c..."

Feature	Buoy, special purpose/general

Acronym: **BOYSPP**   Code: 19

Type: G

Primitve: P

Data Dictionary (DD) Reference:

DD Name: S100   Date accepted: 2000-11-01

Definition: A buoy, is a floating object moored to the bottom in a particular place, as an aid to navigation or for other specific purposes. (IHO Dictionary, S-32, 5th Edition, 565). A special purpose buoy, is primarily used to indicate an area or feature, the nature of which is apparent from reference to a chart, Sailing Directions or Notices to Mariners. (UKHO NP 735, 5th Edition). Buoy in general: A buoy, whose appearance or purpose is not adequately known.

Attribute Bindings:

acronym	usage	constraints
BOYSHP	M	value list = "1,2,3,4,5,6,8"
CATSPM	M	value list = "6,10,12,37,39,41,45,50,54,55"
COLOUR	M	value list = "1,2,3,4,5,6,7,8,9,10,11,12,13"
COLPAT	C	value list = "1,2,3,4,5,6"
CONRAD	O	value list = "3"
NOBJNM	O	
OBJNAM	O	
INFORM	O	
SCAMIN	M	min = "1"
SORDAT	C	format = "ccyymmdd"
SORIND	C	format = "cc,cc,ccccc,c..."

Feature	Built-up area

Acronym: **BUAARE**   Code: 13

Type: G

Primitve: P,A

Data Dictionary (DD) Reference:

DD Name: S100   Date accepted: 2000-11-01

Definition: An area containing a concentration of buildings and the supporting road or rail
                  infrastructure.

Attribute Bindings:

acronym	usage	constraints
CATBUA	O	value list = "1,2,3,4,5"
OBJNAM	C	
SCAMIN	M	min = "1"
SORDAT	C	format = "ccyymmdd"
SORIND	C	format = "cc,cc,ccccc,c..."

Feature	Building, single

Acronym: **BUISGL**   Code: 12

Type: G

Primitve: P,A

<u>Data Dictionary (DD) Reference:</u>

DD Name: S100   Date accepted: 2000-11-01

Definition: A relatively permanent structure, roofed and usually walled. It is designed for some
                  particular use which it may be important to indicate. (Digital Geographic Information
                  Working Group, Oct.87)

<u>Attribute Bindings:</u>

acronym	usage	constraints
FUNCTN	C	value list = "2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,3
OBJNAM	O	
SCAMIN	M	min = "1"
SORDAT	C	format = "ccyymmdd"
SORIND	C	format = "cc,cc,ccccc,c..."

Feature	Canal

Acronym: **CANALS**   Code: 23

Type: G

Primitve: L,A

Data Dictionary (DD) Reference:

DD Name: S100   Date accepted: 2000-11-01

Definition: An artificial waterway with no flow, or a controlled flow, used for navigation, or for
                draining or irrigating land (ditch). (United States Geological Survey, Jan.89)

Attribute Bindings:

acronym	usage	constraints
OBJNAM	O	
SCAMIN	M	min = "1"
SORDAT	C	format = "ccyymmdd"
SORIND	C	format = "cc,cc,ccccc,c..."

Feature	Cable area

Acronym: **CBLARE**   Code: 20

Type: G

Primitve: A

Data Dictionary (DD) Reference:

DD Name: S100   Date accepted: 2000-11-01

Definition: An area which contains one or more submarine cables.

Attribute Bindings:

acronym	usage	constraints
CATCBL	M	value list = "1,3,4,5,6"
OBJNAM	O	
RESTRN	O	value list = "1"
SCAMIN	M	min = "1"
SORDAT	C	format = "ccyymmdd"
SORIND	C	format = "cc,cc,ccccc,c..."

Feature	Cable, submarine

Acronym: **CBLSUB**   Code: 22

Type: G

Primitve: L

Data Dictionary (DD) Reference:

DD Name: S100   Date accepted: 2000-11-01

Definition: An assembly of wires or fibres, or a wire rope or chain which has been laid underwater
                 or buried beneath the seabed (Hydrographic Service, Royal Australian Navy)

Attribute Bindings:

acronym	usage	constraints
CATCBL	M	value list = "1,3,4,5,6"
OBJNAM	O	
SCAMIN	M	min = "1"
SORDAT	C	format = "ccyymmdd"
SORIND	C	format = "cc,cc,ccccc,c..."

Feature	Coastline

Acronym: **COALNE**   Code: 30

Type: G

Primitve: L

Data Dictionary (DD) Reference:

DD Name: S100   Date accepted: 2000-11-01

Definition: The line where shore and water meet. Although the terminology of coasts and shores is rather confused, shoreline and coastline are generally used as synonyms. (IHO Dictionary, S-32, 5th Edition, 858,4695)

Attribute Bindings:

acronym	usage	constraints
SCAMIN	M	min = "1"
SORDAT	C	format = "ccyymmdd"
SORIND	C	format = "cc,cc,ccccc,c..."

Feature	Caution area

Acronym: **CTNARE**   Code: 27

Type: G

Primitve: P,A

Data Dictionary (DD) Reference:

DD Name: S100   Date accepted: 2000-11-01

Definition: Generally, an area where the mariner has to be made aware of circumstances
                  influencing the safety of navigation.

Attribute Bindings:

acronym	usage	constraints
NOBJNM	O	
OBJNAM	O	
INFORM	M	
NINFOM	O	
SCAMIN	M	min = "1"
SORDAT	C	format = "ccyymmdd"
SORIND	C	format = "cc,cc,ccccc,c..."

Feature	Conveyor

Acronym: **CONVYR**   Code: 34

Type: G

Primitve: L

Data Dictionary (DD) Reference:

DD Name: S100   Date accepted: 2000-11-01

Definition: A mechanical apparatus for moving bulk material or people from place to place (as by
                    a moving belt or chain of receptacles).

Attribute Bindings:

acronym	usage	constraints
CATCON	M	value list = "2"
OBJNAM	O	
PRODCT	O	value list = "1,2,3,4,5,6,7,8,14,15,17,21,22"
VERCLR	O	unit = "m" decimal digits = "2"
SCAMIN	M	min = "1"
TXTDSC	O	
SORDAT	C	format = "ccyymmdd"
SORIND	C	format = "cc,cc,ccccc,c..."

Feature	Crane

Acronym: **CRANES**   Code: 35

Type: G

Primitve: P,A

Data Dictionary (DD) Reference:

DD Name: S100   Date accepted: 2000-11-01

Definition: A machine for lifting, shifting and lowering objects or materials by means of a swinging
                  boom or with a lifting apparatus supported on an overhead track. (Digital Geographic
                  Information Working Group, Oct.87)

Attribute Bindings:

acronym	usage	constraints
CATCRN	M	value list = "2"
OBJNAM	O	
VERCLR	O	unit = "m" decimal digits = "2"
SCAMIN	M	min = "1"
SORDAT	C	format = "ccyymmdd"
SORIND	C	format = "cc,cc,ccccc,c..."

Feature	Dam

Acronym: **DAMCON**   Code: 38

Type: G

Primitve: L,A

Data Dictionary (DD) Reference:

DD Name: S100   Date accepted: 2000-11-01

Definition: A barrier to check or confine anything in motion; particularly one constructed to
                  hold back water and raise its level to form a reservoir, or to prevent flooding. (IHO
                  Dictionary, S-32, 5th Edition, 1196)

Attribute Bindings:

acronym	usage	constraints
CATDAM	M	value list = "1,2"
NATCON	O	value list = "1,2,3,4,5,6,7,8,9"
OBJNAM	M	
SCAMIN	M	min = "1"
SORDAT	C	format = "ccyymmdd"
SORIND	C	format = "cc,cc,ccccc,c..."

Feature	Daymark

Acronym: **DAYMAR**   Code: 39

Type: G

Primitve: P

Data Dictionary (DD) Reference:

DD Name: S100   Date accepted: 2000-11-01

Definition: The identifying characteristics of an aid to navigation which serve to facilitate its
                  recognition against a daylight viewing background. On those structures that do not by
                  themselves present an adequate viewing area to be seen at the required distance,
                  the aid is made more visible by affixing a daymark to the structure. A daymark so
                  affixed has a distinctive colour and shape depending on the purpose of the aid. (IHO
                  Dictionary, S-32, 5th Edition, 1248)

Attribute Bindings:

acronym	usage	constraints
COLOUR	M	value list = "1,2,3,4,5,6,7,8,9,10,11,12,13"
COLPAT	C	value list = "1,2,3,4,5,6"
TOPSHP	M	value list = "1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33"
INFORM	O	
SCAMIN	M	min = "1"
SORDAT	C	format = "ccyymmdd"
SORIND	C	format = "cc,cc,ccccc,c..."

Feature	Depth area

Acronym: **DEPARE**   Code: 42

Type: G

Primitve: A

Data Dictionary (DD) Reference:

DD Name: S100   Date accepted: 2000-11-01

Definition: A depth area is a water area whose depth is within a defined range of values.

Attribute Bindings:

acronym	usage	constraints
DRVAL1	M	unit = "m" decimal digits = "2"
DRVAL2	M	unit = "m" decimal digits = "2"
INFORM	C	
QUASOU	C	value list = "1,2,8,10,11"
SORDAT	C	format = "ccyymmdd"
SORIND	C	format = "cc,cc,ccccc,c..."

Feature	Depth contour

Acronym: **DEPCNT**
Code: 43

Type: G

Primitve: L

Data Dictionary (DD) Reference:

DD Name: S100
Date accepted: 2000-11-01

Definition:
A line connecting points of equal water depth which is sometimes significantly displaced outside of soundings, symbols and other chart detail for clarity as well as generalization. Depth contours, therefore, often represent an approximate location of the line of equal depth as related to the surveyed line delineated on the source. Also referred to as depth curve. (IHO Dictionary, S-32, 5th Edition, 1314, 1315)

Attribute Bindings:

acronym	usage	constraints
VALDCO	M	unit = "m" decimal digits = "1"
SCAMIN	M	min = "1"
SORDAT	C	format = "ccyymmdd"
SORIND	C	format = "cc,cc,ccccc,c..."

Feature	Dredged area

Acronym: **DRGARE**   Code: 46

Type: G

Primitve: A

Data Dictionary (DD) Reference:

DD Name: S100   Date accepted: 2000-11-01

Definition: An area of the bottom of a body of water which has been deepened by dredging. (IHO
                     Dictionary, S-32, 5th Edition, 1462)

Attribute Bindings:

acronym   usage   constraints

DRVAL1   O   unit = "m"   decimal digits = "2"

SORDAT   C   format = "ccyymmdd"

SORIND   C   format = "cc,cc,ccccc,c..."

Feature	Dry dock

Acronym: **DRYDOC**   Code: 47

Type: G

Primitve: A

Data Dictionary (DD) Reference:

DD Name: S100   Date accepted: 2000-11-01

Definition: An artificial basin fitted with a gate or caisson, into which vessels can be floated and
                  the water pumped out to expose the vessel's bottom. Also called graving dock. (IHO
                  Dictionary, S-32, 5th Edition, 1426)

Attribute Bindings:

acronym	usage	constraints
DRVAL1	O	unit = "m" decimal digits = "2"
HORCLR	O	unit = "m" decimal digits = "2"
HORLEN	O	unit = "m" decimal digits = "2"
HORWID	O	unit = "m" decimal digits = "2"
OBJNAM	O	
SCAMIN	M	min = "1"
TXTDSC	O	
SORDAT	C	format = "ccyymmdd"
SORIND	C	format = "cc,cc,ccccc,c..."

Feature	Dyke

Acronym: **DYKCON**   Code: 49

Type: G

Primitve: L,A

Data Dictionary (DD) Reference:

DD Name: S100   Date accepted: 2000-11-01

Definition: A dyke (or dike) is an artificial embankment to contain or hold back water.(IHO
                   Dictionary, S-32, 5th Edition, 1361)

Attribute Bindings:

acronym	usage	constraints
HEIGHT	O	unit = "m" decimal digits = "2"
INFORM	O	
SCAMIN	M	min = "1"
SORDAT	C	format = "ccyymmdd"
SORIND	C	format = "cc,cc,ccccc,c..."

Feature	Fairway

Acronym: **FAIRWY**   Code: 51

Type: G

Primitve: A

Data Dictionary (DD) Reference:

DD Name: S100   Date accepted: 2000-11-01

Definition: That part of a river, harbour and so on, where the main navigable channel for vessels
                      of larger size lies. It is also the usual course followed by vessels entering or leaving
                      harbours, called 'ship channel'. (International Maritime Dictionary, 2nd Ed.)

Attribute Bindings:

acronym   usage   constraints

SCAMIN   M   min = "1"

SORDAT   C   format = "ccyymmdd"

SORIND   C   format = "cc,cc,ccccc,c..."

Feature	Ferry route

Acronym: **FERYRT**   Code: 53

Type: G

Primitve: L

Data Dictionary (DD) Reference:

DD Name: S100   Date accepted: 2000-11-01

Definition: A route in a body of water where a ferry crosses from one shoreline to another. (Digital
                  Geographic Information Working Group, Oct.87)

Attribute Bindings:

acronym	usage	constraints
CATFRY	M	value list = "1,2"
OBJNAM	O	
STATUS	C	value list = "2,3,4,8,9,12,14,16,17"
INFORM	O	
SCAMIN	M	min = "1"
TXTDSC	O	
SORDAT	C	format = "ccyymmdd"
SORIND	C	format = "cc,cc,ccccc,c..."

Feature	Floating dock

Acronym: **FLODOC**   Code: 57

Type: G

Primitve: A

Data Dictionary (DD) Reference:

DD Name: S100   Date accepted: 2000-11-01

Definition: A form of dry dock consisting of a floating structure of one or more sections which can be partly submerged by controlled flooding to receive a vessel, then raised by pumping out the water so that the vessel's bottom can be exposed. (IHO Dictionary, S-32, 5th Edition, 1427)

Attribute Bindings:

acronym	usage	constraints
HORCLR	O	unit = "m" decimal digits = "2"
HORLEN	O	unit = "m" decimal digits = "2"
HORWID	O	unit = "m" decimal digits = "2"
OBJNAM	O	
SCAMIN	M	min = "1"
TXTDSC	O	
SORDAT	C	format = "ccyymmdd"
SORIND	C	format = "cc,cc,ccccc,c..."

Feature	Fence/wall

Acronym: **FNCLNE**   Code: 52

Type: G

Primitve: L

Data Dictionary (DD) Reference:

DD Name: S100   Date accepted: 2000-11-01

Definition: A natural or man-made barrier used as an enclosure or boundary or for protection.
                  (adapted from Digital Geographic Information Working Group, Oct.1987)

Attribute Bindings:

acronym	usage	constraints
CATFNC	M	value list = "1,4"
OBJNAM	C	
SCAMIN	M	min = "1"
TXTDSC	O	
SORDAT	C	format = "ccyymmdd"
SORIND	C	format = "cc,cc,ccccc,c..."

Feature	Fog signal

Acronym: **FOGSIG**   Code: 58

Type: G

Primitve: P

Data Dictionary (DD) Reference:

DD Name: S100   Date accepted: 2000-11-01

Definition: A warning signal transmitted by a vessel, or aid to navigation, during periods of low
                  visibility. Also, the device producing such a signal. (IHO Dictionary, S-32, 5th Edition,
                  1890)

Attribute Bindings:

acronym	usage	constraints
CATFOG	M	value list = "1,2,3,4,5,6,7,8,9,10"
SIGFRQ	O	unit = "Hz" min = "0"
SIGGEN	O	value list = "1,2"
SIGGRP	C	format = "(c)(c)..."
SIGPER	C	unit = "s" decimal digits = "2"
SIGSEQ	C	format = "l.ll+(e.ee)"
VALMXR	O	unit = "nm" decimal digits = "1"
SCAMIN	M	min = "1"
SORDAT	C	format = "ccyymmdd"
SORIND	C	format = "cc,cc,ccccc,c..."

Feature	Free port area

Acronym: **FRPARE**   Code: 60

Type: G

Primitve: A

Data Dictionary (DD) Reference:

DD Name: S100   Date accepted: 2000-11-01

Definition: A port where certain import and export duties are waived (unless goods pass into the
                  country) to facilitate reshipment to other countries. (IHO Dictionary, S-32, 5th Edition,
                  1927)

Attribute Bindings:

acronym	usage	constraints
OBJNAM	O	
SCAMIN	M	min = "1"
SORDAT	C	format = "ccyymmdd"
SORIND	C	format = "cc,cc,ccccc,c..."

Feature	Gate

Acronym: **GATCON**   Code: 61

Type: G

Primitve: L,A

Data Dictionary (DD) Reference:

DD Name: S100   Date accepted: 2000-11-01

Definition: A structure that may be swung, drawn, or lowered to block an entrance or
                   passageway. (United States Geological Survey, Jan.89)

Attribute Bindings:

acronym	usage	constraints
CATGAT	M	value list = "4"
HORCLR	M	unit = "m" decimal digits = "2"
VERCLR	O	unit = "m" decimal digits = "2"
SCAMIN	M	min = "1"
SORDAT	C	format = "ccyymmdd"
SORIND	C	format = "cc,cc,ccccc,c..."

Feature	Harbour facility

Acronym: **HRBFAC**   Code: 64

Type: G

Primitve: P,A

Data Dictionary (DD) Reference:

DD Name: S100   Date accepted: 2000-11-01

Definition: A harbour installation with a service or commercial operation of public interest.

Attribute Bindings:

acronym	usage	constraints
CATHAF	M	value list = "5"
OBJNAM	M	
SCAMIN	M	min = "1"
SORDAT	C	format = "ccyymmdd"
SORIND	C	format = "cc,cc,ccccc,c..."

Feature	Hulk

Acronym: **HULKES**   Code: 65

Type: G

Primitve: A

Data Dictionary (DD) Reference:

DD Name: S100   Date accepted: 2000-11-01

Definition: A permanently moored ship.

Attribute Bindings:

acronym	usage	constraints
CATHLK	M	value list = "1,2,3,4,5"
OBJNAM	O	
SCAMIN	M	min = "1"
TXTDSC	O	
SORDAT	C	format = "ccyymmdd"
SORIND	C	format = "cc,cc,ccccc,c..."

Feature	Lake

Acronym: **LAKARE**   Code: 69

Type: G

Primitve: A

Data Dictionary (DD) Reference:

DD Name: S100   Date accepted: 2000-11-01

Definition: A large body of water entirely surrounded by land. (IHO Dictionary, S-32, 5th Edition, 2629)

Attribute Bindings:

acronym	usage	constraints
SCAMIN	M	min = "1"
SORDAT	C	format = "ccyymmdd"
SORIND	C	format = "cc,cc,ccccc,c..."

Feature	Light

Acronym: **LIGHTS**   Code: 75

Type: G

Primitve: P

Data Dictionary (DD) Reference:

DD Name: S100   Date accepted: 2000-11-01

Definition: A luminous or lighted aid to navigation. (adapted from IHO Dictionary, S-32, 5th
                   Edition, 2766)

Attribute Bindings:

acronym	usage	constraints
COLOUR	M	value list = "1,2,3,4,5,6,7,8,9,10,11,12,13"
EXCLIT	C	value list = "1,2,3,4"
LITCHR	M	value list = "1,2,3,4,7,9"
MLTYLT	C	min = "2"
ORIENT	M	unit = "deg" decimal digits = "2"
SIGGRP	C	format = "(c)(c)..."
SIGPER	C	unit = "s" decimal digits = "2"
SIGSEQ	C	format = "l.ll+(e.ee)"
STATUS	C	value list = "2,3,4,8,9,12,14,16,17"
INFORM	C	
SCAMIN	M	min = "1"
SORDAT	C	format = "ccyymmdd"
SORIND	C	format = "cc,cc,ccccc,c..."

Feature	Land area

Acronym: **LNDARE**   Code: 71

Type: G

Primitve: P,L,A

Data Dictionary (DD) Reference:

DD Name: S100   Date accepted: 2000-11-01

Definition: The solid portion of the Earth's surface, as opposed to sea, water. (IHO Dictionary, S-32, 5th Edition, 2635)

Attribute Bindings:

acronym	usage	constraints
OBJNAM	O	
SORDAT	C	format = "ccyymmdd"
SORIND	C	format = "cc,cc,ccccc,c..."

Feature	Landmark

Acronym: **LNDMRK**   Code: 74

Type: G

Primitve: P,A

Data Dictionary (DD) Reference:

DD Name: S100   Date accepted: 2000-11-01

Definition: A prominent object at a fixed location which can be used in determining a location or a
                  direction. (adapted from IHO Dictionary, S-32, 5th Edition, 2643).

Attribute Bindings:

acronym	usage	constraints
CATLMK	M	value list = "1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22"
CONVIS	M	value list = "1,2"
FUNCTN	C	value list = "2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,3
OBJNAM	O	
SCAMIN	M	min = "1"
SORDAT	C	format = "ccyymmdd"
SORIND	C	format = "cc,cc,ccccc,c..."

Feature	Land region

Acronym: **LNDRGN** Code: 73

Type: G

Primitve: P,A

Data Dictionary (DD) Reference:

DD Name: S100 Date accepted: 2000-11-01

Definition: An area of natural scenery on land. It is defined by its geographical characteristics and may be known by its proper name.

Attribute Bindings:

acronym	usage	constraints
OBJNAM	O	
SORDAT	C	format = "ccyymmdd"
SORIND	C	format = "cc,cc,ccccc,c..."

Feature	Mooring/Warping facility

Acronym: **MORFAC**   Code: 84

Type: G

Primitve: P,L,A

Data Dictionary (DD) Reference:

DD Name: S100   Date accepted: 2000-11-01

Definition: The equipment or structure used to secure a vessel (adapted from IHO Dictionary,
                  S-32, 5th Edition, 3322)

Attribute Bindings:

acronym	usage	constraints
CATMOR	M	value list = "1,5,7"
NATCON	O	value list = "1,2,3,4,5,6,7,8,9"
OBJNAM	M	
WATLEV	O	value list = "1,2,3,4,5"
SCAMIN	M	min = "1"
SORDAT	C	format = "ccyymmdd"
SORIND	C	format = "cc,cc,ccccc,c..."

Feature	Navigation line

Acronym: **NAVLNE**   Code: 85

Type: G

Primitve: L

Data Dictionary (DD) Reference:

DD Name: S100   Date accepted: 2000-11-01

Definition: A navigation line is a straight line extending towards an area of navigational interest
                  and generally generated by two navigational aids or one navigational aid and a
                  bearing. (Service Hydrographique et Océanographique de la Marine, France)

Attribute Bindings:

acronym	usage	constraints
CATNAV	M	value list = "1,2,3"
ORIENT	M	unit = "deg" decimal digits = "2"
SCAMIN	M	min = "1"
SORDAT	C	format = "ccyymmdd"
SORIND	C	format = "cc,cc,ccccc,c..."

Feature	Obstruction

Acronym: **OBSTRN**   Code: 86

Type: G

Primitve: P,L,A

Data Dictionary (DD) Reference:

DD Name: S100   Date accepted: 2000-11-01

Definition: In marine navigation, anything that hinders or prevents movement, particularly
                   anything that endangers or prevents passage of a vessel. The term is usually used to
                   refer to an isolated danger to navigation... (IHO Dictionary, S-32, 5th Edition, 3503)

Attribute Bindings:

acronym	usage	constraints
CATOBS	O	value list = "1,2,3,4,5,6,7,8,9,10"
VALSOU	C	unit = "m" decimal digits = "2"
WATLEV	C	value list = "1,2,3,4,5"
INFORM	C	
SCAMIN	M	min = "1"
SORDAT	C	format = "ccyymmdd"
SORIND	C	format = "cc,cc,ccccc,c..."

Feature	Oil barrier

Acronym: **OILBAR**   Code: 89

Type: G

Primitve: L

Data Dictionary (DD) Reference:

DD Name: S100   Date accepted: 2000-11-01

Definition: A construction to dam oil flow on water.

Attribute Bindings:

acronym	usage	constraints
CATOLB	O	value list = "1,2"
SCAMIN	M	min = "1"
SORDAT	C	format = "ccyymmdd"
SORIND	C	format = "cc,cc,ccccc,c..."

Feature	Pile

Acronym: **PILPNT**   Code: 90

Type: G

Primitve: P

Data Dictionary (DD) Reference:

DD Name: S100   Date accepted: 2000-11-01

Definition: A long heavy timber or section of steel, wood, concrete, etc.. forced into the earth
                  which may serve as a support, as for a pier, or a free standing pole within a marine
                  environment. (Adapted from IHO Dictionary, S-32, 5th Edition, 3840)

Attribute Bindings:

acronym	usage	constraints
OBJNAM	O	
SCAMIN	M	min = "1"
SORDAT	C	format = "ccyymmdd"
SORIND	C	format = "cc,cc,ccccc,c..."

Feature	Pipeline area

Acronym: **PIPARE**   Code: 92

Type: G

Primitve: A

Data Dictionary (DD) Reference:

DD Name: S100   Date accepted: 2000-11-01

Definition: An area containing one or more pipelines.

Attribute Bindings:

acronym	usage	constraints
CATPIP	M	value list = "2,3,4,6"
OBJNAM	O	
PRODCT	M	value list = "1,2,3,4,5,6,7,8,14,15,17,21,22"
RESTRN	M	value list = "1"
SCAMIN	M	min = "1"
SORDAT	C	format = "ccyymmdd"
SORIND	C	format = "cc,cc,ccccc,c..."

Feature	Pipeline, submarine/on land

Acronym: **PIPSOL**

Code: 94

Type: G

Primitve: L

Data Dictionary (DD) Reference:

DD Name: S100   Date accepted: 2000-11-01

Definition: A pipeline is a string of interconnected pipes used for the transport of matter,
                  nowadays mainly oil or gas. (IHO Dictionary, S-32, 5th Edition, 3857). A submarine or
                  land pipeline is a pipeline lying on or buried under the seabed or the land.

Attribute Bindings:

acronym	usage	constraints
CATPIP	M	value list = "2,3,4,6"
OBJNAM	O	
PRODCT	M	value list = "1,2,3,4,5,6,7,8,14,15,17,21,22"
SCAMIN	M	min = "1"
SORDAT	C	format = "ccyymmdd"
SORIND	C	format = "cc,cc,ccccc,c..."

Feature	Pontoon

Acronym: **PONTON**   Code: 95

Type: G

Primitve: A

Data Dictionary (DD) Reference:

DD Name: S100   Date accepted: 2000-11-01

Definition: A floating structure, usually rectangular in shape which serves as landing, pier head or
                  bridge support. (IHO Dictionary, S-32, 5th Edition, 3947)

Attribute Bindings:

acronym	usage	constraints
OBJNAM	O	
SCAMIN	M	min = "1"
TXTDSC	O	
SORDAT	C	format = "ccyymmdd"
SORIND	C	format = "cc,cc,ccccc,c..."

Feature	Pylon/bridge support

Acronym: **PYLONS**   Code: 98

Type: G

Primitve: P,A

Data Dictionary (DD) Reference:

DD Name: S100   Date accepted: 2000-11-01

Definition: A vertical construction consisting, for example, of a steel framework or pre-stressed
                    concrete to carry cables, a bridge, etc.

Attribute Bindings:

acronym	usage	constraints
CATPYL	M	value list = "1,2,3,4,5"
WATLEV	M	value list = "1,2,3,4,5"
SCAMIN	M	min = "1"
SORDAT	C	format = "ccyymmdd"
SORIND	C	format = "cc,cc,ccccc,c..."

Feature	Radar station

Acronym: **RADSTA**   Code: 102

Type: G

Primitve: P

Data Dictionary (DD) Reference:

DD Name: S100   Date accepted: 2000-11-01

Definition: A station with a transmitter emitting pulses of ultra-high frequency radio waves which
                  are reflected by solid objects and are detected upon their return to the sending station.
                  (International Maritime Dictionary, 2nd Ed.)

Attribute Bindings:

acronym	usage	constraints
CATRAS	O	value list = "1"
OBJNAM	O	
SCAMIN	M	min = "1"
SORDAT	C	format = "ccyymmdd"
SORIND	C	format = "cc,cc,ccccc,c..."

Feature	Railway

Acronym: **RAILWY**   Code: 106

Type: G

Primitve: L

<u>Data Dictionary (DD) Reference:</u>

DD Name: S100   Date accepted: 2000-11-01

Definition: A rail or set of parallel rails on which a train or tram runs. (Digital Geographic
                     Information Working Group, Oct.87)

<u>Attribute Bindings:</u>

acronym	usage	constraints
OBJNAM	O	
SCAMIN	M	min = "1"
SORDAT	C	format = "ccyymmdd"
SORIND	C	format = "cc,cc,ccccc,c..."

Feature	Recommended track

Acronym: **RECTRC**   Code: 109

Type: G

Primitve: L

Data Dictionary (DD) Reference:

DD Name: S100   Date accepted: 2000-11-01

Definition: A track recommended to all or only certain vessels. (IHO Dictionary, S-32, 5th Edition,
                  5576)

Attribute Bindings:

acronym	usage	constraints
CATTRK	M	value list = "1,2"
ORIENT	M	unit = "deg" decimal digits = "2"
TRAFIC	M	value list = "1,2,3,4"
SCAMIN	M	min = "1"
SORDAT	C	format = "ccyymmdd"
SORIND	C	format = "cc,cc,ccccc,c..."

Feature	Restricted area

Acronym: **RESARE**   Code: 112

Type: G

Primitve: A

Data Dictionary (DD) Reference:

DD Name: S100   Date accepted: 2000-11-01

Definition: A specified area designated by an appropriate authority within which navigation
                  is restricted in accordance with certain specified conditions. (adapted from IHO
                  Dictionary, S-32, 5th Edition, 4366)

Attribute Bindings:

acronym	usage	constraints
OBJNAM	O	
RESTRN	M	value list = "1"
SCAMIN	M	min = "1"
SORDAT	C	format = "ccyymmdd"
SORIND	C	format = "cc,cc,ccccc,c..."

Feature	River

Acronym: **RIVERS**

Code: 114

Type: G

Primitve: L,A

Data Dictionary (DD) Reference:

DD Name: S100

Date accepted: 2000-11-01

Definition: A relatively large natural stream of water. (IHO Dictionary, S-32, 5th Edition, 4405)

Attribute Bindings:

acronym	usage	constraints
OBJNAM	C	
SCAMIN	M	min = "1"
SORDAT	C	format = "ccyymmdd"
SORIND	C	format = "cc,cc,ccccc,c..."

Feature	Road

Acronym: **ROADWY**   Code: 116

Type: G

Primitve: L,A

Data Dictionary (DD) Reference:

DD Name: S100   Date accepted: 2000-11-01

Definition: A road is an open way for the passage of vehicles. (United States Geological Survey, Jan.89)

Attribute Bindings:

acronym	usage	constraints
CATROD	M	value list = "1,2,3,4"
SCAMIN	M	min = "1"
SORDAT	C	format = "ccyymmdd"
SORIND	C	format = "cc,cc,ccccc,c..."

Feature	Radar transponder beacon

Acronym: **RTPBCN**   Code: 103

Type: G

Primitve: P

Data Dictionary (DD) Reference:

DD Name: S100   Date accepted: 2000-11-01

Definition: A transponder beacon, transmitting a coded signal on radar frequency, permitting an
                  interrogating craft to determine the bearing and range of the transponder. Also called
                  racon. (IHO Dictionary, S-32, 5th Edition, 4137)

Attribute Bindings:

acronym	usage	constraints
CATRTB	M	value list = "1,2,3"
RADWAL	O	format = "xx.x-b,xx.x-b,...] xx.x = value in meter, b = band"
SIGGRP	O	format = "(c)(c)..."
SCAMIN	M	min = "1"
SORDAT	C	format = "ccyymmdd"
SORIND	C	format = "cc,cc,ccccc,c..."

Feature	Sea area/named water area

Acronym: **SEAARE**   Code: 119

Type: G

Primitve: P,A

Data Dictionary (DD) Reference:

DD Name: S100   Date accepted: 2000-11-01

Definition: A geographically defined part of the sea or other navigable waters. It may be specified
                   within its limits by its proper name.

Attribute Bindings:

acronym	usage	constraints
CATSEA	O	value list = "51,53"
OBJNAM	M	
INFORM	C	
TXTDSC	C	
SCAMIN	M	min = "1"
SORDAT	C	format = "ccyymmdd"
SORIND	C	format = "cc,cc,ccccc,c..."

Feature	Silo/tank

Acronym: **SILTNK**   Code: 125

Type: G

Primitve: P,A

Data Dictionary (DD) Reference:

DD Name: S100   Date accepted: 2000-11-01

Definition: An enclosed container, used for storage (Digital Geographic Information Working
                  Group, Oct.87)

Attribute Bindings:

acronym	usage	constraints
OBJNAM	O	
PRODCT	O	value list = "1,2,3,4,5,6,7,8,14,15,17,21,22"
INFORM	C	
SCAMIN	M	min = "1"
SORDAT	C	format = "ccyymmdd"
SORIND	C	format = "cc,cc,ccccc,c..."

Feature	Shoreline construction

Acronym: **SLCONS**   Code: 122

Type: G

Primitve: P,L,A

Data Dictionary (DD) Reference:

DD Name: S100   Date accepted: 2000-11-01

Definition: A fixed (not afloat) artificial structure between the water and the land, i.e. a man-made
                   coastline.

Attribute Bindings:

acronym	usage	constraints
CATSLC	M	value list = "1,2,4,5,6,7,8,9,10,11,12,13,14,15,16"
NATCON	C	value list = "1,2,3,4,5,6,7,8,9"
OBJNAM	C	
STATUS	C	value list = "2,3,4,8,9,12,14,16,17"
WATLEV	O	value list = "1,2,3,4,5"
INFORM	O	
SCAMIN	M	min = "1"
SORDAT	C	format = "ccyymmdd"
SORIND	C	format = "cc,cc,ccccc,c..."

Feature	Sloping ground

Acronym: **SLOGRD** Code: 127

Type: G

Primitve: L,A

Data Dictionary (DD) Reference:

DD Name: S100 Date accepted: 2000-11-01

Definition: An inclined surface (adapted from IHO Dictionary, S-32, 5th Edition, 4776).

Attribute Bindings:

acronym	usage	constraints
CATSLO	M	value list = "2,3"
SCAMIN	M	min = "1"
SORDAT	C	format = "ccyymmdd"
SORIND	C	format = "cc,cc,ccccc,c..."

Feature	Slope topline

Acronym: **SLOTOP**   Code: 126

Type: G

Primitve: L

Data Dictionary (DD) Reference:

DD Name: S100   Date accepted: 2000-11-01

Definition: The upper marking of a slope, e.g. the ridge line or the separation line between two
                  different gradients.

Attribute Bindings:

acronym	usage	constraints
CATSLO	M	value list = "2,3"
SCAMIN	M	min = "1"
SORDAT	C	format = "ccyymmdd"
SORIND	C	format = "cc,cc,ccccc,c..."

Feature	Small craft facility

Acronym: **SMCFAC**   Code: 128

Type: G

Primitve: P,A

Data Dictionary (DD) Reference:

DD Name: S100   Date accepted: 2000-11-01

Definition: A place at which a service generally of interest to small craft or pleasure boats is available.

Attribute Bindings:

acronym	usage	constraints
CATSCF	M	value list = "1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33"
OBJNAM	O	
SCAMIN	M	min = "1"
TXTDSC	O	
SORDAT	C	format = "ccyymmdd"
SORIND	C	format = "cc,cc,ccccc,c..."

Feature	Sounding

Acronym: **SOUNDG**   Code: 129

Type: G

Primitve: P

Data Dictionary (DD) Reference:

DD Name: S100   Date accepted: 2000-11-01

Definition: A measured water depth or spot which has been reduced to a vertical datum (may be a drying height).

Attribute Bindings:

acronym   usage   constraints

SCAMIN   M   min = "1"

SORDAT   C   format = "ccyymmdd"

SORIND   C   format = "cc,cc,ccccc,c..."

Feature	Topmark

Acronym: **TOPMAR**   Code: 144

Type: G

Primitve: P

<u>Data Dictionary (DD) Reference:</u>

DD Name: S100   Date accepted: 2000-11-01

Definition: A characteristic shape secured at the top of a buoy, or beacon, to aid in its
                  identification. (IHO Dictionary, S-32, 5th Edition, 5548)

<u>Attribute Bindings:</u>

acronym	usage	constraints
COLOUR	M	value list = "1,2,3,4,5,6,7,8,9,10,11,12,13"
COLPAT	C	value list = "1,2,3,4,5,6"
TOPSHP	M	value list = "1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33"
SCAMIN	M	min = "1"
SORDAT	C	format = "ccyymmdd"
SORIND	C	format = "cc,cc,ccccc,c..."

Feature	Tunnel

Acronym: **TUNNEL**   Code: 151

Type: G

Primitve: L,A

Data Dictionary (DD) Reference:

DD Name: S100   Date accepted: 2000-11-01

Definition: A passage that is open to the atmosphere at both ends, buried under the sea bed or
                    laid over the sea floor or bored under the ground or through mountains.

Attribute Bindings:

acronym	usage	constraints
BURDEP	O	unit = "m" decimal digits = "1"
HORCLR	M	unit = "m" decimal digits = "2"
OBJNAM	O	
VERCLR	M	unit = "m" decimal digits = "2"
SCAMIN	M	min = "1"
TXTDSC	O	
SORDAT	C	format = "ccyymmdd"
SORIND	C	format = "cc,cc,ccccc,c..."

Feature	Two-way route part

Acronym: **TWRTPT**   Code: 152

Type: G

Primitve: A

Data Dictionary (DD) Reference:

DD Name: S100   Date accepted: 2000-11-01

Definition: A two-way route is a route within defined limits inside which two-way traffic is
                    established, aimed at providing safe passage of ships through waters where navigation
                    is difficult or dangerous. (IHO Dictionary, S-32, 5th Edition, 5712). A two-way route part
                    is an area of a two-way route within which traffic flow is generally along one bearing
                    (and possibly its reciprocal).

Attribute Bindings:

acronym	usage	constraints
ORIENT	M	unit = "deg" decimal digits = "2"
TRAFIC	M	value list = "1,2,3,4"
SCAMIN	M	min = "1"
SORDAT	C	format = "ccyymmdd"
SORIND	C	format = "cc,cc,ccccc,c..."

Feature	Underwater/awash rock

Acronym: **UWTROC**   Code: 153

Type: G

Primitve: P

Data Dictionary (DD) Reference:

DD Name: S100   Date accepted: 2000-11-01

Definition: A concreted mass of stony material or coral which dries, is awash or is below the water
                  surface.

Attribute Bindings:

acronym	usage	constraints
VALSOU	M	unit = "m" decimal digits = "2"
WATLEV	M	value list = "1,2,3,4,5"
SCAMIN	M	min = "1"
SORDAT	C	format = "ccyymmdd"
SORIND	C	format = "cc,cc,ccccc,c..."

Feature	Vegetation

Acronym: **VEGATN**   Code: 155

Type: G

Primitve: P,A

Data Dictionary (DD) Reference:

DD Name: S100   Date accepted: 2000-11-01

Definition: Collections of, or individual plants.

Attribute Bindings:

acronym	usage	constraints
CATVEG	M	value list = "6,13"
CONVIS	O	value list = "1,2"
SCAMIN	M	min = "1"
SORDAT	C	format = "ccyymmdd"
SORIND	C	format = "cc,cc,ccccc,c..."

Feature	Wreck

Acronym: **WRECKS**   Code: 159

Type: G

Primitve: P,A

Data Dictionary (DD) Reference:

DD Name: S100   Date accepted: 2000-11-01

Definition: The ruined remains of a stranded or sunken vessel which has been rendered useless.
                  (IHO Dictionary, S-32, 5th Edition, 6027)

Attribute Bindings:

acronym	usage	constraints
CATWRK	M	value list = "1,2"
VALSOU	C	unit = "m" decimal digits = "2"
WATLEV	O	value list = "1,2,3,4,5"
SCAMIN	M	min = "1"
SORDAT	C	format = "ccyymmdd"
SORIND	C	format = "cc,cc,ccccc,c..."

Feature	Aggregation

Acronym: **C_AGGR**   Code: 400

Type: O

Primitve: N

Data Dictionary (DD) Reference:

DD Name: S100   Date accepted: 2000-11-01

Definition: Used to identify an aggregation of two or more objects. This aggregation may be
                   named.

Attribute Bindings:

acronym	usage	constraints
NOBJNM	O	
OBJNAM	O	
INFORM	O	
NINFOM	O	
NTXTDS	O	
PICREP	O	
SCAMIN	M	min = "1"
TXTDSC	O	
SORDAT	C	format = "ccyymmdd"
SORIND	C	format = "cc,cc,ccccc,c..."

Feature	Anchor berth

Acronym: **achbrt**   Code: 17000

Type: G

Primitve: P,A

Data Dictionary (DD) Reference:

DD Name: IENC   Date accepted: 2001-05-31

Definition: A designated area of water where a single vessel, sea plane, etc... may anchor.

Attribute Bindings:

acronym	usage	constraints
catach	O	value list = "1,2,3,4,5,6,7,9,10,11"
clsdng	O	value list = "1,2,3,4"
OBJNAM	O	
restrn	O	value list = "1,2,7,8,13,14,27,28,29,30,31,32,33,34,35,36"
STATUS	O	value list = "2,3,4,8,9,12,14,16,17"
unlocd	C	
INFORM	O	
NINFOM	O	
SCAMIN	M	min = "1"
TXTDSC	O	
SORDAT	C	format = "ccyymmdd"
SORIND	C	format = "cc,cc,ccccc,c..."

Feature	Anchorage area

Acronym: **achare**   Code: 17001

Type: G

Primitve: P,A

Data Dictionary (DD) Reference:

DD Name: IENC   Date accepted: 2001-05-31

Definition: An area in which vessels anchor or may anchor. (IHO Dictionary, S-32, 5th Edition, 130)

Attribute Bindings:

acronym	usage	constraints
catach	O	value list = "1,2,3,4,5,6,7,9,10,11"
clsdng	O	value list = "1,2,3,4"
OBJNAM	O	
restrn	O	value list = "1,2,7,8,13,14,27,28,29,30,31,32,33,34,35,36"
STATUS	O	value list = "2,3,4,8,9,12,14,16,17"
unlocd	C	
INFORM	O	
NINFOM	O	
SCAMIN	M	min = "1"
TXTDSC	O	
SORDAT	C	format = "ccyymmdd"
SORIND	C	format = "cc,cc,ccccc,c..."

Feature	Beacon, lateral

Acronym: **bcnlat**   Code: 17028

Type: G

Primitve: P

Data Dictionary (DD) Reference:

DD Name: IENC   Date accepted: 2001-05-31

Definition: A beacon, is a prominent specially constructed object forming a conspicuous mark as a fixed aid to navigation or for use in hydrographic survey (IHO Dictionary, S-32, 5th Edition, 420). A lateral beacon, is used to indicate the port or starboard hand side of the route to be followed. They are generally used for well defined channels and are used in conjunction with a conventional direction of buoyage. (UKHO NP 735, 5th Edition)

Attribute Bindings:

acronym	usage	constraints
BCNSHP	M	value list = "1,5"
catlam	M	value list = "1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23"
COLOUR	M	value list = "1,2,3,4,5,6,7,8,9,10,11,12,13"
COLPAT	C	value list = "1,2,3,4,5,6"
dirimp	C	value list = "1,2,3,4"
NOBJNM	O	
OBJNAM	O	
INFORM	O	
SCAMIN	M	min = "1"
SORDAT	C	format = "ccyymmdd"
SORIND	C	format = "cc,cc,ccccc,c..."

Feature	Berth

Acronym: **berths**   Code: 17010

Type: G

Primitve: P,L,A

Data Dictionary (DD) Reference:

DD Name: IENC   Date accepted: 2001-05-31

Definition: A named or numbered place where a vessel is moored at a wharf. (IHO Dictionary, S-32, 5th Edition, 470)

Attribute Bindings:

acronym	usage	constraints
catbrt	O	value list = "1,2,3,4,5,6,7,8"
clsdng	O	value list = "1,2,3,4"
DRVAL1	O	unit = "m" decimal digits = "2"
OBJNAM	O	
STATUS	O	value list = "2,3,4,8,9,12,14,16,17"
trshgd	O	value list = "1,2,3,4,5,6,7,8,9,10"
unlocd	C	
INFORM	O	
NINFOM	O	
SCAMIN	M	min = "1"
TXTDSC	O	
SORDAT	C	format = "ccyymmdd"
SORIND	C	format = "cc,cc,ccccc,c..."

Feature	Bridge

Acronym: **bridge**   Code: 17011

Type: G

Primitve: A

Data Dictionary (DD) Reference:

DD Name: IENC   Date accepted: 2001-05-31

Definition: A structure erected over a depression or an obstacle such as a body of water, railroad, etc... to provide a roadway for vehicles, pedestrians or to carry utility services. (IHO Dictionary, S-32, 5th Edition, 544)

Attribute Bindings:

acronym	usage	constraints
CATBRG	M	value list = "1,3,4,5,12"
HORCLR	O	unit = "m" decimal digits = "2"
VERCCL	C	unit = "m" decimal digits = "2"
VERCLR	C	unit = "m" decimal digits = "2"
VERCOP	C	unit = "m" decimal digits = "2"
unlocd	C	
verdat	C	value list = "12,31,32,33,34,35,36,37,38,39,40,41"
wtwdis	M	decimal digits = "1"
INFORM	C	
PICREP	O	
SCAMIN	M	min = "1"
SORDAT	C	format = "ccyymmdd"
SORIND	C	format = "cc,cc,ccccc,c..."

Feature	Bunker station

Acronym: **bunsta**   Code: 17054

Type: G

Primitve: P

Data Dictionary (DD) Reference:

DD Name: IENC   Date accepted: 2001-05-31

Definition: A station, at which a ship is able to bunker fuel, water or ballast

Attribute Bindings:

acronym	usage	constraints
bunves	M	value list = "1,2"
catbun	O	value list = "1,2,3"
OBJNAM	O	
unlocd	C	
INFORM	O	
SCAMIN	M	min = "1"
TXTDSC	O	
SORDAT	C	format = "ccyymmdd"
SORIND	C	format = "cc,cc,ccccc,c..."

Feature	Buoy, lateral

Acronym: **boylat**

Code: 17029

Type: G

Primitve: P

Data Dictionary (DD) Reference:

DD Name: IENC

Date accepted: 2001-05-31

Definition:

A buoy, is a floating object moored to the bottom in a particular place, as an aid to navigation or for other specific purposes. (IHO Dictionary, S-32, 5th Edition, 565). A lateral buoy, is used to indicate the right-hand or left-hand side of a channel limit in the waterway.

Attribute Bindings:

acronym	usage	constraints
BOYSHP	M	value list = "1,2,3,4,5,6,8"
catlam	M	value list = "1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23"
COLOUR	M	value list = "1,2,3,4,5,6,7,8,9,10,11,12,13"
COLPAT	C	value list = "1,2,3,4,5,6"
CONRAD	O	value list = "3"
marsys	C	value list = "1,2,9,10,11,12"
NOBJNM	O	
OBJNAM	C	
INFORM	O	
SCAMIN	M	min = "1"
SORDAT	C	format = "ccyymmdd"
SORIND	C	format = "cc,cc,ccccc,c..."

Feature	Cable, overhead

Acronym: **cblohd**   Code: 17012

Type: G

Primitve: L

Data Dictionary (DD) Reference:

DD Name: IENC   Date accepted: 2001-05-31

Definition: An overhead cable is an assembly of wires or fibres, or a wire rope or chain, which is
                  supported by structures such as poles or pylons and passing over or nearby navigable
                  waters. (Hydrographic Service, Royal Australian Navy).

Attribute Bindings:

acronym	usage	constraints
CATCBL	M	value list = "1,3,4,5,6"
VERCLR	M	unit = "m" decimal digits = "2"
verdat	O	value list = "12,31,32,33,34,35,36,37,38,39,40,41"
wtwdis	O	decimal digits = "1"
SCAMIN	M	min = "1"
SORDAT	C	format = "ccyymmdd"
SORIND	C	format = "cc,cc,ccccc,c..."

Feature	Checkpoint

Acronym: **chkpnt**   Code: 17027

Type: G

Primitve: P,A

Data Dictionary (DD) Reference:

DD Name: IENC   Date accepted: 2001-05-31

Definition: An official place to register, declare or check goods and people.

Attribute Bindings:

acronym	usage	constraints
catchp	M	value list = "1,2"
NATION	M	format = "cc"
OBJNAM	O	
unlocd	C	
SCAMIN	M	min = "1"
schref	O	
TXTDSC	O	
SORDAT	C	format = "ccyymmdd"
SORIND	C	format = "cc,cc,ccccc,c..."

Feature	Communication area

Acronym: **comare**   Code: 17055

Type: G

Primitve: A

Data Dictionary (DD) Reference:

DD Name: IENC   Date accepted: 2001-05-31

Definition: Indicates the coverage of an area, in which a vessel has to report or may request
                  information.

Attribute Bindings:

acronym	usage	constraints
catcom	O	value list = "1,2,3,4,5,6,7,8"
COMCHA	M	format = "xxxx;xxxx;...."
OBJNAM	O	
STATUS	O	value list = "2,3,4,8,9,12,14,16,17"
INFORM	O	
SCAMIN	M	min = "1"
TXTDSC	O	
SORDAT	C	format = "ccyymmdd"
SORIND	C	format = "cc,cc,ccccc,c..."

Feature	Conveyor

Acronym: **convyr**   Code: 17034

Type: G

Primitve: L

Data Dictionary (DD) Reference:

DD Name: IENC   Date accepted: 2001-05-31

Definition: A mechanical apparatus for moving bulk material or people from place to place (as by
                  a moving belt or chain of receptacles).

Attribute Bindings:

acronym	usage	constraints
CATCON	M	value list = "2"
OBJNAM	O	
PRODCT	O	value list = "1,2,3,4,5,6,7,8,14,15,17,21,22"
VERCLR	O	unit = "m" decimal digits = "2"
verdat	O	value list = "12,31,32,33,34,35,36,37,38,39,40,41"
SCAMIN	M	min = "1"
TXTDSC	O	
SORDAT	C	format = "ccyymmdd"
SORIND	C	format = "cc,cc,ccccc,c..."

Feature	Crane

Acronym: **cranes**   Code: 17030

Type: G

Primitve: P,A

Data Dictionary (DD) Reference:

DD Name: IENC   Date accepted: 2001-05-31

Definition: A machine for lifting, shifting and lowering objects or materials by means of a swinging boom or with a lifting apparatus supported on an overhead track. (Digital Geographic Information Working Group, Oct.87)

Attribute Bindings:

acronym	usage	constraints
CATCRN	M	value list = "2"
OBJNAM	O	
VERCLR	O	unit = "m" decimal digits = "2"
verdat	O	value list = "12,31,32,33,34,35,36,37,38,39,40,41"
SCAMIN	M	min = "1"
SORDAT	C	format = "ccyymmdd"
SORIND	C	format = "cc,cc,ccccc,c..."

Feature	Current, non-gravitational

Acronym: **curent**   Code: 17019

Type: G

Primitve: P,A

Data Dictionary (DD) Reference:

DD Name: IENC   Date accepted: 2001-05-31

Definition: Currents (non-gravitational) include either singly or in combination: ocean currents
                  (wind and/or density driven), inter-oceanic equalising currents, currents of navigable
                  rivers, river outflow effects offshore and other non-tidal flows.

Attribute Bindings:

acronym	usage	constraints
curvhw	C	unit = "km/h" decimal digits = "1"
curvlw	C	unit = "km/h" decimal digits = "1"
curvmw	C	unit = "km/h" decimal digits = "1"
curvow	C	unit = "km/h" decimal digits = "1"
dirimp	C	value list = "1,2,3,4"
hignam	C	
lownam	C	
meanam	C	
othnam	C	
ORIENT	C	unit = "deg" decimal digits = "2"
SCAMIN	M	min = "1"
SORDAT	C	format = "ccyymmdd"
SORIND	C	format = "cc,cc,ccccc,c..."

Feature	Depth area

Acronym: **depare**   Code: 17003

Type: G

Primitve: A

Data Dictionary (DD) Reference:

DD Name: IENC   Date accepted: 2001-05-31

Definition: A depth area is a water area whose depth is within a defined range of values.

Attribute Bindings:

acronym	usage	constraints
DRVAL1	M	unit = "m" decimal digits = "2"
DRVAL2	M	unit = "m" decimal digits = "2"
eleva1	C	unit = "m" decimal digits = "2"
eleva2	C	unit = "m" decimal digits = "2"
wtwdis	M	decimal digits = "1"
SORDAT	C	format = "ccyymmdd"
SORIND	C	format = "cc,cc,ccccc,c..."

Feature	distance mark

Acronym: **dismar**   Code: 17004

Type: G

Primitve: P

Data Dictionary (DD) Reference:

DD Name: IENC   Date accepted: 2001-05-31

Definition: A distance mark indicates the distance measured from an origin and consists of either
                  a solid visible structure or a distinct location without special installation. Usually found
                  on canals or rivers.

Attribute Bindings:

acronym	usage	constraints
CATDIS	M	value list = "1,2,3,4"
hunits	M	value list = "1,2,3,4,5,6"
unlocd	C	
wtwdis	M	decimal digits = "1"
SCAMIN	M	min = "1"
SORDAT	C	format = "ccyymmdd"
SORIND	C	format = "cc,cc,ccccc,c..."

Feature	Exceptional navigation strcuture

Acronym: **excnst**   Code: 17070

Type: G

Primitve: P,A

Data Dictionary (DD) Reference:

DD Name: IENC   Date accepted: 2001-05-31

Definition: An exceptional navigational construction like aqueduct, lift-lock, etc.

Attribute Bindings:

acronym	usage	constraints
catexs	M	value list = "1,2,3,4,5"
DRVAL1	M	unit = "m" decimal digits = "2"
unlocd	C	
verdat	M	value list = "12,31,32,33,34,35,36,37,38,39,40,41"
wtwdis	M	decimal digits = "1"
SCAMIN	M	min = "1"
SORDAT	C	format = "ccyymmdd"
SORIND	C	format = "cc,cc,ccccc,c..."

Feature	Ferry route

Acronym: **feryrt**   Code: 17013

Type: G

Primitve: L

Data Dictionary (DD) Reference:

DD Name: IENC   Date accepted: 2001-05-31

Definition: A route in a body of water where a ferry crosses from one shoreline to another. (Digital Geographic Information Working Group, Oct.87)

Attribute Bindings:

acronym	usage	constraints
catfry	M	value list = "4"
NOBJNM	O	
OBJNAM	O	
STATUS	O	value list = "2,3,4,8,9,12,14,16,17"
INFORM	O	
NINFOM	O	
NTXTDS	O	
PICREP	O	
SCAMIN	M	min = "1"
TXTDSC	O	
SORDAT	C	format = "ccyymmdd"
SORIND	C	format = "cc,cc,ccccc,c..."

Feature	Floating dock

Acronym: **flodoc**   Code: 17025

Type: G

Primitve: A

Data Dictionary (DD) Reference:

DD Name: IENC   Date accepted: 2001-05-31

Definition: A form of dry dock consisting of a floating structure of one or more sections which can
                be partly submerged by controlled flooding to receive a vessel, then raised by pumping
                out the water so that the vessel's bottom can be exposed. (IHO Dictionary, S-32, 5th
                Edition, 1427)

Attribute Bindings:

acronym	usage	constraints
HORCLR	O	unit = "m" decimal digits = "2"
HORLEN	O	unit = "m" decimal digits = "2"
horcll	O	unit = "m" decimal digits = "2"
horclw	O	unit = "m" decimal digits = "2"
HORWID	O	unit = "m" decimal digits = "2"
OBJNAM	O	
verdat	O	value list = "12,31,32,33,34,35,36,37,38,39,40,41"
SCAMIN	M	min = "1"
TXTDSC	O	
SORDAT	C	format = "ccyymmdd"
SORIND	C	format = "cc,cc,ccccc,c..."

Feature	Gate

Acronym: **gatcon**   Code: 17031

Type: G

Primitve: L,A

Data Dictionary (DD) Reference:

DD Name: IENC   Date accepted: 2001-05-31

Definition: A structure that may be swung, drawn, or lowered to block an entrance or
                   passageway. (United States Geological Survey, Jan.89)

Attribute Bindings:

acronym	usage	constraints
CATGAT	M	value list = "4"
HORCLR	M	unit = "m" decimal digits = "2"
VERCLR	O	unit = "m" decimal digits = "2"
verdat	O	value list = "12,31,32,33,34,35,36,37,38,39,40,41"
SCAMIN	M	min = "1"
SORDAT	C	format = "ccyymmdd"
SORIND	C	format = "cc,cc,ccccc,c..."

Feature	Harbour area (administrative)

Acronym: **hrbare**

Code: 17014

Type: G

Primitve: A

Data Dictionary (DD) Reference:

DD Name: IENC   Date accepted: 2001-05-31

Definition: The term "harbour" applies only to the area of water with the works necessary for its forma-tion, protections and maintenance (International Maritime Dictionary, 2d. Edition). A harbour area not only covers the area of water but also the area of land which supplies the harbour installations.

Attribute Bindings:

acronym	usage	constraints
cathbr	O	value list = "1,2,3,4"
OBJNAM	O	
unlocd	C	
SCAMIN	M	min = "1"
SORDAT	C	format = "ccyymmdd"
SORIND	C	format = "cc,cc,ccccc,c..."

Feature	Harbour basin

Acronym: **hrbbsn**   Code: 17056

Type: G

Primitve: A

<u>Data Dictionary (DD) Reference:</u>

DD Name: IENC   Date accepted: 2001-05-31

Definition: An enclosed area of water surrounded by quay walls constructed to provide means for
                  the transfer of cargos from and to ships (International Maritime Dictionary, 2d. Edtion).

<u>Attribute Bindings:</u>

acronym	usage	constraints
HORLEN	O	unit = "m" decimal digits = "2"
HORWID	O	unit = "m" decimal digits = "2"
OBJNAM	O	
unlocd	C	
SCAMIN	M	min = "1"
SORDAT	C	format = "ccyymmdd"
SORIND	C	format = "cc,cc,ccccc,c..."

Feature	Harbour facility

Acronym: **hrbfac**   Code: 17015

Type: G

Primitve: P,A

Data Dictionary (DD) Reference:

DD Name: IENC   Date accepted: 2001-05-31

Definition: A harbour installation with a service or commercial operation of public interest.

Attribute Bindings:

acronym	usage	constraints
cathaf	M	value list = "4,6,9,12,13,16,17"
SCAMIN	M	min = "1"
TXTDSC	O	
SORDAT	C	format = "ccyymmdd"
SORIND	C	format = "cc,cc,ccccc,c..."

Feature	Hulk

Acronym: **hulkes**   Code: 17020

Type: G

Primitve: A

<u>Data Dictionary (DD) Reference:</u>

DD Name: IENC   Date accepted: 2001-05-31

Definition: A permanently moored ship.

<u>Attribute Bindings:</u>

acronym	usage	constraints
cathlk	O	value list = "1,2,3,4,5,6"
OBJNAM	O	
unlocd	C	
SCAMIN	M	min = "1"
TXTDSC	O	
SORDAT	C	format = "ccyymmdd"
SORIND	C	format = "cc,cc,ccccc,c..."

Feature	Lock basin

Acronym: **lokbsn**   Code: 17016

Type: G

Primitve: A

Data Dictionary (DD) Reference:

DD Name: IENC   Date accepted: 2001-05-31

Definition: A lock basin is a wet dock in a waterway, permitting a ship to pass from one level to
                  another. (adapted from IHO Dictionary, S-32, 5th Edition, 2881)

Attribute Bindings:

acronym	usage	constraints
horcll	M	unit = "m" decimal digits = "2"
horclw	M	unit = "m" decimal digits = "2"
HORLEN	O	unit = "m" decimal digits = "2"
HORWID	O	unit = "m" decimal digits = "2"
OBJNAM	O	
unlocd	C	
SCAMIN	M	min = "1"
TXTDSC	O	
SORDAT	C	format = "ccyymmdd"
SORIND	C	format = "cc,cc,ccccc,c..."

Feature	Lock basin part

Acronym: **lkbspt**   Code: 17058

Type: G

Primitve: A

Data Dictionary (DD) Reference:

DD Name: IENC   Date accepted: 2001-05-31

Definition: A lock basin is divided into several lock basin parts, if this lock basin has one ground
                  level but several gates.

Attribute Bindings:

acronym	usage	constraints
horcll	M	unit = "m" decimal digits = "2"
horclw	M	unit = "m" decimal digits = "2"
HORLEN	O	unit = "m" decimal digits = "2"
HORWID	O	unit = "m" decimal digits = "2"
OBJNAM	O	
unlocd	C	
SCAMIN	M	min = "1"
SORDAT	C	format = "ccyymmdd"
SORIND	C	format = "cc,cc,ccccc,c..."

Feature	Maximum permitted ship dimensions

Acronym: **lg_sdm**   Code: 18001

Type: G

Primitve: A

Data Dictionary (DD) Reference:

DD Name: IENC   Date accepted: 2001-05-31

Definition: Waterway or waterway section for which a juridical regulation with respect to the maximum permitted vessel dimensions exists.

Attribute Bindings:

acronym	usage	constraints
lg_rel	O	value list = "1,2,3,4"
lg_des	O	
lc_csi	O	value list = "1,2,3,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32"
lc_cse	O	value list = "1,2,3,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32"
lc_asi	O	value list = "1,2,3,5,6,7,8,9,10"
lc_ase	O	value list = "1,2,3,5,6,7,8,9,10"
lc_cci	O	value list = "1,2,4,5,6,7,8,9"
lc_cce	O	value list = "1,2,4,5,6,7,8,9"
lg_bme	O	unit = "m" decimal digits = "2"
lg_lgs	O	unit = "m" decimal digits = "2"
lg_drt	O	unit = "m" decimal digits = "2"
lg_wdp	O	decimal digits = "1"
lg_wdu	O	value list = "1,2,3"

acronym	usage	constraints
SORDAT	C	format = "ccyymmdd"
SORIND	C	format = "cc,cc,ccccc,c..."
lg_pbr	O	

Feature	Maximum permitted vessel speed

Acronym: **lg_vsp**   Code: 18002

Type: G

Primitve: A

Data Dictionary (DD) Reference:

DD Name: IENC   Date accepted: 2001-05-31

Definition: Waterway or waterway section for which a juridical regulation with respect to the maximum permitted vessel speed exists.

Attribute Bindings:

acronym	usage	constraints
lg_rel	O	value list = "1,2,3,4"
lg_des	O	
lc_csi	O	value list = "1,2,3,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32"
lc_cse	O	value list = "1,2,3,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32"
lc_asi	O	value list = "1,2,3,5,6,7,8,9,10"
lc_ase	O	value list = "1,2,3,5,6,7,8,9,10"
lc_cci	O	value list = "1,2,4,5,6,7,8,9"
lc_cce	O	value list = "1,2,4,5,6,7,8,9"
lc_wd1	O	decimal digits = "1"
lc_wd2	O	decimal digits = "1"
lg_wdu	O	value list = "1,2,3"
lg_spd	O	unit = "km/h" decimal digits = "2"
lg_spr	O	value list = "1,2,3"

acronym	usage	constraints
lc_bm1	O	unit = "m" decimal digits = "2"
lc_bm2	O	unit = "m" decimal digits = "2"
lc_lg1	O	unit = "m" decimal digits = "2"
lc_lg2	O	unit = "m" decimal digits = "2"
lc_dr1	O	unit = "m" decimal digits = "2"
lc_dr2	O	unit = "m" decimal digits = "2"
SORDAT	C	format = "ccyymmdd"
SORIND	C	format = "cc,cc,ccccc,c..."
lg_pbr	O	

Feature	Navigational system of marks

Acronym: **m_nsys**   Code: 17018

Type: M

Primitve: A

Data Dictionary (DD) Reference:

DD Name: IENC   Date accepted: 2001-05-31

Definition: An area within which a specific system of navigational marks applies and/or a common
                    direction of buoyage.

Attribute Bindings:

acronym   usage   constraints

marsys   M   value list = "1,2,9,10,11,12"

SORDAT   C   format = "ccyymmdd"

SORIND   C   format = "cc,cc,ccccc,c..."

Feature	Notice mark

Acronym: **notmrk**

Code: 17050

Type: G

Primitve: P

Data Dictionary (DD) Reference:

DD Name: IENC

Date accepted: 2001-05-31

Definition: A signboard used to indicate prohibitions, regulations, restrictions, recommendations and general information which apply to a waterway or a section of a waterway

Attribute Bindings:

acronym	usage	constraints
addmrk	O	value list = "1,2,3,4,5"
catnmk	M	value list = "1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,3
dirimp	O	value list = "1,2,3,4"
disipd	O	unit = "m" decimal digits = "1"
disipu	O	unit = "m" decimal digits = "1"
disbk1	O	unit = "m" decimal digits = "1"
disbk2	O	unit = "m" decimal digits = "1"
fnctnm	M	value list = "1,2,3,4,5"
marsys	O	value list = "1,2,9,10,11,12"
ORIENT	C	unit = "deg" decimal digits = "2"
STATUS	O	value list = "2,3,4,8,9,12,14,16,17"
INFORM	O	
NINFOM	O	
SCAMIN	M	min = "1"

acronym	usage	constraints
SORDAT	C	format = "ccyymmdd"
SORIND	C	format = "cc,cc,ccccc,c..."

Feature	Pipeline, overhead

Acronym: **pipohd**   Code: 17024

Type: G

Primitve: L

Data Dictionary (DD) Reference:

DD Name: IENC   Date accepted: 2001-05-31

Definition: A pipeline is a string of interconnected pipes used for the transport of matter,
                  nowadays mainly oil or gas. (IHO Dictionary, S-32, 5th Edition, 3857). An overhead
                  pipeline is a pipeline supported by pylons and passing over or nearby navigable
                  waters.

Attribute Bindings:

acronym	usage	constraints
CATPIP	M	value list = "2,3,4,6"
PRODCT	M	value list = "1,2,3,4,5,6,7,8,14,15,17,21,22"
VERCLR	M	unit = "m" decimal digits = "2"
verdat	O	value list = "12,31,32,33,34,35,36,37,38,39,40,41"
wtwdis	O	decimal digits = "1"
INFORM	O	
SCAMIN	M	min = "1"
SORDAT	C	format = "ccyymmdd"
SORIND	C	format = "cc,cc,ccccc,c..."

Feature	Pontoon

Acronym: **ponton**   Code: 17021

Type: G

Primitve: A

Data Dictionary (DD) Reference:

DD Name: IENC   Date accepted: 2001-05-31

Definition: A floating structure, usually rectangular in shape which serves as landing, pier head or bridge support. (IHO Dictionary, S-32, 5th Edition, 3947)

Attribute Bindings:

acronym	usage	constraints
OBJNAM	O	
unlocd	C	
SCAMIN	M	min = "1"
TXTDSC	O	
SORDAT	C	format = "ccyymmdd"
SORIND	C	format = "cc,cc,ccccc,c..."

Feature	port area

Acronym: **prtare**   Code: 17059

Type: G

Primitve: A

Data Dictionary (DD) Reference:

DD Name: IENC   Date accepted: 2001-05-31

Definition: Apart from harbours a port includes a city or borough with accommodation and
                  facilities for landing passangers and goods and some amount of overseas trade. A port
                  may possess a harbour but a harbour is not necessarily a port (International Maritime
                  Dictionary, 2d. Edition).

Attribute Bindings:

acronym	usage	constraints
OBJNAM	O	
unlocd	C	
SCAMIN	M	min = "1"
TXTDSC	O	
SORDAT	C	format = "ccyymmdd"
SORIND	C	format = "cc,cc,ccccc,c..."

Feature	Radio calling-in point

Acronym: **rdocal**   Code: 17017

Type: G

Primitve: P,L

Data Dictionary (DD) Reference:

DD Name: IENC   Date accepted: 2001-05-31

Definition: Also called radio reporting points, they have been established in certain busy
                  waterways and port approaches to assist traffic control. On passing these points
                  or crossing a defined line vessels are required to report on VHF to a Traffic Control
                  Centre. (adapted from IHO Chart Specifications, M-4)

Attribute Bindings:

acronym	usage	constraints
catcom	O	value list = "1,2,3,4,5,6,7,8"
COMCHA	M	format = "xxxx;xxxx;...."
OBJNAM	O	
ORIENT	M	unit = "deg" decimal digits = "2"
TRAFIC	M	value list = "1,2,3,4"
SCAMIN	M	min = "1"
SORDAT	C	format = "ccyymmdd"
SORIND	C	format = "cc,cc,ccccc,c..."

Feature	refuse dump

Acronym: **refdmp**   Code: 17062

Type: G

Primitve: P

Data Dictionary (DD) Reference:

DD Name: IENC   Date accepted: 2001-05-31

Definition: At a refuse dump ships are able to unload their refuse like waste oil or black water.

Attribute Bindings:

acronym	usage	constraints
catrfd	O	value list = "1,2,3,4"
OBJNAM	O	
INFORM	O	
SCAMIN	M	min = "1"
TXTDSC	O	
SORDAT	C	format = "ccyymmdd"
SORIND	C	format = "cc,cc,ccccc,c..."

Feature	Restricted area

Acronym: **resare**   Code: 17005

Type: G

Primitve: A

Data Dictionary (DD) Reference:

DD Name: IENC   Date accepted: 2001-05-31

Definition: A specified area designated by an appropriate authority within which navigation
                  is restricted in accordance with certain specified conditions. (adapted from IHO
                  Dictionary, S-32, 5th Edition, 4366)

Attribute Bindings:

acronym	usage	constraints
CATREA	O	value list = "4,5,9,12,19,22,23,25,26"
restrn	M	value list = "1,2,7,8,13,14,27,28,29,30,31,32,33,34,35,36"
NOBJNM	O	
OBJNAM	O	
NINFOM	O	
INFORM	C	
SCAMIN	M	min = "1"
SORDAT	C	format = "ccyymmdd"
SORIND	C	format = "cc,cc,ccccc,c..."

Feature	Shoreline Construction

Acronym: **slcons**   Code: 17032

Type: G

Primitve: L,A

Data Dictionary (DD) Reference:

DD Name: IENC   Date accepted: 2001-05-31

Definition: A fixed (not afloat) artificial structure between the water and the land, i.e. a man-made
                  coastline.

Attribute Bindings:

acronym	usage	constraints
CATSLC	M	value list = "1,2,4,5,6,7,8,9,10,11,12,13,14,15,16"
NATCON	O	value list = "1,2,3,4,5,6,7,8,9"
OBJNAM	C	
watlev	C	value list = "1,2,3,8,9"
SCAMIN	M	min = "1"
SORDAT	C	format = "ccyymmdd"
SORIND	C	format = "cc,cc,ccccc,c..."

Feature	Signal station, traffic

Acronym: **sistat**   Code: 17007

Type: G

Primitve: P

Data Dictionary (DD) Reference:

DD Name: IENC   Date accepted: 2001-05-31

Definition: A signal station is a place on shore from which signals are made to ships at sea. (IHO
                  Dictionary, S-32, 5th Edition, 4742). Traffic signal stations regulate the movement of
                  traffic. (IHO Chart Specifications, M-4)

Attribute Bindings:

acronym	usage	constraints
catsit	M	value list = "2,6,8,10"
dirimp	O	value list = "1,2,3,4"
NOBJNM	O	
OBJNAM	C	
INFORM	O	
SCAMIN	M	min = "1"
TXTDSC	O	
SORDAT	C	format = "ccyymmdd"
SORIND	C	format = "cc,cc,ccccc,c..."

Feature	Signal station, warning

Acronym: **sistaw**   Code: 17008

Type: G

Primitve: P

Data Dictionary (DD) Reference:

DD Name: IENC   Date accepted: 2001-05-31

Definition: A signal station is a place on shore from which signals are made to ships at sea. (IHO
                  Dictionary, S-32, 5th Edition, 4742)

Attribute Bindings:

acronym	usage	constraints
catsiw	M	value list = "15,16,18"
INFORM	O	
SCAMIN	M	min = "1"
TXTDSC	C	
SORDAT	C	format = "ccyymmdd"
SORIND	C	format = "cc,cc,ccccc,c..."

Feature	Sounding datum

Acronym: **m_sdat**   Code: 17022

Type: M

Primitve: A

Data Dictionary (DD) Reference:

DD Name: IENC   Date accepted: 2001-05-31

Definition: An area of uniform sounding datum.

Attribute Bindings:

acronym	usage	constraints
verdat	M	value list = "12,31,32,33,34,35,36,37,38,39,40,41"
SORDAT	C	format = "ccyymmdd"
SORIND	C	format = "cc,cc,ccccc,c..."

Feature	terminal

Acronym: **termnl**   Code: 17064

Type: G

Primitve: P,A

Data Dictionary (DD) Reference:

DD Name: IENC   Date accepted: 2001-05-31

Definition: A terminal covers that area on shore which provides buildings and constructions for the
                  trans-fer of cargos from and to ships.

Attribute Bindings:

acronym	usage	constraints
cathaf	M	value list = "1,3,7,8,10,11"
OBJNAM	O	
trshgd	O	value list = "1,2,3,4,5,6,7,8,9,10"
unlocd	C	
SCAMIN	M	min = "1"
TXTDSC	O	
SORDAT	C	format = "ccyymmdd"
SORIND	C	format = "cc,cc,ccccc,c..."

Feature	Time Schedule - in general

Acronym: **tisdge**   Code: 17068

Type: O

Primitve: N

Data Dictionary (DD) Reference:

DD Name: IENC   Date accepted: 2001-05-31

Definition: A schedule listing events and the times at which they will take place
(www.wordiq.com/dictionary).

Attribute Bindings:

acronym	usage	constraints
aptref	O	
cattab	M	value list = "1,2"
dirimp	O	value list = "1,2,3,4"
schref	M	
shptyp	M	value list = "1,2,3,4,5,6,7,8,9,10,11,12,13,14,15"
useshp	M	value list = "1,2,3"
SORDAT	C	format = "ccyymmdd"
SORIND	C	format = "cc,cc,ccccc,c..."

Feature	turning basin

Acronym: **trnbsn**   Code: 17065

Type: G

Primitve: P,A

Data Dictionary (DD) Reference:

DD Name: IENC   Date accepted: 2001-05-31

Definition: An area of water or enlargement of a channel used for turning vessels (International
                  Maritime Dictionary, 2d Edition).

Attribute Bindings:

acronym	usage	constraints
HORCLR	O	unit = "m" decimal digits = "2"
OBJNAM	O	
unlocd	C	
INFORM	O	
SCAMIN	M	min = "1"
SORDAT	C	format = "ccyymmdd"
SORIND	C	format = "cc,cc,ccccc,c..."

Feature	Underwater rock / awash rock

Acronym: **uwtroc**   Code: 17033

Type: G

Primitve: P

Data Dictionary (DD) Reference:

DD Name: IENC   Date accepted: 2001-05-31

Definition: A concreted mass of stony material or coral which dries, is awash or is below the water
                    surface.

Attribute Bindings:

acronym	usage	constraints
VALSOU	M	unit = "m" decimal digits = "2"
watlev	M	value list = "1,2,3,8,9"
SCAMIN	M	min = "1"
SORDAT	C	format = "ccyymmdd"
SORIND	C	format = "cc,cc,ccccc,c..."

Feature	Vehicle transfer

Acronym: **vehtrf**   Code: 17069

Type: G

Primitve: P,A

Data Dictionary (DD) Reference:

DD Name: IENC   Date accepted: 2001-05-31

Definition: A place where vehicles can be loaded or unloaded from the inland vessel with onboard or on-shore facilities.

Attribute Bindings:

acronym	usage	constraints
catvtr	M	value list = "1,2,3,4,5,6"
HEIGHT	M	unit = "m" decimal digits = "2"
unlocd	C	
verdat	O	value list = "12,31,32,33,34,35,36,37,38,39,40,41"
SCAMIN	M	min = "1"
TXTDSC	O	
SORDAT	C	format = "ccyymmdd"
SORIND	C	format = "cc,cc,ccccc,c..."

Feature	Vertical datum

Acronym: **m_vdat**   Code: 17023

Type: M

Primitve: A

Data Dictionary (DD) Reference:

DD Name: IENC   Date accepted: 2001-05-31

Definition: An area of uniform vertical datum.

Attribute Bindings:

acronym	usage	constraints
verdat	M	value list = "12,31,32,33,34,35,36,37,38,39,40,41"
INFORM	O	
NINFOM	O	
NTXTDS	O	
TXTDSC	O	
SORDAT	C	format = "ccyymmdd"
SORIND	C	format = "cc,cc,ccccc,c..."

Feature	Waterway area

Acronym: **wtware**   Code: 17066

Type: G

Primitve: A

Data Dictionary (DD) Reference:

DD Name: IENC   Date accepted: 2001-05-31

Definition: An area in which uniform general information of the waterway exists.

Attribute Bindings:

acronym	usage	constraints
catccl	M	value list = "1,2,3,4,5,6,7,8,9,10,11"
dirimp	M	value list = "1,2,3,4"
unlocd	C	
SCAMIN	M	min = "1"
SORDAT	C	format = "ccyymmdd"
SORIND	C	format = "cc,cc,ccccc,c..."

Feature	waterway axis

Acronym: **wtwaxs**   Code: 17051

Type: G

Primitve: L

Data Dictionary (DD) Reference:

DD Name: IENC   Date accepted: 2001-05-31

Definition: The waterway axis can be defined by e.g: - the middle line of a fairway, (Definition
                   of fairway: That part of a river, harbour; etc. where the main navigable channel for
                   vessels of larger size lies. It is also the usual course followed by vessels entering or
                   leaving harbours, called 'ship channel'. (International Maritime Dictionary, 2nd Ed.). -
                   the middle line of a water way (Definition of waterway: The waterway covers the entire
                   area of a river or canal).

Attribute Bindings:

acronym	usage	constraints
catccl	O	value list = "1,2,3,4,5,6,7,8,9,10,11"
NOBJNM	O	
OBJNAM	M	
SCAMIN	M	min = "1"
SORDAT	C	format = "ccyymmdd"
SORIND	C	format = "cc,cc,ccccc,c..."

Feature	Waterway gauge

Acronym: **wtwgag**   Code: 17067

Type: G

Primitve: P,A

Data Dictionary (DD) Reference:

DD Name: IENC   Date accepted: 2001-05-31

Definition: A waterway gauge is an instrument for measuring water levels

Attribute Bindings:

acronym	usage	constraints
catgag	O	value list = "1,2,3,4,5"
disipd	O	unit = "m" decimal digits = "1"
disipu	O	unit = "m" decimal digits = "1"
ELEVAT	O	unit = "m" decimal digits = "2"
higwat	O	unit = "m" decimal digits = "2"
hignam	O	
lowwat	O	unit = "m" decimal digits = "2"
lownam	O	
meawat	O	unit = "m" decimal digits = "2"
meanam	O	
NOBJNM	O	
OBJNAM	C	
othwat	O	unit = "m" decimal digits = "2"
othnam	O	
reflev	O	value list = "1,2,3,4,5,6,7,8,9"

acronym	usage	constraints
sdrlev	O	
unlocd	C	
vcrlev	O	
verdat	O	value list = "12,31,32,33,34,35,36,37,38,39,40,41"
wtwdis	O	decimal digits = "1"
SCAMIN	M	min = "1"
SORDAT	C	format = "ccyymmdd"
SORIND	C	format = "cc,cc,ccccc,c..."

Feature	waterway profile

Acronym: **wtwprf**   Code: 17052

Type: G

Primitve: L

Data Dictionary (DD) Reference:

DD Name: IENC   Date accepted: 2001-05-31

Definition: A waterway profile is a physically non-existent line which is normally the connection of
                  two op-posite distance marks. Waterway profiles can be used to define a special water
                  level.

Attribute Bindings:

acronym	usage	constraints
wtwdis	M	decimal digits = "1"
HEIGHT	C	unit = "m" decimal digits = "2"
reflev	C	value list = "1,2,3,4,5,6,7,8,9"
verdat	C	value list = "12,31,32,33,34,35,36,37,38,39,40,41"
SCAMIN	M	min = "1"
SORDAT	C	format = "ccyymmdd"
SORIND	C	format = "cc,cc,ccccc,c..."

Attribute	Beacon shape

Acronym: **BCNSHP** Code: 2

Use Type: F

Value Type: E

Data Dictionary (DD) Reference:

DD Name: S100 Date accepted: 2000-11-01

Definition:

Enumerations

Value Data Dictionary (DD) Reference

1 DD Name: S100 Code: BCNSHP_1 Date accepted: 2000-11-01

Name: stake, pole, perch, post

Definition: an elongated wood or metal pole, embedded in the bottom to serve as a navigational aid or a support for a navigational aid. (adapted from IHO Dictionary S-32, 5th Edition, 4960)

5 DD Name: S100 Code: BCNSHP_5 Date accepted: 2000-11-01

Name: pile beacon

Definition: a long heavy timber(s) or section(s) of steel, wood, concrete, etc., forced into the seabed to serve as an aid to navigation or as a support for an aid to navigation.(Adapted from IHO Dictionary, S-32, 5th Edition, 3840 and Navigation Dictionary, US National Oceanic and Atmospheric Administration - NOAA, 1969)

Attribute	Buoy shape

Acronym: **BOYSHP**   Code: 4

Use Type: F

Value Type: E

Data Dictionary (DD) Reference:

DD Name: S100   Date accepted: 2000-11-01

Definition:

Enumerations

Value   Data Dictionary (DD) Reference

1   DD Name: S100   Code: BOYSHP_1   Date accepted: 2000-11-01

           Name: conical (nun, ogival)

           Definition: the upper part of the body above the water-line, or the greater part of the
           superstructure, has approximately the shape or the appearance of a pointed cone with the
           point upwards.

2   DD Name: S100   Code: BOYSHP_2   Date accepted: 2000-11-01

           Name: can (cylindrical)

           Definition: the upper part of the body above the water-line, or the greater part of the
           superstructure, has the shape of a cylinder, or a truncated cone that approximates to a
           cylinder, with a flat end uppermost.

3   DD Name: S100   Code: BOYSHP_3   Date accepted: 2000-11-01

           Name: spherical

           Definition: the upper part of the body above the water-line, or the greater part of the
           superstructure, has the shape of a part of a sphere.

4   DD Name: S100   Code: BOYSHP_4   Date accepted: 2000-11-01

           Name: pillar

Value   Data Dictionary (DD) Reference

Definition: the upper part of the body above the water-line, or the greater part of the superstructure is a narrow vertical structure, pillar or lattice tower.

5   DD Name: S100   Code: BOYSHP_5   Date accepted: 2000-11-01

Name: spar (spindle)

Definition: the upper part of the body above the water-line, or the greater part of the superstructure, has the form of a pole, or of a very long cylinder, floating upright.

6   DD Name: S100   Code: BOYSHP_6   Date accepted: 2000-11-01

Name: barrel (tun)

Definition: the upper part of the body above the water-line, or the greater part of the superstructure, has the form of a barrel or cylinder floating horizontally.

8   DD Name: S100   Code: BOYSHP_8   Date accepted: 2000-11-01

Name: ice buoy

Definition: a specially constructed shuttle shaped buoy which is used in ice conditions.

Attribute	Buried depth

Acronym: **BURDEP**   Code: 5

Use Type: F

Value Type: F

Data Dictionary (DD) Reference:

DD Name: S100   Date accepted: 2000-11-01

Definition: The depth below the sea bed to which an object is buried.

Attribute	Category of airport/airfield

Acronym: **CATAIR**   Code: 7

Use Type: F

Value Type: L

Data Dictionary (DD) Reference:

DD Name: S100   Date accepted: 2000-11-01

Definition:

Enumerations

Value   Data Dictionary (DD) Reference

1   DD Name: S100   Code: CATAIR_1   Date accepted: 2000-11-01

        Name: military aeroplane airport

        Definition: a large military airfield usually equipped with a control tower, hangars and accommodation for the receiving and discharging of passengers or cargo. (adapted from The Macquarie Dictionary, 1988)

2   DD Name: S100   Code: CATAIR_2   Date accepted: 2000-11-01

        Name: civil aeroplane airport

        Definition: a large airfield usually equipped with a control tower, hangars and accommodation for the receiving and discharging of passengers or cargo. (The Macquarie Dictionary, 1988)

6   DD Name: S100   Code: CATAIR_6   Date accepted: 2000-11-01

        Name: small planes airfield

        Definition: an area of land set aside for the take-off and landing of small aeroplanes.

Attribute	Category of bridge

Acronym: **CATBRG**   Code: 9

Use Type: F

Value Type: L

Data Dictionary (DD) Reference:

DD Name: S100   Date accepted: 2000-11-01

Definition:

Enumerations

Value   Data Dictionary (DD) Reference

1   DD Name: S100   Code: CATBRG_1   Date accepted: 2000-11-01

             Name: fixed bridge

             Definition: a bridge having permanent horizontal and vertical alignment. (McGraw-Hill
             Dictionary of Scientific and Technical Terms, 3rd Edition, 1984)

3   DD Name: S100   Code: CATBRG_3   Date accepted: 2000-11-01

             Name: swing bridge

             Definition: a movable bridge (or span thereof) which rotates in a horizontal plane about a
             vertical pivot to allow the passage of vessels. (adapted from McGraw-Hill Encyclopaedia of
             Science and Technology, 7th Edition, 1992)

4   DD Name: S100   Code: CATBRG_4   Date accepted: 2000-11-01

             Name: lifting bridge

             Definition: a movable bridge (or span thereof) which is capable of being lifted vertically to
             allow vessels to pass beneath. (adapted from IHO Dictionary, S-32, 5th Edition, 547)

5   DD Name: S100   Code: CATBRG_5   Date accepted: 2000-11-01

             Name: bascule bridge

             Definition: a counterpoise bridge rotated in a vertical plane about an axis at one or both
             ends. Also called a balance. (IHO Dictionary, S-32, 5th Edition, 545)

Value   Data Dictionary (DD) Reference

12   DD Name: S100   Code: CATBRG_12   Date accepted: 2000-11-01

            Name: suspension bridge

            Definition: a fixed bridge consisting of either a roadway or a truss suspended from two or
            more cables which pass over towers and are anchored by backstays to a firm foundation.
            (McGraw-Hill Encyclopaedia of Science and Technology, 7th Edition, 1992)

Attribute	Category of built-up area

Acronym: **CATBUA**   Code: 10

Use Type: F

Value Type: E

Data Dictionary (DD) Reference:

DD Name: S100   Date accepted: 2000-11-01

Definition:

Enumerations

Value   Data Dictionary (DD) Reference

1   DD Name: S100   Code: CATBUA_1   Date accepted: 2000-11-01

               Name: urban area

               Definition: an area predominantly occupied by man-made structures used for residential, commercial, and industrial purposes. (Nautical Chart Manual, US Department of Commerce, 1992)

2   DD Name: S100   Code: CATBUA_2   Date accepted: 2000-11-01

               Name: settlement

               Definition: a small collection of dwellings in a remote area.

3   DD Name: S100   Code: CATBUA_3   Date accepted: 2000-11-01

               Name: village

               Definition: a collection of houses in a rural district, usually smaller than a town.

4   DD Name: S100   Code: CATBUA_4   Date accepted: 2000-11-01

               Name: town

               Definition: any considerable collection of dwellings and other buildings larger than a village, but not incorporated as a city.

5   DD Name: S100   Code: CATBUA_5   Date accepted: 2000-11-01

Value   Data Dictionary (DD) Reference

Name: city

Definition: a major town inhabited by a large permanent community with all essential services.

Value   Data Dictionary (DD) Reference

Attribute	Category of cable

Acronym: **CATCBL**   Code: 11

Use Type: F

Value Type: E

Data Dictionary (DD) Reference:

DD Name: S100   Date accepted: 2000-11-01

Definition:

Enumerations

Value   Data Dictionary (DD) Reference

1   DD Name: S100   Code: CATCBL_1   Date accepted: 2000-11-01

          Name: power line

          Definition: a cable used for the supply of electricity.

3   DD Name: S100   Code: CATCBL_3   Date accepted: 2000-11-01

          Name: transmission line

          Definition: multiple un-insulated cables usually supported by steel lattice towers. Such
          features are generally more prominent than normal power lines.

4   DD Name: S100   Code: CATCBL_4   Date accepted: 2000-11-01

          Name: telephone

          Definition: a cable used for the transmission of telephone signals.

5   DD Name: S100   Code: CATCBL_5   Date accepted: 2000-11-01

          Name: telegraph

          Definition: a cable used for the transmission of telegraph signals.

6   DD Name: S100   Code: CATCBL_6   Date accepted: 2000-11-01

          Name: mooring cable/chain

Value   Data Dictionary (DD) Reference

Definition: a cable or chain used to secure a mooring buoy or other floating structure.

Attribute	Category of cardinal mark

Acronym: **CATCAM**   Code: 13

Use Type: F

Value Type: E

<u>Data Dictionary (DD) Reference:</u>

DD Name: S100   Date accepted: 2000-11-01

Definition:

<u>Enumerations</u>

Value   Data Dictionary (DD) Reference

1   DD Name: S100   Code: CATCAM_1   Date accepted: 2000-11-01

             Name: north cardinal mark

             Definition: Quadrant bounded by the true bearing NW-NE taken from the point of interest it should be passed to the north side of the mark.

2   DD Name: S100   Code: CATCAM_2   Date accepted: 2000-11-01

             Name: east cardinal mark

             Definition: Quadrant bounded by the true bearing NE-SE taken from the point of interest it should be passed to the east side of the mark.

3   DD Name: S100   Code: CATCAM_3   Date accepted: 2000-11-01

             Name: south cardinal mark

             Definition: Quadrant bounded by the true bearing SE-SW taken from the point of interest it should be passed to the south side of the mark.

4   DD Name: S100   Code: CATCAM_4   Date accepted: 2000-11-01

             Name: west cardinal mark

             Definition: Quadrant bounded by the true bearing SW-NW taken from the point of interest it should be passed to the west side of the mark.

Attribute	Category of conveyor

Acronym: **CATCON**   Code: 17

Use Type: F

Value Type: E

Data Dictionary (DD) Reference:

DD Name: S100   Date accepted: 2000-11-01

Definition:

Enumerations

Value   Data Dictionary (DD) Reference

2   DD Name: S100   Code: CATCON_2   Date accepted: 2000-11-01

        Name: belt conveyor

        Definition: a conveyor along which material or people are transported by means of a moving belt.

Attribute	Category of coverage

Acronym: **CATCOV**   Code: 18

Use Type: F

Value Type: E

Data Dictionary (DD) Reference:

DD Name: S100   Date accepted: 2000-11-01

Definition:

Enumerations

Value   Data Dictionary (DD) Reference

1   DD Name: S100   Code: CATCOV_1   Date accepted: 2000-11-01

             Name: coverage available

             Definition: continuous coverage of spatial objects is available within this area.

2   DD Name: S100   Code: CATCOV_2   Date accepted: 2000-11-01

             Name: no coverage available

             Definition: an area containing no spatial objects.

Attribute	Category of crane

Acronym: **CATCRN**

Code: 19

Use Type: F

Value Type: E

Data Dictionary (DD) Reference:

DD Name: S100

Date accepted: 2000-11-01

Definition:

Enumerations

Value   Data Dictionary (DD) Reference

2   DD Name: S100   Code: CATCRN_2   Date accepted: 2000-11-01

Name: container crane/gantry

Definition: a high speed, shore-based crane used in the lift-on/lift-off operation of specially constructed containers. (adapted from Nautical Chart Manual, US Department of Commerce, Coast and Geodetic Survey, 7th Edition)

Attribute	Category of dam

Acronym: **CATDAM** Code: 20

Use Type: F

Value Type: E

Data Dictionary (DD) Reference:

DD Name: S100 Date accepted: 2000-11-01

Definition:

Enumerations

Value   Data Dictionary (DD) Reference

1   DD Name: S100   Code: CATDAM_1   Date accepted: 2000-11-01

          Name: weir

          Definition: a dam erected across a river to raise the level of the water. A fence of stakes set in a river or along the shore as a trap for fish.

2   DD Name: S100   Code: CATDAM_2   Date accepted: 2000-11-01

          Name: dam

          Definition: a barrier to check or confine anything in motion; particularly one constructed to hold back water and raise its level to form a reservoir, or to prevent flooding. (IHO Dictionary, S-32, 5th Edition, 1196)

Attribute	Category of distance mark

Acronym: **CATDIS**   Code: 21

Use Type: F

Value Type: E

Data Dictionary (DD) Reference:

DD Name: S100   Date accepted: 2000-11-01

Definition:

Enumerations

Value   Data Dictionary (DD) Reference

1   DD Name: S100   Code: CATDIS_1   Date accepted: 2000-11-01

          Name: distance mark not physically installed

          Definition: a point at which a distance from an origin along a feature is given for information, but at which no specific marker exists.

2   DD Name: S100   Code: CATDIS_2   Date accepted: 2000-11-01

          Name: visible mark, pole

          Definition: a point at which a distance from an origin along a feature is given for information and which is marked by a pole.

3   DD Name: S100   Code: CATDIS_3   Date accepted: 2000-11-01

          Name: visible mark, board

          Definition: a point at which a distance from an origin along a feature is given for information and which is marked by a board.

4   DD Name: S100   Code: CATDIS_4   Date accepted: 2000-11-01

          Name: visible mark, unknown shape

          Definition: a point at which a distance from an origin along a feature is given for information and which is physically marked, but the shape of the mark is not known or not given.

Attribute	Category of fence/wall

Acronym: **CATFNC**   Code: 24

Use Type: F

Value Type: E

Data Dictionary (DD) Reference:

DD Name: S100   Date accepted: 2000-11-01

Definition:

Enumerations

Value   Data Dictionary (DD) Reference

1   DD Name: S100   Code: CATFNC_1   Date accepted: 2000-11-01

             Name: fence

             Definition: a man made barrier used as an enclosure or boundary or for protection. (Digital
             Geographic Information Working Group -DGIWG, Oct. 1987)

4   DD Name: S100   Code: CATFNC_4   Date accepted: 2000-11-01

             Name: wall

             Definition: a fence constructed from masonry or stone.

Attribute	Category of fog signal

Acronym: **CATFOG**   Code: 27

Use Type: F

Value Type: E

Data Dictionary (DD) Reference:

DD Name: S100   Date accepted: 2000-11-01

Definition:

Enumerations

Value   Data Dictionary (DD) Reference

1   DD Name: S100   Code: CATFOG_1   Date accepted: 2000-11-01

          Name: explosive

          Definition: a signal produced by the firing of explosive charges. (Admiralty List of Lights and Fog Signals)

2   DD Name: S100   Code: CATFOG_2   Date accepted: 2000-11-01

          Name: diaphone

          Definition: a diaphone uses compressed air and generally emits a powerful low-pitched sound, which often concludes with a brief sound of suddenly lowered pitch, termed the 'grunt'. (Admiralty List of Lights and Fog Signals)

3   DD Name: S100   Code: CATFOG_3   Date accepted: 2000-11-01

          Name: siren

          Definition: a siren uses compressed air and exists in a variety of types which differ considerably in their sound and power. (Admiralty List of Lights and Fog Signals)

4   DD Name: S100   Code: CATFOG_4   Date accepted: 2000-11-01

          Name: nautophone

          Definition: a horn having a diaphragm oscillated by electricity (IHO Dictionary, S-32, 5th Edition, 3371).

Value	Data Dictionary (DD) Reference

5   DD Name: S100   Code: CATFOG_5   Date accepted: 2000-11-01

Name: reed

Definition: a reed uses compressed air and emits a weak, high pitched sound. (Admiralty List of Lights and Fog Signals)

6   DD Name: S100   Code: CATFOG_6   Date accepted: 2000-11-01

Name: tyfon

Definition: a diaphragm horn which operates under the influence of compressed air or steam (IHO Dictionary, S-32, 5th Edition, 5717).

7   DD Name: S100   Code: CATFOG_7   Date accepted: 2000-11-01

Name: bell

Definition: a ringing sound with a short range. The apparatus may be operated automatically, by hand or by wave action. (IHO Chart Specifications, M-4, 452.5)

8   DD Name: S100   Code: CATFOG_8   Date accepted: 2000-11-01

Name: whistle

Definition: a distinctive sound made by a jet of air passing through an orifice. The apparatus may be operated automatically, by hand or by air being forced up a tube by waves acting on a buoy. (IHO Chart Specifications, M-4, 452.6)

9   DD Name: S100   Code: CATFOG_9   Date accepted: 2000-11-01

Name: gong

Definition: a sound produced by vibration of a disc when struck. The apparatus may be operated automatically, by hand or by wave action. (IHO Chart Specifications, M-4, 452.7)

10   DD Name: S100   Code: CATFOG_10   Date accepted: 2000-11-01

Name: horn

Definition: a horn uses compressed air or electricity to vibrate a diaphragm and exists in a variety of types which differ greatly in their sound and power. (Admiralty List of Lights and Fog Signals)

Attribute	Category of ferry

Acronym: **CATFRY** Code: 25

Use Type: F

Value Type: E

Data Dictionary (DD) Reference:

DD Name: S100 Date accepted: 2000-11-01

Definition:

Enumerations

Value Data Dictionary (DD) Reference

1 DD Name: S100 Code: CATFRY_1 Date accepted: 2000-11-01

   Name: 'free-moving' ferry

   Definition: a ferry which may have routes that vary with weather, tide and traffic. (adapted from M-4)

2 DD Name: S100 Code: CATFRY_2 Date accepted: 2000-11-01

   Name: cable ferry

   Definition: a ferry that follows a fixed route guided by a cable. (adapted from IHO Specifications, M-4)

Attribute	Category of gate

Acronym: **CATGAT**   Code: 29

Use Type: F

Value Type: E

Data Dictionary (DD) Reference:

DD Name: S100   Date accepted: 2000-11-01

Definition:

Enumerations

Value   Data Dictionary (DD) Reference

4   DD Name: S100   Code: CATGAT_4   Date accepted: 2000-11-01

          Name: lock gate

          Definition: lock gates are the massive hinged doors at each end of a lock. (adapted from
          IHO Dictionary, S-32, 5th Edition, 2882)

Attribute	Category of harbour facility

Acronym: **CATHAF**   Code: 30

Use Type: F

Value Type: L

Data Dictionary (DD) Reference:

DD Name: S100   Date accepted: 2000-11-01

Definition:

Enumerations

Value   Data Dictionary (DD) Reference

5   DD Name: S100   Code: CATHAF_5   Date accepted: 2000-11-01

             Name: yacht harbour/marina

             Definition: a harbour with facilities for small boats and yachts (IHO Dictionary, S-32, 5th
             Edition, 3095).

Attribute	Category of hulk

Acronym: **CATHLK**   Code: 31

Use Type: F

Value Type: L

Data Dictionary (DD) Reference:

DD Name: S100   Date accepted: 2000-11-01

Definition:

Enumerations

Value   Data Dictionary (DD) Reference

1   DD Name: S100   Code: CATHLK_1   Date accepted: 2000-11-01

          Name: floating restaurant

          Definition: a permanently moored floating structure, such as an old ship, used as a
          restaurant.

2   DD Name: S100   Code: CATHLK_2   Date accepted: 2000-11-01

          Name: historic ship

          Definition: a ship of historical interest permanently moored as a tourist attraction.

3   DD Name: S100   Code: CATHLK_3   Date accepted: 2000-11-01

          Name: museum

          Definition: a permanently moored floating structure, such as an old ship, used as a museum.

4   DD Name: S100   Code: CATHLK_4   Date accepted: 2000-11-01

          Name: accommodation

          Definition: a permanently moored floating structure, such as an old ship, used for
          accommodation.

5   DD Name: S100   Code: CATHLK_5   Date accepted: 2000-11-01

Value   Data Dictionary (DD) Reference

Name: floating breakwater

Definition: a permanently moored floating structure, often constructed from old ships, used as a breakwater.

Attribute	Category of lateral mark

Acronym: **CATLAM**   Code: 36

Use Type: F

Value Type: E

Data Dictionary (DD) Reference:

DD Name: S100   Date accepted: 2000-11-01

Definition:

Enumerations

Value   Data Dictionary (DD) Reference

1   DD Name: S100   Code: CATLAM_1   Date accepted: 2000-11-01

           Name: port-hand lateral mark

           Definition: indicates the port boundary of a navigational channel or suggested route when
           proceeding in the 'conventional direction of buoyage'.

2   DD Name: S100   Code: CATLAM_2   Date accepted: 2000-11-01

           Name: starboard-hand lateral mark

           Definition: indicates the starboard boundary of a navigational channel or suggested route
           when proceeding in the 'conventional direction of buoyage'.

3   DD Name: S100   Code: CATLAM_3   Date accepted: 2000-11-01

           Name: preferred channel to starboard lateral mark

           Definition: at a point where a channel divides, when proceeding in the 'conventional direction
           of buoyage', the preferred channel (or primary route) is indicated by a modified port-hand
           lateral mark.

4   DD Name: S100   Code: CATLAM_4   Date accepted: 2000-11-01

           Name: preferred channel to port lateral mark

Value   Data Dictionary (DD) Reference

             Definition: at a point where a channel divides, when proceeding in the 'conventional
             direction of buoyage', the preferred channel (or primary route) is indicated by a modified
             starboard-hand lateral mark.

Attribute	Category of landmark

Acronym: **CATLMK**   Code: 35

Use Type: F

Value Type: L

Data Dictionary (DD) Reference:

DD Name: S100   Date accepted: 2000-11-01

Definition:

Enumerations

Value   Data Dictionary (DD) Reference

1   DD Name: S100   Code: CATLMK_1   Date accepted: 2000-11-01

            Name: cairn

            Definition: a mound of stones, usually conical or pyramidal, raised as a landmark or to
            designate a point of importance in surveying. (IHO Dictionary, S-32, 5th Edition, 601)

2   DD Name: S100   Code: CATLMK_2   Date accepted: 2000-11-01

            Name: cemetery

            Definition: an area of land for burying the dead.

3   DD Name: S100   Code: CATLMK_3   Date accepted: 2000-11-01

            Name: chimney

            Definition: a vertical structure containing a passage or flue for discharging smoke and gases.
            (Digital Geographic Information Standard - DIGEST)

4   DD Name: S100   Code: CATLMK_4   Date accepted: 2000-11-01

            Name: dish aerial

            Definition: a parabolic aerial for the receipt and transmission of high frequency radio signals.
            (IHO Dictionary, S-32, 5th Edition, 1400)

5   DD Name: S100   Code: CATLMK_5   Date accepted: 2000-11-01

Value	Data Dictionary (DD) Reference

Name: flagstaff (flagpole)

Definition: a staff or pole on which flags are raised. (Digital Geographic Information Standard - DIGEST 1.28)

6	DD Name: S100	Code: CATLMK_6	Date accepted: 2000-11-01

Name: flare stack

Definition: a tall structure used for burning-off waste oil or gas. (IHO Dictionary, S-32, 5th Edition, 1836). Normally showing a flame and located at refineries (IHO Chart specifications, M-4).

7	DD Name: S100	Code: CATLMK_7	Date accepted: 2000-11-01

Name: mast

Definition: a straight vertical piece of timber or a hollow cylinder. (adapted from Digital Geographic Information Standard - DIGEST)

8	DD Name: S100	Code: CATLMK_8	Date accepted: 2000-11-01

Name: wind sock

Definition: a tapered fabric sleeve mounted so as to catch and swing with the wind, thus indicating the wind direction. (Navigation dictionary, US National Oceanic and Atmospheric Administration - NOAA, 1969)

9	DD Name: S100	Code: CATLMK_9	Date accepted: 2000-11-01

Name: monument

Definition: a structure erected or maintained as a memorial to a person or event. (Digital Geographic Information Standard - DIGEST)

10	DD Name: S100	Code: CATLMK_10	Date accepted: 2000-11-01

Name: column (pillar)

Definition: a cylindrical or slightly tapering body of considerably greater length than diameter erected vertically. (Oxford English Dictionary)

11	DD Name: S100	Code: CATLMK_11	Date accepted: 2000-11-01

Name: memorial plaque

Definition: a slab of metal, usually ornamented, erected as a memorial to a person or event.

Value   Data Dictionary (DD) Reference

12   DD Name: S100   Code: CATLMK_12   Date accepted: 2000-11-01

          Name: obelisk

          Definition: a tapering shaft usually of stone or concrete, square or rectangular in section,
          with a pyramidal apex. (Adapted from Oxford English Dictionary)

13   DD Name: S100   Code: CATLMK_13   Date accepted: 2000-11-01

          Name: statue

          Definition: a representation of a human, animal or fantasy figure in marble, bronze, etc.

14   DD Name: S100   Code: CATLMK_14   Date accepted: 2000-11-01

          Name: cross

          Definition: a monument, or other structure in form of a cross. (Funk and Wagnalls Dictionary)

15   DD Name: S100   Code: CATLMK_15   Date accepted: 2000-11-01

          Name: dome

          Definition: a landmark comprising a hemispherical or spheroidal shaped structure (adapted
          from the Macquarie Dictionary).

16   DD Name: S100   Code: CATLMK_16   Date accepted: 2000-11-01

          Name: radar scanner

          Definition: a device used for directing a radar beam through a search pattern (adapted from
          Navigation Dictionary, US National Oceanic and Atmospheric Administration - NOAA, 1969)

17   DD Name: S100   Code: CATLMK_17   Date accepted: 2000-11-01

          Name: tower

          Definition: a relatively tall structure which may be used for observation, support, storage or
          communication etc. (Digital Geographic Information Working Group -DGIWG, Oct. 1987)

18   DD Name: S100   Code: CATLMK_18   Date accepted: 2000-11-01

          Name: windmill

          Definition: a wind driven system of vanes attached to a tower like structure (excluding
          wind-generated power plants). (Digital Geographic Information Standard - DIGEST)

19   DD Name: S100   Code: CATLMK_19   Date accepted: 2000-11-01

Value   Data Dictionary (DD) Reference

           Name: windmotor

           Definition: a modern structure for the use of windpower. (IHO Chart Specifications, M-4)

20   DD Name: S100   Code: CATLMK_20   Date accepted: 2000-11-01

           Name: spire/minaret

           Definition: a tall conical or pyramid-shaped structure often built on the roof or tower of a building, especially a church or mosque. (adapted from The New Shorter Oxford English Dictionary, 1993)

21   DD Name: S100   Code: CATLMK_21   Date accepted: 2000-11-01

           Name: large rock or boulder on land

           Definition: an isolated rocky formation or a single large stone (IHO Dictionary, S-32, 5th Edition).

22   DD Name: S100   Code: CATLMK_22   Date accepted: 2000-11-01

           Name: large rock or boulder on land

           Definition: an isolated rocky formation or a single large stone (IHO Dictionary, S-32, 5th Edition).

Attribute	Category of mooring/warping facility

Acronym: **CATMOR**   Code: 40

Use Type: F

Value Type: E

Data Dictionary (DD) Reference:

DD Name: S100   Date accepted: 2000-11-01

Definition:

Enumerations

Value   Data Dictionary (DD) Reference

1   DD Name: S100   Code: CATMOR_1   Date accepted: 2000-11-01

           Name: dolphin

           Definition: a post or group of posts, which may support a deck, used for mooring or warping
           a vessel. (IHO Dictionary, S-32, 5th Edition, 1433)

5   DD Name: S100   Code: CATMOR_5   Date accepted: 2000-11-01

           Name: post or pile

           Definition: a long heavy timber or section of steel, wood, concrete, etc., forced into the
           seabed to serve as a mooring facility. (IHO Dictionary, S-32, 5th Edition, 3840)

7   DD Name: S100   Code: CATMOR_7   Date accepted: 2000-11-01

           Name: mooring buoy

           Definition: a buoy secured to the bottom by permanent moorings with means for mooring a
           vessel by use of its anchor chain or mooring lines. (IHO Dictionary, S-32, 5th Edition, 575)

Attribute	Category of navigation line

Acronym: **CATNAV**   Code: 41

Use Type: F

Value Type: E

Data Dictionary (DD) Reference:

DD Name: S100   Date accepted: 2000-11-01

Definition:

Enumerations

Value   Data Dictionary (DD) Reference

1   DD Name: S100   Code: CATNAV_1   Date accepted: 2000-11-01

          Name: clearing line

          Definition: a straight line that marks the boundary between a safe and a dangerous area or that passes clear of a navigational danger. (adapted from IHO Dictionary, S-32, 5th Edition, 826)

2   DD Name: S100   Code: CATNAV_2   Date accepted: 2000-11-01

          Name: transit line

          Definition: a line passing through one or more fixed marks.

3   DD Name: S100   Code: CATNAV_3   Date accepted: 2000-11-01

          Name: leading line bearing a recommended track

          Definition: a line passing through one or more clearly defined objects, along the path of which a vessel can approach safely up to a certain distance off. (Adapted from IHO Dictionary, S-32, 5th Edition, 2696)

Attribute	Category of obstruction

Acronym: **CATOBS**   Code: 42

Use Type: F

Value Type: E

Data Dictionary (DD) Reference:

DD Name: S100   Date accepted: 2000-11-01

Definition:

Enumerations

Value   Data Dictionary (DD) Reference

1   DD Name: S100   Code: CATOBS_1   Date accepted: 2000-11-01

             Name: snag/stump

             Definition: a tree, branch or broken pile embedded in the ocean floor, river or lake bottom
             and not visible on the surface, forming thereby a hazard to vessels. (IHO Dictionary, S-32, 5th
             Edition, 4794)

2   DD Name: S100   Code: CATOBS_2   Date accepted: 2000-11-01

             Name: wellhead

             Definition: a submarine structure projecting some distance above the seabed and capping a
             temporarily abandoned or suspended oil or gas well. (IHO Dictionary, S-32, 5th Edition, 5976)

3   DD Name: S100   Code: CATOBS_3   Date accepted: 2000-11-01

             Name: diffuser

             Definition: a structure on an outfall through which liquids are discharged. The structure will
             usually project above the level of the outfall and can be an obstruction to navigation.

4   DD Name: S100   Code: CATOBS_4   Date accepted: 2000-11-01

             Name: crib

             Definition: a permanent structure set in the water, framed with wooden beams and filled
             with rocks or boulders. They are used to anchor log booms or support other constructions,

Value   Data Dictionary (DD) Reference

e.g. submerged outfalls, diffusers etc.. They may always be dry, submerged or cover and uncover.

| 5 | DD Name: S100 | Code: CATOBS_5 | Date accepted: 2000-11-01 |

Name: fish haven

Definition: areas established by private interests, usually sport fishermen, to simulate natural reefs and wrecks that attract fish. The reefs are constructed by dumping assorted junk in areas which may be of very small extent or may stretch a considerable distance along a depth contour. Also called fishery reefs.

| 6 | DD Name: S100 | Code: CATOBS_6 | Date accepted: 2000-11-01 |

Name: foul area

Definition: an area of numerous unidentified dangers to navigation. The area serves as a warning to the mariner that all dangers are not identified individually and that navigation through the area may be hazardous. Commonly used to encode areas behind danger lines on navigation charts. (adapted from IHO Dictionary, S-32, 5th Edition, 1915)

| 7 | DD Name: S100 | Code: CATOBS_7 | Date accepted: 2000-11-01 |

Name: foul ground

Definition: areas over which it is safe to navigate but which should be avoided for anchoring, taking the ground or ground fishing. (IHO Chart Specifications, M-4, 442.8)

| 8 | DD Name: S100 | Code: CATOBS_8 | Date accepted: 2000-11-01 |

Name: ice boom

Definition: floating barriers, anchored to the bottom, used to deflect the path of floating ice in order to prevent the obstruction of locks, intakes, etc., and to prevent damage to bridge piers and other structures. (Canadian Hydrographic Service, Chart specifications).

| 9 | DD Name: S100 | Code: CATOBS_9 | Date accepted: 2000-11-01 |

Name: ground tackle

Definition: equipment such as anchors, concrete blocks, chains and cables, etc., used to position floating structures such as trot and mooring buoys etc.

| 10 | DD Name: S100 | Code: CATOBS_10 | Date accepted: 2000-11-01 |

Name: boom

Definition: a floating barrier used to protect a river or harbour mouth or to create a sheltered area for storage purposes. (IHO Dictionary, S-32, 5th Edition, 505).

Attribute	Category of oil barrier

Acronym: **CATOLB** Code: 44

Use Type: F

Value Type: E

Data Dictionary (DD) Reference:

DD Name: S100 Date accepted: 2000-11-01

Definition:

Enumerations

Value Data Dictionary (DD) Reference

1 DD Name: S100 Code: CATOLB_1 Date accepted: 2000-11-01

Name: oil retention (high pressure pipe)

Definition: a pipe with holes from which air blows. When the air bubbles reach the surface they form a barrier which prevents the spread of oil. (Kort- og Matrikelstyrelsen, Denmark)

2 DD Name: S100 Code: CATOLB_2 Date accepted: 2000-11-01

Name: floating oil barrier

Definition: a floating tube shaped structure, with a curtain (2 metre) hanging under it, below the surface, which prevents the spread of oil. (Kort- og Matrikelstyrelsen, Denmark)

Attribute	Category of pipeline/pipe

Acronym: **CATPIP**   Code: 47

Use Type: F

Value Type: L

Data Dictionary (DD) Reference:

DD Name: S100   Date accepted: 2000-11-01

Definition:

Enumerations

Value   Data Dictionary (DD) Reference

2   DD Name: S100   Code: CATPIP_2   Date accepted: 2000-11-01

           Name: outfall pipe

           Definition: a pipe (generally a sewer or drainage pipe) discharging in to the sea or a river.

3   DD Name: S100   Code: CATPIP_3   Date accepted: 2000-11-01

           Name: intake pipe

           Definition: a pipe taking water from a river or other body of water, to drive a mill or supply a canal, waterworks, etc. (IHO Dictionary, S-32, 5th Edition, 2468)

4   DD Name: S100   Code: CATPIP_4   Date accepted: 2000-11-01

           Name: sewer

           Definition: a pipe in a sewage system for carrying water or sewage to a disposal area.

6   DD Name: S100   Code: CATPIP_6   Date accepted: 2000-11-01

           Name: supply pipe

           Definition: a pipe used for supplying of gas or liquid product.

Attribute	Category of pylon

Acronym: **CATPYL**   Code: 49

Use Type: F

Value Type: E

Data Dictionary (DD) Reference:

DD Name: S100   Date accepted: 2000-11-01

Definition:

Enumerations

Value   Data Dictionary (DD) Reference

1   DD Name: S100   Code: CATPYL_1   Date accepted: 2000-11-01

          Name: power transmission pylon/pole

          Definition: a vertical construction consisting, for example, of a steel framework or of
          pre-stressed concrete, to support a power transmission cable or line. (adapted from Digital
          Geographic Information Standard - DIGEST FACC 1.2)

2   DD Name: S100   Code: CATPYL_2   Date accepted: 2000-11-01

          Name: telephone/telegraph pylon/pole

          Definition: a pylon or pole used to support a telephone or telegraph line. (Digital Geographic
          Information Standard - DIGEST FACC 1.2)

3   DD Name: S100   Code: CATPYL_3   Date accepted: 2000-11-01

          Name: aerial cableway/sky pylon

          Definition: a tower or pylon supporting steel cables which convey cars, buckets, or other
          suspended carrier units. (adapted from Digital Geographic Information Standard - DIGEST
          FACC 1.2)

4   DD Name: S100   Code: CATPYL_4   Date accepted: 2000-11-01

          Name: bridge pylon/tower

Value   Data Dictionary (DD) Reference

Definition: a tower, abutment or pylon from which a bridge deck is suspended. (adapted from Digital Geographic Information Standard - DIGEST FACC 1.2)

5   DD Name: S100   Code: CATPYL_5   Date accepted: 2000-11-01

Name: bridge pier

Definition: a support in the form of a pillar or pier for the spans of a bridge. (adapted from Digital Geographic Information Standard - DIGEST FACC 1.2)

Attribute	Category of radar station

Acronym: **CATRAS**   Code: 51

Use Type: F

Value Type: E

Data Dictionary (DD) Reference:

DD Name: S100   Date accepted: 2000-11-01

Definition:

Enumerations

Value   Data Dictionary (DD) Reference

1   DD Name: S100   Code: CATRAS_1   Date accepted: 2000-11-01

            Name: radar surveillance station

            Definition: a radar station established for traffic surveillance. (IHO Dictionary, S-32, 5th
            Edition, 4144)

Attribute	Category of restricted area

Acronym: **CATREA**   Code: 56

Use Type: F

Value Type: L

Data Dictionary (DD) Reference:

DD Name: S100   Date accepted: 2000-11-01

Definition:

Enumerations

Value   Data Dictionary (DD) Reference

4   DD Name: S100   Code: CATREA_4   Date accepted: 2000-11-01

            Name: nature reserve

            Definition: a tract of land managed so as to preserve it's flora, fauna, physical features, etc.

5   DD Name: S100   Code: CATREA_5   Date accepted: 2000-11-01

            Name: bird sanctuary

            Definition: a place where birds are bred and protected.

9   DD Name: S100   Code: CATREA_9   Date accepted: 2000-11-01

            Name: military area

            Definition: an area controlled by the military in which restrictions may apply. (Hydrographic Service, Royal Australian Navy)

12   DD Name: S100   Code: CATREA_12   Date accepted: 2000-11-01

            Name: navigational aid safety zone

            Definition: an area around a navigational aid which vessels are prohibited from entering.

19   DD Name: S100   Code: CATREA_19   Date accepted: 2000-11-01

            Name: waiting area

Value   Data Dictionary (DD) Reference

Definition: an area reserved for vessels waiting to enter a harbour.

22   DD Name: S100   Code: CATREA_22   Date accepted: 2000-11-01

Name: fish sanctuary

Definition: a place where fish are protected.

23   DD Name: S100   Code: CATREA_23   Date accepted: 2000-11-01

Name: ecological reserve

Definition: a tract of land managed so as to preserve the relation of plants and living creatures to each other and to their surroundings.

25   DD Name: S100   Code: CATREA_25   Date accepted: 2000-11-01

Name: swinging area

Definition: an area where vessels turn. (Service Hydrographique et Océanographique de la Marine, France).

26   DD Name: S100   Code: CATREA_26   Date accepted: 2000-11-01

Name: water skiing area

Definition: an area within which people may water ski and therefore vessel movement may be restricted.

Attribute	Category of road

Acronym: **CATROD**   Code: 57

Use Type: F

Value Type: E

<u>Data Dictionary (DD) Reference:</u>

DD Name: S100   Date accepted: 2000-11-01

Definition:

<u>Enumerations</u>

Value   Data Dictionary (DD) Reference

1   DD Name: S100   Code: CATROD_1   Date accepted: 2000-11-01

             Name: motorway

             Definition: a main road with separate carriageways and limited access, specially constructed
             and controlled for fast motor traffic.

2   DD Name: S100   Code: CATROD_2   Date accepted: 2000-11-01

             Name: major road

             Definition: a hard surfaced (metalled) road; a main through route.

3   DD Name: S100   Code: CATROD_3   Date accepted: 2000-11-01

             Name: minor road

             Definition: a secondary road for local traffic.

4   DD Name: S100   Code: CATROD_4   Date accepted: 2000-11-01

             Name: track/path

             Definition: track - a rough path or way formed by use. path - a way or track laid down for
             walking or made by continual treading.

Attribute	Category of radar transponder beacon

Acronym: **CATRTB**   Code: 52

Use Type: F

Value Type: E

Data Dictionary (DD) Reference:

DD Name: S100   Date accepted: 2000-11-01

Definition:

Enumerations

Value   Data Dictionary (DD) Reference

1   DD Name: S100   Code: CATRTB_1   Date accepted: 2000-11-01

             Name: ramark, radar beacon transmitting continuously

             Definition: a radar marker beacon which continuously transmits a signal appearing as a
             radial line on a radar screen, the line indicating the direction of the beacon. Ramarks are
             intended primarily for marine use. The name 'ramark' is derived from the words radar marker.
             (IHO Dictionary, S-32, 5th Edition, 4208)

2   DD Name: S100   Code: CATRTB_2   Date accepted: 2000-11-01

             Name: racon, radar transponder beacon

             Definition: a radar beacon which returns a coded signal which provides identification of the
             beacon, as well as range and bearing. The range and bearing are indicated by the location of
             the first character received on the radar screen. The name 'racon' is derived from the words
             radar beacon. (IHO Dictionary, S-32, 5th Edition, 4132)

3   DD Name: S100   Code: CATRTB_3   Date accepted: 2000-11-01

             Name: leading racon/radar transponder beacon

             Definition: a radar beacon that may be used (in conjunction with at least one other radar
             beacon) to indicate a leading line.

Attribute	Category of small craft facility

Acronym: **CATSCF**   Code: 65

Use Type: F

Value Type: L

Data Dictionary (DD) Reference:

DD Name: S100   Date accepted: 2000-11-01

Definition:

Enumerations

Value   Data Dictionary (DD) Reference

1   DD Name: S100   Code: CATSCF_1   Date accepted: 2000-11-01

            Name: visitor's berth

            Definition: a berth set aside for the use of visiting vessels.

2   DD Name: S100   Code: CATSCF_2   Date accepted: 2000-11-01

            Name: nautical club

            Definition: a club for mariners generally associated with other small craft facilities.

3   DD Name: S100   Code: CATSCF_3   Date accepted: 2000-11-01

            Name: boat hoist

            Definition: a hoist for lifting boats out of the water.

4   DD Name: S100   Code: CATSCF_4   Date accepted: 2000-11-01

            Name: sailmaker

            Definition: a place where sails are made or may be taken for repair.

5   DD Name: S100   Code: CATSCF_5   Date accepted: 2000-11-01

            Name: boatyard

            Definition: a place on shore where boats may be built, stored and repaired.

Value   Data Dictionary (DD) Reference

6   DD Name: S100   Code: CATSCF_6   Date accepted: 2000-11-01

             Name: public inn

             Definition: a public house providing food, drink and accommodation. (The Collins Reference
             English Dictionary, 1992)

7   DD Name: S100   Code: CATSCF_7   Date accepted: 2000-11-01

             Name: restaurant

             Definition: a commercial establishment serving food. (The Collins Reference Dictionary,
             1992)

8   DD Name: S100   Code: CATSCF_8   Date accepted: 2000-11-01

             Name: chandler

             Definition: a dealer in ships' supplies. (The Collins Reference Dictionary, 1992)

9   DD Name: S100   Code: CATSCF_9   Date accepted: 2000-11-01

             Name: provisions

             Definition: a place where food and other such supplies are available.

10   DD Name: S100   Code: CATSCF_10   Date accepted: 2000-11-01

             Name: doctor

             Definition: a place where a doctor is available to provide medical attention.

11   DD Name: S100   Code: CATSCF_11   Date accepted: 2000-11-01

             Name: pharmacy

             Definition: a place where medical drugs are dispensed.

12   DD Name: S100   Code: CATSCF_12   Date accepted: 2000-11-01

             Name: water tap

             Definition: a place where fresh water is available.

13   DD Name: S100   Code: CATSCF_13   Date accepted: 2000-11-01

             Name: fuel station

             Definition: a place where fuel is available.

Value   Data Dictionary (DD) Reference

14	DD Name: S100	Code: CATSCF_14	Date accepted: 2000-11-01

Name: electricity

Definition: a place where a connection to an electrical supply is available.

15	DD Name: S100	Code: CATSCF_15	Date accepted: 2000-11-01

Name: bottle gas

Definition: a place where bottled gas is available.

16	DD Name: S100	Code: CATSCF_16	Date accepted: 2000-11-01

Name: showers

Definition: a place where showers are available.

17	DD Name: S100	Code: CATSCF_17	Date accepted: 2000-11-01

Name: launderette

Definition: a place where there are facilities for washing clothes.

18	DD Name: S100	Code: CATSCF_18	Date accepted: 2000-11-01

Name: public toilets

Definition: a place where toilets are available for public use.

19	DD Name: S100	Code: CATSCF_19	Date accepted: 2000-11-01

Name: post box

Definition: a place where mail may be posted.

20	DD Name: S100	Code: CATSCF_20	Date accepted: 2000-11-01

Name: public telephone

Definition: a place where a telephone is available for public use.

21	DD Name: S100	Code: CATSCF_21	Date accepted: 2000-11-01

Name: refuse bin

Definition: a place where refuse may be dumped.

22	DD Name: S100	Code: CATSCF_22	Date accepted: 2000-11-01

| Value | Data Dictionary (DD) Reference |

Name: car park

Definition: a place where cars may be parked.

| 23 | DD Name: S100 | Code: CATSCF_23 | Date accepted: 2000-11-01 |

Name: parking for boats and trailers

Definition: a place on shore where boats and/or trailers may be parked.

| 24 | DD Name: S100 | Code: CATSCF_24 | Date accepted: 2000-11-01 |

Name: caravan site

Definition: a place where caravans may be parked or where caravan accommodation is provided.

| 25 | DD Name: S100 | Code: CATSCF_25 | Date accepted: 2000-11-01 |

Name: camping site

Definition: a place where visitors may pitch tents and camp.

| 26 | DD Name: S100 | Code: CATSCF_26 | Date accepted: 2000-11-01 |

Name: sewerage pump-out station

Definition: a place where sewerage may be pumped off a vessel.

| 27 | DD Name: S100 | Code: CATSCF_27 | Date accepted: 2000-11-01 |

Name: emergency telephone

Definition: a place where a telephone is available for emergency use only.

| 28 | DD Name: S100 | Code: CATSCF_28 | Date accepted: 2000-11-01 |

Name: landing/launching place for boats

Definition: a place where boats may be landed or launched.

| 29 | DD Name: S100 | Code: CATSCF_29 | Date accepted: 2000-11-01 |

Name: visitors mooring

Definition: a mooring set aside for the use of visiting vessels.

| 30 | DD Name: S100 | Code: CATSCF_30 | Date accepted: 2000-11-01 |

Name: scrubbing berth

Value   Data Dictionary (DD) Reference

             Definition: a place where vessels may berth for the purpose of careening.

31   DD Name: S100   Code: CATSCF_31   Date accepted: 2000-11-01

             Name: picnic area

             Definition: a place where people may go to eat a picnic.

32   DD Name: S100   Code: CATSCF_32   Date accepted: 2000-11-01

             Name: mechanics workshop

             Definition: a place where mechanical repairs can be undertaken to engines or other vessel
             equipment.

33   DD Name: S100   Code: CATSCF_33   Date accepted: 2000-11-01

             Name: guard and/or security service

             Definition: a place where a vessel is patrolled by a security service or stored in a secure
             lockup.

Attribute	Category of sea area

Acronym: **CATSEA**   Code: 59

Use Type: F

Value Type: E

Data Dictionary (DD) Reference:

DD Name: S100   Date accepted: 2000-11-01

Definition:

Enumerations

Value   Data Dictionary (DD) Reference

51   DD Name: S100   Code: CATSEA_51   Date accepted: 2000-11-01

            Name: canal

            Definition: an artificial water course used for navigation.

53   DD Name: S100   Code: CATSEA_53   Date accepted: 2000-11-01

            Name: river

            Definition: a relatively large natural stream of water.

Attribute	Category of shoreline construction

Acronym: **CATSLC**   Code: 60

Use Type: F

Value Type: E

Data Dictionary (DD) Reference:

DD Name: S100   Date accepted: 2000-11-01

Definition:

Enumerations

Value   Data Dictionary (DD) Reference

1   DD Name: S100   Code: CATSLC_1   Date accepted: 2000-11-01

             Name: breakwater

             Definition: a structure protecting a shore area, harbour, anchorage, or basin from waves.
             (IHO Dictionary, S-32, 5th Edition, 542)

2   DD Name: S100   Code: CATSLC_2   Date accepted: 2000-11-01

             Name: groyne (groin)

             Definition: a low artificial wall-like structure of durable material extending from the land
             to seaward for a particular purpose, such as to prevent coast erosion (adapted from IHO
             Dictionary, S-32, 5th Edition, 2525 and IHO Chart Specifications, M-4)

4   DD Name: S100   Code: CATSLC_4   Date accepted: 2000-11-01

             Name: pier (jetty)

             Definition: a long, narrow structure extending into the water to afford a berthing place for
             vessels, to serve as a promenade, etc. (IHO Dictionary, S-32, 5th Edition, 3833)

5   DD Name: S100   Code: CATSLC_5   Date accepted: 2000-11-01

             Name: promenade pier

             Definition: a pier built only for recreational purposes. (IHO Chart Specifications, M-4)

Value   Data Dictionary (DD) Reference

6   DD Name: S100   Code: CATSLC_6   Date accepted: 2000-11-01

         Name: wharf (quay)

         Definition: a structure serving as a berthing place for vessels. (IHO Dictionary, S-32, 5th
         Edition, 5985)

7   DD Name: S100   Code: CATSLC_7   Date accepted: 2000-11-01

         Name: training wall

         Definition: a wall or bank, often submerged, built to direct or confine the flow of a river or
         tidal current, or to promote a scour action. (Adapted from IHO Dictionary, S-32, 5th Edition,
         5586 and IHO Chart Specifications, M-4).

8   DD Name: S100   Code: CATSLC_8   Date accepted: 2000-11-01

         Name: rip rap

         Definition: A layer of broken rock, cobbles, boulders, or fragments of sufficient size to resist
         the erosive forces of flowing water and wave action. (Adapted from Marine Chart Manual, US
         National Oceanic and Atmospheric Administration - NOAA, 1992)

9   DD Name: S100   Code: CATSLC_9   Date accepted: 2000-11-01

         Name: revetment

         Definition: facing of stone or other material, either permanent or temporary, placed along the
         edge of a stream, river or canal to stabilize the bank and to protect it from the erosive action
         of the stream. (Adapted from IHO Dictionary, S-32, 5th Edition, 4379)

10   DD Name: S100   Code: CATSLC_10   Date accepted: 2000-11-01

         Name: sea wall

         Definition: an embankment or wall for protection against waves or tidal action along a shore
         or water front. (IHO Dictionary, S-32, 5th Edition, 4584)

11   DD Name: S100   Code: CATSLC_11   Date accepted: 2000-11-01

         Name: landing steps

         Definition: steps at the shoreline as the connection between land and water on different
         levels.

12   DD Name: S100   Code: CATSLC_12   Date accepted: 2000-11-01

         Name: ramp

Value   Data Dictionary (DD) Reference

Definition: a sloping structure that can either be used, as a landing place, at variable water levels, for small vessels, landing ships, or a ferry boat, or for hauling a cradle carrying a vessel, which may include rails. (Adapted from IHO Dictionary, S-32, 5th Edition, 4209)

13	DD Name: S100	Code: CATSLC_13	Date accepted: 2000-11-01

Name: slipway

Definition: the prepared and usually reinforced inclined surface on which keel- and bilge-blocks are laid for supporting a vessel under construction. (IHO Dictionary, S-32, 5th Edition, 4775)

14	DD Name: S100	Code: CATSLC_14	Date accepted: 2000-11-01

Name: fender

Definition: a protective structure designed to cushion the impact of a vessel and prevent damage.

15	DD Name: S100	Code: CATSLC_15	Date accepted: 2000-11-01

Name: solid face wharf

Definition: a wharf consisting of a solid wall of concrete, masonry, wood etc., such that the water cannot circulate freely under the wharf. The type of construction affects ship-handling; for example, a solid face wharf may give shelter from tidal streams, but under certain circumstances a cusion of water may build up between such a wharf and a ship attempting to berth at it, causing difficulties in ship handling. (Capt. A. Rae, pilot, Port of Halifax and Mr. R. Morash, wharf building engineer, Transport Canada)

16	DD Name: S100	Code: CATSLC_16	Date accepted: 2000-11-01

Name: open face wharf

Definition: a wharf supported on piles or other structures which allow free circulation of water under the wharf. (Capt. A. Rae, pilot, Port of Halifax and Mr. R. Morash, wharf building engineer, Transport Canada)

Attribute	Category of slope

Acronym: **CATSLO**   Code: 64

Use Type: F

Value Type: E

Data Dictionary (DD) Reference:

DD Name: S100   Date accepted: 2000-11-01

Definition:

Enumerations

Value   Data Dictionary (DD) Reference

2   DD Name: S100   Code: CATSLO_2   Date accepted: 2000-11-01

           Name: embankment

           Definition: an artificial elevation constructed from earth, stone, etc. carrying a road, railway
           or similar or serving to dam water.

3   DD Name: S100   Code: CATSLO_3   Date accepted: 2000-11-01

           Name: dune

           Definition: a mound, ridge or hill of drifted material on the sea coast or in a desert. (adapted
           from IHO Dictionary, S-32, 5th Edition, 1496)

Attribute	Category of special purpose mark

Acronym: **CATSPM**   Code: 66

Use Type: F

Value Type: L

Data Dictionary (DD) Reference:

DD Name: S100   Date accepted: 2000-11-01

Definition:

Enumerations

Value   Data Dictionary (DD) Reference

6   DD Name: S100   Code: CATSPM_6   Date accepted: 2000-11-01

             Name: cable mark

             Definition: a mark used to indicate the position of submarine cables or the point at which
             they run on to the land.

10   DD Name: S100   Code: CATSPM_10   Date accepted: 2000-11-01

             Name: recording mark

             Definition: a mark used to record data for scientific purposes.

12   DD Name: S100   Code: CATSPM_12   Date accepted: 2000-11-01

             Name: recreation zone mark

             Definition: a mark used to indicate a recreation zone.

37   DD Name: S100   Code: CATSPM_37   Date accepted: 2000-11-01

             Name: ferry crossing mark

             Definition: a mark indicating that a ferry route crosses the ship route; often used with a
             'sound ship's siren' mark.

39   DD Name: S100   Code: CATSPM_39   Date accepted: 2000-11-01

Value	Data Dictionary (DD) Reference

Name: pipeline mark

Definition: a mark used to indicate the position of submarine pipelines or the point at which they run on to the land.

41   DD Name: S100   Code: CATSPM_41   Date accepted: 2000-11-01

Name: clearing mark

Definition: a mark used to indicate a clearing line.

45   DD Name: S100   Code: CATSPM_45   Date accepted: 2000-11-01

Name: foul ground mark

Definition: a mark indicating a foul ground.

50   DD Name: S100   Code: CATSPM_50   Date accepted: 2000-11-01

Name: entry prohibited mark

Definition: a mark indicating that entry is prohibited.

54   DD Name: S100   Code: CATSPM_54   Date accepted: 2000-11-01

Name: channel separation mark

Definition: a mark indicating the point at which a channel divides separately into two channels.

55   DD Name: S100   Code: CATSPM_55   Date accepted: 2000-11-01

Name: marine farm mark

Definition: a mark indicating the existence of a fish, mussel, oyster or pearl farm/ culture.

Attribute	Category of recommended track

Acronym: **CATTRK**   Code: 54

Use Type: F

Value Type: E

Data Dictionary (DD) Reference:

DD Name: S100   Date accepted: 2000-11-01

Definition:

Enumerations

Value   Data Dictionary (DD) Reference

1   DD Name: S100   Code: CATTRK_1   Date accepted: 2000-11-01

             Name: based on a system of fixed marks

             Definition: a straight route (known as a recommended track, range or leading line), which comprises at least two structures (usually beacons or daymarks) and/or natural features, which may carry lights and/or top-marks. The structures/features are positioned so that when observed to be in line, a vessel can follow a known bearing with safety. (adapted from International Association of Lighthouse Authorities - IALA Aids to Navigation Guide, 1990)

2   DD Name: S100   Code: CATTRK_2   Date accepted: 2000-11-01

             Name: not based on a system of fixed marks

             Definition: a route (known as a recommended track or preferred route) which is not based on a series of structures or features in line.

Attribute	Category of vegetation

Acronym: **CATVEG**   Code: 68

Use Type: F

Value Type: L

Data Dictionary (DD) Reference:

DD Name: S100   Date accepted: 2000-11-01

Definition:

Enumerations

Value   Data Dictionary (DD) Reference

6   DD Name: S100   Code: CATVEG_6   Date accepted: 2000-11-01

           Name: wood in general (inc mixed wood)

           Definition: growing trees densely occupying a tract of land. (The Concise Oxford Dictionary)

13   DD Name: S100   Code: CATVEG_13   Date accepted: 2000-11-01

           Name: tree in general

           Definition: a woody perennial plant, having a self supporting main stem or trunk.

Attribute	Category of wreck

Acronym: **CATWRK**   Code: 71

Use Type: F

Value Type: E

Data Dictionary (DD) Reference:

DD Name: S100   Date accepted: 2000-11-01

Definition:

Enumerations

Value   Data Dictionary (DD) Reference

1   DD Name: S100   Code: CATWRK_1   Date accepted: 2000-11-01

            Name: non-dangerous wreck

            Definition: a wreck which is not considered to be dangerous to surface navigation.

2   DD Name: S100   Code: CATWRK_2   Date accepted: 2000-11-01

            Name: dangerous wreck

            Definition: a wreck which is considered to be dangerous to surface navigation.

Attribute	Category of zone of confidence in data

Acronym: **CATZOC**　　　　　　　　　　　　　　　　　　　　　　Code: 72

Use Type: F

Value Type: E

Data Dictionary (DD) Reference:

DD Name: S100　　　　　　　　Date accepted: 2000-11-01

Definition:

Enumerations

Value　　　Data Dictionary (DD) Reference

1　　　　　DD Name: S100　　　　　Code: CATZOC_1　　　　Date accepted: 2000-11-01

　　　　　Name:　　zone of confidence A1

　　　　　Definition:

2　　　　　DD Name: S100　　　　　Code: CATZOC_2　　　　Date accepted: 2000-11-01

　　　　　Name:　　zone of confidence A2

　　　　　Definition:

3　　　　　DD Name: S100　　　　　Code: CATZOC_3　　　　Date accepted: 2000-11-01

　　　　　Name:　　zone of confidence B

　　　　　Definition:

4　　　　　DD Name: S100　　　　　Code: CATZOC_4　　　　Date accepted: 2000-11-01

　　　　　Name:　　zone of confidence C

　　　　　Definition:

5　　　　　DD Name: S100　　　　　Code: CATZOC_5　　　　Date accepted: 2000-11-01

　　　　　Name:　　zone of confidence D

　　　　　Definition:

Value   Data Dictionary (DD) Reference

6   DD Name: S100   Code: CATZOC_6   Date accepted: 2000-11-01

             Name: zone of confidence U (data not assessed)

             Definition:

Attribute	Colour

Acronym: **COLOUR** Code: 75

Use Type: F

Value Type: L

Data Dictionary (DD) Reference:

DD Name: S100 Date accepted: 2000-11-01

Definition:

Enumerations

Value Data Dictionary (DD) Reference

1 DD Name: S100 Code: COLOUR_1 Date accepted: 2000-11-01
  Name: white
  Definition:

2 DD Name: S100 Code: COLOUR_2 Date accepted: 2000-11-01
  Name: black
  Definition:

3 DD Name: S100 Code: COLOUR_3 Date accepted: 2000-11-01
  Name: red
  Definition:

4 DD Name: S100 Code: COLOUR_4 Date accepted: 2000-11-01
  Name: green
  Definition:

5 DD Name: S100 Code: COLOUR_5 Date accepted: 2000-11-01
  Name: blue

Value	Data Dictionary (DD) Reference		
	Definition:		
6	DD Name: S100	Code: COLOUR_6	Date accepted: 2000-11-01
	Name: yellow		
	Definition:		
7	DD Name: S100	Code: COLOUR_7	Date accepted: 2000-11-01
	Name: grey		
	Definition:		
8	DD Name: S100	Code: COLOUR_8	Date accepted: 2000-11-01
	Name: brown		
	Definition:		
9	DD Name: S100	Code: COLOUR_9	Date accepted: 2000-11-01
	Name: amber		
	Definition:		
10	DD Name: S100	Code: COLOUR_10	Date accepted: 2000-11-01
	Name: violet		
	Definition:		
11	DD Name: S100	Code: COLOUR_11	Date accepted: 2000-11-01
	Name: orange		
	Definition:		
12	DD Name: S100	Code: COLOUR_12	Date accepted: 2000-11-01
	Name: magenta		
	Definition:		
13	DD Name: S100	Code: COLOUR_13	Date accepted: 2000-11-01
	Name: pink		
	Definition:		

Attribute	Colour pattern

Acronym: **COLPAT**   Code: 76

Use Type: F

Value Type: L

<u>Data Dictionary (DD) Reference:</u>

DD Name: S100   Date accepted: 2000-11-01

Definition:

<u>Enumerations</u>

Value   Data Dictionary (DD) Reference

1   DD Name: S100   Code: COLPAT_1   Date accepted: 2000-11-01

            Name: horizontal stripes

            Definition: straight bands or stripes of differing colours painted horizontally.

2   DD Name: S100   Code: COLPAT_2   Date accepted: 2000-11-01

            Name: vertical stripes

            Definition: straight bands or stripes of differing colours painted vertically.

3   DD Name: S100   Code: COLPAT_3   Date accepted: 2000-11-01

            Name: diagonal stripes

            Definition: straight bands or stripes of differing colours painted diagonally (ie not horizontally
            or vertically).

4   DD Name: S100   Code: COLPAT_4   Date accepted: 2000-11-01

            Name: squared

            Definition: often referred to as checker plate, where alternate colours are used to create
            squares similar to a chess or draught board. The pattern may be straight or diagonal.

5   DD Name: S100   Code: COLPAT_5   Date accepted: 2000-11-01

Value   Data Dictionary (DD) Reference

           Name: stripes (direction unknown)

           Definition: straight bands or stripes of differing colours painted in an unknown direction.

6   DD Name: S100   Code: COLPAT_6   Date accepted: 2000-11-01

           Name: border stripe

           Definition: a band or stripe of colour which is displayed around the outer edge of the object, which may also form a border to an inner pattern or plain colour.

Attribute	Communication channel

Acronym: **COMCHA**   Code: 77

Use Type: F

Value Type: S

Data Dictionary (DD) Reference:

DD Name: S100   Date accepted: 2000-11-01

Definition: A channel number assigned to a specific radio frequency, frequencies or frequency
                  band.

Attribute	Conspicuous, radar

Acronym: **CONRAD**   Code: 82

Use Type: F

Value Type: E

Data Dictionary (DD) Reference:

DD Name: S100   Date accepted: 2000-11-01

Definition:

Enumerations

Value   Data Dictionary (DD) Reference

3   DD Name: S100   Code: CONRAD_3   Date accepted: 2000-11-01

          Name: radar conspicuous (has radar reflector)

          Definition: an object which returns a strong radar echo, having a radar reflector.

Attribute	Conspicuous, visually

Acronym: **CONVIS** Code: 83

Use Type: F

Value Type: E

Data Dictionary (DD) Reference:

DD Name: S100 Date accepted: 2000-11-01

Definition:

Enumerations

Value   Data Dictionary (DD) Reference

1 DD Name: S100 Code: CONVIS_1 Date accepted: 2000-11-01

    Name: visually conspicuous

    Definition: term applied to an object either natural or artificial which is distinctly and notably visible from seaward. (IHO Dictionary, S-32, 5th Edition, 984)

2 DD Name: S100 Code: CONVIS_2 Date accepted: 2000-11-01

    Name: not visually conspicuous

    Definition: an object which is visible from seaward, but is not conspicuous.

Attribute	Date end

Acronym: **DATEND**   Code: 85

Use Type: F

Value Type: S

Data Dictionary (DD) Reference:

DD Name: S100   Date accepted: 2000-11-01

Definition: The latest date on which an object (e.g., a buoy) will be present.

Attribute	Date start

Acronym: **DATSTA** Code: 86

Use Type: F

Value Type: S

Data Dictionary (DD) Reference:

DD Name: S100   Date accepted: 2000-11-01

Definition: The earliest date on which an object (e.g., a buoy) will be present.

Attribute	Depth range value 1

Acronym: **DRVAL1**   Code: 87

Use Type: F

Value Type: F

Data Dictionary (DD) Reference:

DD Name: S100   Date accepted: 2000-11-01

Definition: The minimum (shoalest) value of a depth range.

Attribute	Depth range value 2

Acronym: **DRVAL2** Code: 88

Use Type: F

Value Type: F

Data Dictionary (DD) Reference:

DD Name: S100 Date accepted: 2000-11-01

Definition: The maximum (deepest) value of a depth range.

Attribute	Elevation

Acronym: **ELEVAT**

Code: 90

Use Type: F

Value Type: F

Data Dictionary (DD) Reference:

DD Name: S100   Date accepted: 2000-11-01

Definition: The altitude of the ground level of an object, measured from a specified vertical datum.

Attribute	Exhibition condition of light

Acronym: **EXCLIT**   Code: 92

Use Type: F

Value Type: E

<u>Data Dictionary (DD) Reference:</u>

DD Name: S100   Date accepted: 2000-11-01

Definition:

<u>Enumerations</u>

Value   Data Dictionary (DD) Reference

1   DD Name: S100   Code: EXCLIT_1   Date accepted: 2000-11-01

            Name: light shown without change of character

            Definition: a light shown throughout the 24 hours without change of character. IHO Chart
            pecifications, M-4

2   DD Name: S100   Code: EXCLIT_2   Date accepted: 2000-11-01

            Name: daytime light

            Definition: a light which is only exhibited by day.

3   DD Name: S100   Code: EXCLIT_3   Date accepted: 2000-11-01

            Name: fog light

            Definition: a light which is exhibited in fog or conditions of reduced visibility.

4   DD Name: S100   Code: EXCLIT_4   Date accepted: 2000-11-01

            Name: night light

            Definition: a light which is only exhibited at night.

Attribute	Function

Acronym: **FUNCTN**   Code: 94

Use Type: F

Value Type: L

<u>Data Dictionary (DD) Reference:</u>

DD Name: S100   Date accepted: 2000-11-01

Definition:

<u>Enumerations</u>

Value   Data Dictionary (DD) Reference

2   DD Name: S100   Code: FUNCTN_2   Date accepted: 2000-11-01

          Name: harbour-master's office

          Definition: the office of the local official who has charge of mooring and berthing of vessels, collecting harbour fees, etc. (adapted from IHO Dictionary, S-32, 5th Edition, 2191)

3   DD Name: S100   Code: FUNCTN_3   Date accepted: 2000-11-01

          Name: custom office

          Definition: an office which is charged with enforcing customs regulations.

4   DD Name: S100   Code: FUNCTN_4   Date accepted: 2000-11-01

          Name: health office

          Definition: the office which is charged with the administration of health laws and sanitary inspections. (adapted from The New Shorter Oxford English Dictionary, 1993)

5   DD Name: S100   Code: FUNCTN_5   Date accepted: 2000-11-01

          Name: hospital

          Definition: an institution or establishment providing medical or surgical treatment for the ill or wounded. (The New Shorter Oxford English Dictionary, 1993)

6   DD Name: S100   Code: FUNCTN_6   Date accepted: 2000-11-01

Value   Data Dictionary (DD) Reference

               Name: post office

               Definition: the public department, agency or organisation responsible primarily for the
               collection, transmission and distribution of mail. (The New Shorter Oxford English Dictionary,
               1993)

7   DD Name: S100   Code: FUNCTN_7   Date accepted: 2000-11-01

               Name: hotel

               Definition: an establishment, especially of a comfortable or luxurious kind, where paying
               visitors are provided with accommodation, meals and other services. (The New Shorter
               Oxford English Dictionary, 1993)

8   DD Name: S100   Code: FUNCTN_8   Date accepted: 2000-11-01

               Name: railway station

               Definition: a building with platforms where trains arrive, load, discharge and depart. (The
               New Shorter Oxford English Dictionary, 1993)

9   DD Name: S100   Code: FUNCTN_9   Date accepted: 2000-11-01

               Name: police station

               Definition: the office of the local police force.

10   DD Name: S100   Code: FUNCTN_10   Date accepted: 2000-11-01

               Name: water-police station

               Definition: the headquarters of a local water-police force.

11   DD Name: S100   Code: FUNCTN_11   Date accepted: 2000-11-01

               Name: pilot office

               Definition: the office or headquarters of pilots; the place where the services of a pilot may be
               obtained. (IHO Dictionary, S-32, 5th Edition, 3845)

12   DD Name: S100   Code: FUNCTN_12   Date accepted: 2000-11-01

               Name: pilot lookout

               Definition: a distinctive structure on shore from which personnel keep watch upon events at
               sea or along the coast. (IHO Dictionary, S-32, 5th Edition, 2917)

13   DD Name: S100   Code: FUNCTN_13   Date accepted: 2000-11-01

Value   Data Dictionary (DD) Reference

Name: bank office

Definition: an office for custody, deposit, loan, exchange or issue of money. (adapted from The New Shorter Oxford English Dictionary, 1993)

14   DD Name: S100   Code: FUNCTN_14   Date accepted: 2000-11-01

Name: headquarters for district control

Definition: the quarters of an executive officer (director, manager, etc.) with responsibility for an administrative area.

15   DD Name: S100   Code: FUNCTN_15   Date accepted: 2000-11-01

Name: transit shed/warehouse

Definition: a building or part of a building for storage of wares or goods. (adapted from The New Shorter Oxford English Dictionary, 1993)

16   DD Name: S100   Code: FUNCTN_16   Date accepted: 2000-11-01

Name: factory

Definition: a building or buildings with equipment for manufacturing; a workshop. (The New Shorter Oxford English Dictionary, 1993)

17   DD Name: S100   Code: FUNCTN_17   Date accepted: 2000-11-01

Name: power station

Definition: a stationary plant containing apparatus for large scale conversion of some form of energy (such as hydraulic, steam, chemical or nuclear energy) into electrical energy. (McGraw-Hill Dictionary of Scientific and Technical Terms, 3rd Edition, 1984)

18   DD Name: S100   Code: FUNCTN_18   Date accepted: 2000-11-01

Name: administrative

Definition: a building for the management of affairs. (adapted from The New Shorter Oxford English Dictionary, 1993)

19   DD Name: S100   Code: FUNCTN_19   Date accepted: 2000-11-01

Name: educational facility

Definition: a building concerned with education (eg. school, college, university, etc.)

20   DD Name: S100   Code: FUNCTN_20   Date accepted: 2000-11-01

Value   Data Dictionary (DD) Reference

Name: church

Definition: a building for public Christian worship. (The New Shorter Oxford English Dictionary, 1993)

21   DD Name: S100   Code: FUNCTN_21   Date accepted: 2000-11-01

Name: chapel

Definition: a place for Christian worship other than a parish, cathedral or church, especially one attached to a private house or institution. (The New Shorter Oxford English Dictionary, 1993)

22   DD Name: S100   Code: FUNCTN_22   Date accepted: 2000-11-01

Name: temple

Definition: a building for public Jewish worship. (adapted from The New Shorter Oxford English Dictionary, 1993)

23   DD Name: S100   Code: FUNCTN_23   Date accepted: 2000-11-01

Name: pagoda

Definition: a Hindu or Buddhist temple or sacred building. (The New Shorter Oxford English Dictionary, 1993)

24   DD Name: S100   Code: FUNCTN_24   Date accepted: 2000-11-01

Name: shinto shrine

Definition: a building for public Shinto worship. (adapted from The New Shorter Oxford English Dictionary, 1993)

25   DD Name: S100   Code: FUNCTN_25   Date accepted: 2000-11-01

Name: buddhist temple

Definition: see pagoda.

26   DD Name: S100   Code: FUNCTN_26   Date accepted: 2000-11-01

Name: mosque

Definition: a Muslim place of worship. (The New Shorter Oxford English Dictionary, 1993)

27   DD Name: S100   Code: FUNCTN_27   Date accepted: 2000-11-01

Name: marabout

Value   Data Dictionary (DD) Reference

Definition: a shrine marking the burial place of a Muslim holy man. (The New Shorter Oxford English Dictionary, 1993)

| 28 | DD Name: S100 | Code: FUNCTN_28 | Date accepted: 2000-11-01 |

Name: lookout

Definition: keeping a watch upon events at sea or along the coast. (adapted from IHO Dictionary, S-32,5th Edition,2917)

| 29 | DD Name: S100 | Code: FUNCTN_29 | Date accepted: 2000-11-01 |

Name: communication

Definition: transmitting and/or receiving electronic communication signals. (adapted from Digital Geographic Information Standard - DIGEST)

| 30 | DD Name: S100 | Code: FUNCTN_30 | Date accepted: 2000-11-01 |

Name: television

Definition: broadcast of television signals.

| 31 | DD Name: S100 | Code: FUNCTN_31 | Date accepted: 2000-11-01 |

Name: radio

Definition: broadcast of radio signals.

| 32 | DD Name: S100 | Code: FUNCTN_32 | Date accepted: 2000-11-01 |

Name: radar

Definition: a method, system or technique of using beamed, reflected, and timed radio waves for detecting, locating, or tracking objects, and for measuring altitudes. (IHO Dictionary, S-32, 5th Edition,4158)

| 33 | DD Name: S100 | Code: FUNCTN_33 | Date accepted: 2000-11-01 |

Name: light support

Definition: supporting a light

| 34 | DD Name: S100 | Code: FUNCTN_34 | Date accepted: 2000-11-01 |

Name: microwave

Definition: broadcasting and receiving signals using microwaves.

Value   Data Dictionary (DD) Reference

35   DD Name: S100   Code: FUNCTN_35   Date accepted: 2000-11-01

Name: cooling

Definition: dissipating heat.

36   DD Name: S100   Code: FUNCTN_36   Date accepted: 2000-11-01

Name: observation

Definition: a place from which the surroundings can be observed but at which a watch is not habitually maintained. (adapted from IHO Dictionary, S-32, 5th Edition,2917)

37   DD Name: S100   Code: FUNCTN_37   Date accepted: 2000-11-01

Name: time ball

Definition: a visual time signal in form of a ball

38   DD Name: S100   Code: FUNCTN_38   Date accepted: 2000-11-01

Name: clock

Definition: visual time signal. (adapted from S-32, 5th Edition, 5536)

39   DD Name: S100   Code: FUNCTN_39   Date accepted: 2000-11-01

Name: control

Definition: used to control the flow of air, rail, or marine traffic. (Digital Geographic Information Standard - DIGEST)

40   DD Name: S100   Code: FUNCTN_40   Date accepted: 2000-11-01

Name: airship mooring

Definition: a facility to secure an airship. (adapted from Digital Geographic Information Standard - DIGEST)

41   DD Name: S100   Code: FUNCTN_41   Date accepted: 2000-11-01

Name: stadium

Definition: a large usually unroofed building with tiers of seats for spectators

42   DD Name: S100   Code: FUNCTN_42   Date accepted: 2000-11-01

Name: bus station

Definition: a location at which buses arrive and from which they depart.

Attribute	Height

Acronym: **HEIGHT**   Code: 95

Use Type: F

Value Type: F

Data Dictionary (DD) Reference:

DD Name: S100   Date accepted: 2000-11-01

Definition: The value of the vertical distance to the highest point of the object, measured from a
                     specified vertical datum.

Attribute	Horizontal clearance

Acronym: **HORCLR**   Code: 98

Use Type: F

Value Type: F

Data Dictionary (DD) Reference:

DD Name: S100   Date accepted: 2000-11-01

Definition: The width of an object, such as a canal or a tunnel, which is available for safe
                   navigation. This may, or may not, be the same as the total physical width of the object.

Attribute	Horizontal length

Acronym: **HORLEN**

Code: 99

Use Type: F

Value Type: F

Data Dictionary (DD) Reference:

DD Name: S100

Date accepted: 2000-11-01

Definition: A measurement of the longer of two linear axis. (Digital Geographic Information Working Group -DGIWG, Oct.87)

Attribute	Horizontal width

Acronym: **HORWID**   Code: 100

Use Type: F

Value Type: F

Data Dictionary (DD) Reference:

DD Name: S100   Date accepted: 2000-11-01

Definition: A measurement of the shorter of two linear axis. (Digital Geographic Information
                   Working Group -DGIWG, Oct.87)

Attribute	Information

Acronym: **INFORM**   Code: 102

Use Type: F

Value Type: T

<u>Data Dictionary (DD) Reference:</u>

DD Name: S100   Date accepted: 2000-11-01

Definition: Textual information about the object.

Attribute	Jurisdiction

Acronym: **JRSDTN**   Code: 103

Use Type: F

Value Type: E

Data Dictionary (DD) Reference:

DD Name: S100   Date accepted: 2000-11-01

Definition: .

Enumerations

Value   Data Dictionary (DD) Reference

1   DD Name: S100   Code: JRSDTN_1   Date accepted: 2000-11-01

        Name: international

        Definition: involving more than one country; covering more than one national area.

2   DD Name: S100   Code: JRSDTN_2   Date accepted: 2000-11-01

        Name: national

        Definition: an area administered or controlled by a single nation.

3   DD Name: S100   Code: JRSDTN_3   Date accepted: 2000-11-01

        Name: national sub-division

        Definition: an area smaller than the nation in which it lies.

Attribute	Light characteristic

Acronym: **LITCHR**   Code: 107

Use Type: F

Value Type: E

Data Dictionary (DD) Reference:

DD Name: S100   Date accepted: 2000-11-01

Definition:

Enumerations

Value   Data Dictionary (DD) Reference

1   DD Name: S100   Code: LITCHR_1   Date accepted: 2000-11-01

             Name: fixed

             Definition: a signal light that shows continuously, in any given direction, with constant
             luminous intensity and colour. (IHO Dictionary, S-32, 5th Edition, 2780)

2   DD Name: S100   Code: LITCHR_2   Date accepted: 2000-11-01

             Name: flashing

             Definition: a rhythmic light in which the total duration of light in a period is clearly shorter
             than the total duration of darkness and all the appearances of light are of equal duration. (IHO
             Dictionary, S-32, 5th Edition, 2783)

3   DD Name: S100   Code: LITCHR_3   Date accepted: 2000-11-01

             Name: long-flashing

             Definition: a flashing light in which a single flash of not less than two seconds duration is
             regularly repeated. (IHO Dictionary, S-32, 5th Edition, 2796)

4   DD Name: S100   Code: LITCHR_4   Date accepted: 2000-11-01

             Name: quick-flashing

             Definition: a light exhibiting without interruption very rapid regular alternations of light and
             darkness. (IHO Dictionary, S-32, 5th Edition, 2803)

Value   Data Dictionary (DD) Reference

7   DD Name: S100   Code: LITCHR_7   Date accepted: 2000-11-01

             Name: isophased

             Definition: a light with all durations of light and darkness equal. (IHO Dictionary, S-32, 5th
             Edition, 2779)

9   DD Name: S100   Code: LITCHR_9   Date accepted: 2000-11-01

             Name: interrupted quick-flashing

             Definition: a quick light in which the sequence of flashes is interrupted by regularly repeated
             eclipses of constant and long duration. (IHO Dictionary, S-32, 5th Edition, 2790)

Attribute	Multiplicity of lights

Acronym: **MLTYLT**   Code: 110

Use Type: F

Value Type: I

Data Dictionary (DD) Reference:

DD Name: S100   Date accepted: 2000-11-01

Definition: The number of lights of identical character that exist as a co-located group.

Attribute	Nature of construction

Acronym: **NATCON**   Code: 112

Use Type: F

Value Type: L

<u>Data Dictionary (DD) Reference:</u>

DD Name: S100   Date accepted: 2000-11-01

Definition:

<u>Enumerations</u>

Value   Data Dictionary (DD) Reference

1   DD Name: S100   Code: NATCON_1   Date accepted: 2000-11-01

             Name: masonry

             Definition: constructed of brick or stone.

2   DD Name: S100   Code: NATCON_2   Date accepted: 2000-11-01

             Name: concreted

             Definition: constructed of concrete, a material made of sand and gravel that is united by
             cement into a hardened mass used for roads, foundations, etc. (adapted from the Illustrated
             Contemporary Dictionary, Encyclopaedic Edition, 1978)

3   DD Name: S100   Code: NATCON_3   Date accepted: 2000-11-01

             Name: loose boulders

             Definition: constructed from large stones or blocks of concrete, often placed loosely for
             protection against waves or water turbulence.

4   DD Name: S100   Code: NATCON_4   Date accepted: 2000-11-01

             Name: hard surfaced

             Definition: constructed with a surface of hard material, usually a term applied to roads
             surfaced with asphalt or concrete.

Value   Data Dictionary (DD) Reference

5   DD Name: S100   Code: NATCON_5   Date accepted: 2000-11-01

             Name: unsurfaced

             Definition: constructed with no extra protection, usually a term applied to roads not surfaced
             with a hard material.

6   DD Name: S100   Code: NATCON_6   Date accepted: 2000-11-01

             Name: wooden

             Definition: constructed from wood.

7   DD Name: S100   Code: NATCON_7   Date accepted: 2000-11-01

             Name: metal

             Definition: constructed from metal.

8   DD Name: S100   Code: NATCON_8   Date accepted: 2000-11-01

             Name: glass reinforced plastic (GRP)

             Definition: constructed from a plastic material strengthened with fibres of glass.

9   DD Name: S100   Code: NATCON_9   Date accepted: 2000-11-01

             Name: painted

             Definition: the application of paint to some other construction or natural feature.

Attribute	Nationality

Acronym: **NATION**   Code: 111

Use Type: F

Value Type: S

Data Dictionary (DD) Reference:

DD Name: S100   Date accepted: 2000-11-01

Definition: The nationality of the specific objec

Attribute	Information in national language

Acronym: **NINFOM**   Code: 300

Use Type: N

Value Type: T

Data Dictionary (DD) Reference:

DD Name: S100   Date accepted: 2000-11-01

Definition: Textual information in national language characters

Attribute	Object name in national language

Acronym: **NOBJNM**   Code: 301

Use Type: N

Value Type: T

Data Dictionary (DD) Reference:

DD Name: S100   Date accepted: 2000-11-01

Definition: Name of object in national language characters

Attribute	Textual description in national language

Acronym: **NTXTDS**   Code: 304

Use Type: N

Value Type: T

Data Dictionary (DD) Reference:

DD Name: S100   Date accepted: 2000-11-01

Definition: The file name of an external text file that contains the text in a national language.

Attribute	Object name

Acronym: **OBJNAM**   Code: 116

Use Type: F

Value Type: T

Data Dictionary (DD) Reference:

DD Name: S100   Date accepted: 2000-11-01

Definition: The individual name of an object.

Attribute	Orientation

Acronym: **ORIENT**   Code: 117

Use Type: F

Value Type: F

Data Dictionary (DD) Reference:

DD Name: S100   Date accepted: 2000-11-01

Definition: The angular distance measured from true north to the major axis of the object. (Digital
                  Geographic Information Working Group -DGIWG, Oct.87)

Attribute	Periodic date end

Acronym: **PEREND**   Code: 118

Use Type: F

Value Type: S

Data Dictionary (DD) Reference:

DD Name: S100   Date accepted: 2000-11-01

Definition: The end of the active period for a seasonal object (e.g. a buoy).

Attribute	Periodic date start

Acronym: **PERSTA**   Code: 119

Use Type: F

Value Type: S

Data Dictionary (DD) Reference:

DD Name: S100   Date accepted: 2000-11-01

Definition: The start of the active period for a seasonal object (e.g. a buoy).

Attribute	Pictorial representation

Acronym: **PICREP**   Code: 120

Use Type: F

Value Type: T

Data Dictionary (DD) Reference:

DD Name: S100   Date accepted: 2000-11-01

Definition: Indicates whether a pictorial representation of the object is available.

Attribute	Pilot district

Acronym: **PILDST**   Code: 121

Use Type: F

Value Type: T

Data Dictionary (DD) Reference:

DD Name: S100   Date accepted: 2000-11-01

Definition: The area within which a particular pilotage service operates.

Attribute	Positional Accuracy

Acronym: **POSACC**   Code: 401

Use Type: F,S

Value Type: F

Data Dictionary (DD) Reference:

DD Name: S100   Date accepted: 2000-11-01

Definition: The best estimate of the accuracy of a position. The expected input is the maximum
                   of the two-dimensional error. The error is assumed to be positive and negative. The
                   plus/minus character shall not be encoded.

Attribute	Product

Acronym: **PRODCT**   Code: 123

Use Type: F

Value Type: L

<u>Data Dictionary (DD) Reference:</u>

DD Name: S100   Date accepted: 2000-11-01

Definition:

<u>Enumerations</u>

Value   Data Dictionary (DD) Reference

1   DD Name: S100   Code: PRODCT_1   Date accepted: 2000-11-01

            Name: oil

            Definition: a thick, slippery liquid that will not dissolve in water, usually petroleum based in
            the context of storage tanks. (adapted from the Oxford Minidictionary, Third Edition)

2   DD Name: S100   Code: PRODCT_2   Date accepted: 2000-11-01

            Name: gas

            Definition: a substance with particles that can move freely, usually a fuel substance in the
            context of storage tanks. (adapted from the Oxford Minidictionary, Third Edition)

3   DD Name: S100   Code: PRODCT_3   Date accepted: 2000-11-01

            Name: water

            Definition: a colourless, odourless, tasteless liquid that is a compound of hydrogen and
            oxygen. (adapted from the Oxford Minidictionary, Third Edition)

4   DD Name: S100   Code: PRODCT_4   Date accepted: 2000-11-01

            Name: stone

            Definition: a general term for rock fragments. (IHO Dictionary, S-32, 5th Edition, 5059)

5   DD Name: S100   Code: PRODCT_5   Date accepted: 2000-11-01

Value	Data Dictionary (DD) Reference

Name: coal

Definition: a hard black mineral that is burned as fuel. (adapted from the Oxford Minidictionary, Third Edition)

6	DD Name: S100	Code: PRODCT_6	Date accepted: 2000-11-01

Name: ore

Definition: a solid rock or mineral from which metal is obtained. (adapted form the Oxford Minidictionary, Third Edition)

7	DD Name: S100	Code: PRODCT_7	Date accepted: 2000-11-01

Name: chemicals

Definition: any substance obtained by or used in a chemical process. (adapted from the Oxford Minidictionary, Third Edition)

8	DD Name: S100	Code: PRODCT_8	Date accepted: 2000-11-01

Name: drinking water

Definition: water that is suitable for human consumption. (adapted from the Oxford Minidictionary, Third Edition)

14	DD Name: S100	Code: PRODCT_14	Date accepted: 2000-11-01

Name: sand

Definition: tiny grains of crushed or worn rock. (adapted from the Oxford Minidictionary, Third Edition)

15	DD Name: S100	Code: PRODCT_15	Date accepted: 2000-11-01

Name: timber

Definition: wood prepared for use in building or carpentry. (adapted from the Oxford Minidictionary, Third Edition)

17	DD Name: S100	Code: PRODCT_17	Date accepted: 2000-11-01

Name: scrap metal

Definition: discarded metal suitable for being reprocessed. (adapted from the Oxford Minidictionary, Third Edition)

21	DD Name: S100	Code: PRODCT_21	Date accepted: 2000-11-01

Value   Data Dictionary (DD) Reference

Name: cement

Definition: a substance made of powdered lime and clay, mixed with water. (adapted from the Websters New World Dictionary)

22   DD Name: S100   Code: PRODCT_22   Date accepted: 2000-11-01

Name: grain

Definition: a small hard seed, especially that of any cereal plant such as wheat, rice, corn, rye etc. (adapted from the Websters New World Dictionary)

Attribute	Quality of position

Acronym: **QUAPOS**   Code: 402

Use Type: F,S

Value Type: E

Data Dictionary (DD) Reference:

DD Name: S100   Date accepted: 2000-11-01

Definition:

Enumerations

Value   Data Dictionary (DD) Reference

4   DD Name: S100   Code: QUAPOS_4   Date accepted: 2000-11-01

           Name: approximate

           Definition: a position that is considered to be less than third-order accuracy, but is generally
           considered to be within 30.5 metres of its correct geographic location. Also may apply to an
           object whose position does not remain fixed. (adapted from IHO Dictionary, S-32, 213, 3967,
           and IHO Specifications, M-4, 424.1)

10   DD Name: S100   Code: QUAPOS_10   Date accepted: 2000-11-01

           Name: precisely known

           Definition: a position that is of a known value, such as the position of an anchor berth or
           other defined object.

Attribute	Quality of sounding measurement

Acronym: **QUASOU**   Code: 125

Use Type: F

Value Type: L

Data Dictionary (DD) Reference:

DD Name: S100   Date accepted: 2000-11-01

Definition:

Enumerations

Value	Data Dictionary (DD) Reference

1   DD Name: S100   Code: QUASOU_1   Date accepted: 2000-11-01

      Name: depth known

      Definition: the depth from chart datum to the bottom is a known value.

2   DD Name: S100   Code: QUASOU_2   Date accepted: 2000-11-01

      Name: depth unknown

      Definition: the depth from chart datum to the bottom is unknown.

8   DD Name: S100   Code: QUASOU_8   Date accepted: 2000-11-01

      Name: value reported (not surveyed)

      Definition: depth value obtained from a report, but not fully surveyed.

10   DD Name: S100   Code: QUASOU_10   Date accepted: 2000-11-01

      Name: maintained depth

      Definition: the depth at which a channel is kept by human influence, usually by dredging. (IHO Dictionary, S-32, 5th Edition, 3057)

11   DD Name: S100   Code: QUASOU_11   Date accepted: 2000-11-01

      Name: not regularly maintained

Value   Data Dictionary (DD) Reference

             Definition: depths may be altered by human influence, but will not be routinely maintained.

Attribute	Radar wave length

Acronym: **RADWAL**   Code: 126

Use Type: F

Value Type: S

Data Dictionary (DD) Reference:

DD Name: S100   Date accepted: 2000-11-01

Definition: The distance between two successive peaks (or other points of identical phase) on an electromagnetic wave in the radar band of the electromagnetic spectrum.

Attribute	Reference year for magnetic variation

Acronym: **RESTRN**   Code: 131

Use Type: F

Value Type: L

Data Dictionary (DD) Reference:

DD Name: S100   Date accepted: 2000-11-01

Definition: The official legal statute of each kind of restricted area.

Enumerations

Value   Data Dictionary (DD) Reference

1   DD Name: S100   Code: RESTRN_1   Date accepted: 2000-11-01

             Name: anchoring prohibited

             Definition: an area within which anchoring is not permitted.

Attribute	Scale minimum

Acronym: **SCAMIN**   Code: 133

Use Type: F

Value Type: I

Data Dictionary (DD) Reference:

DD Name: S100   Date accepted: 2000-11-01

Definition: The minimum scale at which the object may be used e.g. for ECDIS presentation.

Attribute	Signal frequency

Acronym: **SIGFRQ**   Code: 139

Use Type: F

Value Type: I

<u>Data Dictionary (DD) Reference:</u>

DD Name: S100   Date accepted: 2000-11-01

Definition: The frequency of a signal.

Attribute	Signal frequency

Attribute	Signal generation

Acronym: **SIGGEN**   Code: 140

Use Type: F

Value Type: E

Data Dictionary (DD) Reference:

DD Name: S100   Date accepted: 2000-11-01

Definition:

Enumerations

Value   Data Dictionary (DD) Reference

1   DD Name: S100   Code: SIGGEN_1   Date accepted: 2000-11-01

          Name: automatically

          Definition: signal generation is initiated by a self regulating mechanism such as a timer or light sensor.

2   DD Name: S100   Code: SIGGEN_2   Date accepted: 2000-11-01

          Name: by wave action

          Definition: the signal is generated by the motion of the sea surface such as a bell in a buoy.

Attribute	Signal group

Acronym: **SIGGRP**   Code: 141

Use Type: F

Value Type: S

Data Dictionary (DD) Reference:

DD Name: S100   Date accepted: 2000-11-01

Definition: The number of signals, the combination of signals or the morse character(s) within one period of full sequence.

Attribute	Signal period

Acronym: **SIGPER**   Code: 142

Use Type: F

Value Type: F

Data Dictionary (DD) Reference:

DD Name: S100   Date accepted: 2000-11-01

Definition: The time occupied by an entire cycle of intervals of light and eclipse.

Attribute	Signal sequence

Acronym: **SIGSEQ**   Code: 143

Use Type: F

Value Type: S

Data Dictionary (DD) Reference:

DD Name: S100   Date accepted: 2000-11-01

Definition: The sequence of times occupied by intervals of light and eclipse for all 'light
                    characteristics' except for occulting where the sequence of times is occupied by
                    intervals of eclipse and light.

Attribute	Signal sequence

Attribute	Source date

Acronym: **SORDAT**   Code: 147

Use Type: F

Value Type: S

Data Dictionary (DD) Reference:

DD Name: S100   Date accepted: 2000-11-01

Definition: The production date of the source, e.g. the date of measurement.

Attribute	Source indication

Acronym: **SORIND**   Code: 148

Use Type: F

Value Type: S

Data Dictionary (DD) Reference:

DD Name: S100   Date accepted: 2000-11-01

Definition: Information about the source of the object.

Attribute	Sounding accuracy

Acronym: **SOUACC**   Code: 144

Use Type: F

Value Type: F

Data Dictionary (DD) Reference:

DD Name: S100   Date accepted: 2000-11-01

Definition: The best estimate of the accuracy of the sounding data. The maximum of the
                    one-dimensional error. The error is assumed to be positive and negative. The
                    plus/minus character shall not be encoded.

Attribute	Status

Acronym: **STATUS**   Code: 149

Use Type: F

Value Type: L

Data Dictionary (DD) Reference:

DD Name: S100   Date accepted: 2000-11-01

Definition:

Enumerations

Value   Data Dictionary (DD) Reference

2   DD Name: S100   Code: STATUS_2   Date accepted: 2000-11-01

           Name: occasional

           Definition: acting on special occasions; happening irregularly. (The Concise Oxford
           Dictionary, 7th Edition)

3   DD Name: S100   Code: STATUS_3   Date accepted: 2000-11-01

           Name: recommended

           Definition: presented as worthy of confidence, acceptance, use, etc. (The Macquarie
           Dictionary, 1988)

4   DD Name: S100   Code: STATUS_4   Date accepted: 2000-11-01

           Name: not in use

           Definition: no longer used for the purpose intended; disused.

8   DD Name: S100   Code: STATUS_8   Date accepted: 2000-11-01

           Name: private

           Definition: not in public ownership or operation.

9   DD Name: S100   Code: STATUS_9   Date accepted: 2000-11-01

Value   Data Dictionary (DD) Reference

Name: mandatory

Definition: compulsory; enforced. (The Concise Oxford Dictionary, 7th Edition)

12   DD Name: S100   Code: STATUS_12   Date accepted: 2000-11-01

Name: illuminated

Definition: lit by floodlights, strip lights, etc.

14   DD Name: S100   Code: STATUS_14   Date accepted: 2000-11-01

Name: public

Definition: belonging to, available to, used or shared by, the community as a whole and not restricted to private use. (adapted from The New Shorter Oxford English Dictionary, 1993)

16   DD Name: S100   Code: STATUS_16   Date accepted: 2000-11-01

Name: watched

Definition: looked at or observed over a period of time especially so as to be aware of any movement or change. (adapted from The New Shorter Oxford English Dictionary, 1993)

17   DD Name: S100   Code: STATUS_17   Date accepted: 2000-11-01

Name: un-watched

Definition: usually automatic in operation, without any permanently-stationed personnel to superintend it. (adapted from IHO Dictionary, S-32, 5th Edition, 2814)

Attribute	Survey authority

Acronym: **SURATH**   Code: 150

Use Type: F

Value Type: T

<u>Data Dictionary (DD) Reference:</u>

DD Name: S100   Date accepted: 2000-11-01

Definition: The authority which was responsible for the survey.

Attribute	Survey date - end

Acronym: **SUREND**   Code: 151

Use Type: F

Value Type: S

Data Dictionary (DD) Reference:

DD Name: S100   Date accepted: 2000-11-01

Definition: The end date of the survey.

Attribute	Survey date - start

Acronym: **SURSTA**   Code: 152

Use Type: F

Value Type: S

Data Dictionary (DD) Reference:

DD Name: S100   Date accepted: 2000-11-01

Definition: The start date of the survey.

Attribute	Survey type

Acronym: **SURTYP**   Code: 153

Use Type: F

Value Type: L

Data Dictionary (DD) Reference:

DD Name: S100   Date accepted: 2000-11-01

Definition:

Enumerations

Value   Data Dictionary (DD) Reference

2   DD Name: S100   Code: SURTYP_2   Date accepted: 2000-11-01

            Name: controlled survey

            Definition: a thorough survey usually conducted with reference to guidelines.

Attribute	Technique of sounding measurement

Acronym: **TECSOU**   Code: 156

Use Type: F

Value Type: L

Data Dictionary (DD) Reference:

DD Name: S100   Date accepted: 2000-11-01

Definition:

Enumerations

Value   Data Dictionary (DD) Reference

1   DD Name: S100   Code: TECSOU_1   Date accepted: 2000-11-01

             Name: found by echo-sounder

             Definition: the depth was determined by using an instrument that determines depth of water
             by measuring the time interval between emission of a sonic or ultrasonic signal and return of
             its echo from the bottom. (adapted from IHO Dictionary, S-32, 1547)

2   DD Name: S100   Code: TECSOU_2   Date accepted: 2000-11-01

             Name: found by side-scan-sonar

             Definition: the depth was computed from a record produced by active sonar in which fixed
             acoustic beams are directed into the water perpendicularly to the direction of travel to scan
             the bottom and generate a record of the bottom configuration. (adapted from IHO Dictionary,
             S-32, 4710)

3   DD Name: S100   Code: TECSOU_3   Date accepted: 2000-11-01

             Name: found by multi-beam

             Definition: the depth was determined by using a wide swath echo sounder that uses multiple
             beams to measure depths directly below and transverse to the ship's track. (adapted from
             IHO Dictionary, S-32, 3339)

4   DD Name: S100   Code: TECSOU_4   Date accepted: 2000-11-01

             Name: found by diver

Value   Data Dictionary (DD) Reference

Definition: the depth was determined by a person skilled in the practice of diving. (adapted from IHO Dictionary, S-32, 1422)

5   DD Name: S100   Code: TECSOU_5   Date accepted: 2000-11-01

Name: found by lead-line

Definition: the depth was determined by using a line, graduated with attached marks and fastened to a sounding lead. (adapted from IHO Dictionary, S-32, 2698)

6   DD Name: S100   Code: TECSOU_6   Date accepted: 2000-11-01

Name: swept by wire-drag

Definition: the given area was determined to be free from navigational dangers to a certain depth by towing a buoyed wire at the desired depth by two launches, or a least depth was identified using the same technique. (adapted from IHO Dictionary, S-32, 5248, 6013)

7   DD Name: S100   Code: TECSOU_7   Date accepted: 2000-11-01

Name: found by laser

Definition: the depth was determined by using an instrument that measures distance by emitting timed pulses of laser light and measuring the time between emission and reception of the reflected pulses. (adapted from IHO Dictionary, S-32, 2763)

8   DD Name: S100   Code: TECSOU_8   Date accepted: 2000-11-01

Name: swept by vertical acoustic system

Definition: the given area has been swept using a system comprised of multiple echo sounder transducers attached to booms deployed from the survey vessel.

9   DD Name: S100   Code: TECSOU_9   Date accepted: 2000-11-01

Name: found by electromagnetic sensor

Definition: the depth was determined by using an instrument that compares electromagnetic signals. (adapted from IHO Dictionary, S-32, 1571)

10   DD Name: S100   Code: TECSOU_10   Date accepted: 2000-11-01

Name: photogrammetry

Definition: the depth was determined by applying mathematical techniques to photographs. (adapted from IHO Dictionary, S-32, 3791)

11   DD Name: S100   Code: TECSOU_11   Date accepted: 2000-11-01

Value   Data Dictionary (DD) Reference

            Name: satellite imagery

            Definition: the depth was determined by using instruments placed aboard an artificial satellite. (adapted from IHO Dictionary, S-32, 4509)

12   DD Name: S100   Code: TECSOU_12   Date accepted: 2000-11-01

            Name: found by levelling

            Definition: the depth was determined by using levelling techniques to find the elevation of the point relative to a datum. (adapted from IHO Dictionary, S-32, 2741)

13   DD Name: S100   Code: TECSOU_13   Date accepted: 2000-11-01

            Name: swept by side-scan-sonar

            Definition: the given area was determined to be free from navigational dangers to a certain depth by towing a side-scan-sonar. (adapted from IHO Dictionary, S-32, 5248, 4710) [415.2]

14   DD Name: S100   Code: TECSOU_14   Date accepted: 2000-11-01

            Name: computer generated

            Definition: the sounding was determined from a bottom model constructed using a computer.

Attribute	Topmark/daymark shape

Acronym: **TOPSHP**

Code: 171

Use Type: F

Value Type: E

Data Dictionary (DD) Reference:

DD Name: S100   Date accepted: 2000-11-01

Definition:

Enumerations

Value   Data Dictionary (DD) Reference

1   DD Name: S100   Code: TOPSHP_1   Date accepted: 2000-11-01

Name: cone, point up

Definition: is where the vertex points up.

2   DD Name: S100   Code: TOPSHP_2   Date accepted: 2000-11-01

Name: cone, point down

Definition: is where the vertex points down.

3   DD Name: S100   Code: TOPSHP_3   Date accepted: 2000-11-01

Name: sphere

Definition: a body the surface of which is at all points equidistant from the centre. (The New Shorter Oxford English Dictionary. 1993. vol 2). Spheres are commonly used as International Association of Lighthouse Authorities - IALA topmarks (safe water).

4   DD Name: S100   Code: TOPSHP_4   Date accepted: 2000-11-01

Name: 2 spheres

Definition: two black spheres are commonly used as an International Association of Lighthouse Authorities - IALA topmark (isolated danger).

5   DD Name: S100   Code: TOPSHP_5   Date accepted: 2000-11-01

Value   Data Dictionary (DD) Reference

Name: cylinder (can)

Definition: a solid geometrical figure generated by straight lines fixed in direction and describing with one of point a closed curve, especially a circle (in which case the figure is circular cylinder, it's ends being parallel circles). (The New Shorter Oxford English Dictionary. 1993. vol 2). Cylinders are commonly used as International Association of Lighthouse Authorities - IALA topmarks (lateral).

6   DD Name: S100   Code: TOPSHP_6   Date accepted: 2000-11-01

Name: board

Definition: usually of rectangular shape, made from timber or metal and used to provide a contrast with the natural background of a daymark. The actual daymark is often painted on to this board.

7   DD Name: S100   Code: TOPSHP_7   Date accepted: 2000-11-01

Name: x-shape (St. Andrew's cross)

Definition: having a shape or a cross-section like the capital letter X. (The New Shorter Oxford English Dictionary. 1993. vol 2). An x-shape as an International Association of Lighthouse Authorities - IALA topmark should be 3 dimensional in shape. It is made of at least three crossed bars.

8   DD Name: S100   Code: TOPSHP_8   Date accepted: 2000-11-01

Name: upright cross (St George's cross)

Definition: a cross with one vertical member and one horizontal member, i.e. similar in shape to the character '+'.

9   DD Name: S100   Code: TOPSHP_9   Date accepted: 2000-11-01

Name: cube, point up

Definition: a cube standing on one of its vertexes.

10   DD Name: S100   Code: TOPSHP_10   Date accepted: 2000-11-01

Name: 2 cones, point to point

Definition: 2 cones, one above the other, with their vertices together in the centre.

11   DD Name: S100   Code: TOPSHP_11   Date accepted: 2000-11-01

Name: 2 cones, base to base

Value   Data Dictionary (DD) Reference

Definition: 2 cones, one above the other, with their bases together in the centre and their vertices pointing up and down.

12   DD Name: S100   Code: TOPSHP_12   Date accepted: 2000-11-01

Name: rhombus (diamond)

Definition: a plane figure having four equal sides and equal opposite angles (two acute and two obtuse); an oblique equilateral parallelogram. (The New Shorter Oxford English Dictionary. 1993. vol 2)

13   DD Name: S100   Code: TOPSHP_13   Date accepted: 2000-11-01

Name: 2 cones (points upward)

Definition: 2 cones, one above the other, with their their vertices pointing up

14   DD Name: S100   Code: TOPSHP_14   Date accepted: 2000-11-01

Name: 2 cones (points downward)

Definition: 2 cones, one above the other, with their their vertices pointing down

15   DD Name: S100   Code: TOPSHP_15   Date accepted: 2000-11-01

Name: besom, point up (broom or perch)

Definition: a bundle of rods or twigs. (The New Shorter Oxford English Dictionary. 1993. vol 1)

16   DD Name: S100   Code: TOPSHP_16   Date accepted: 2000-11-01

Name: besom, point down (broom or perch)

Definition: a bundle of rods or twigs. (The New Shorter Oxford English Dictionary. 1993. vol 1)

17   DD Name: S100   Code: TOPSHP_17   Date accepted: 2000-11-01

Name: flag

Definition: a flag mounted on a short pole.

18   DD Name: S100   Code: TOPSHP_18   Date accepted: 2000-11-01

Name: sphere over rhombus

Definition: A sphere located above a rhombus.

Value   Data Dictionary (DD) Reference

19   DD Name: S100   Code: TOPSHP_19   Date accepted: 2000-11-01

          Name: square

          Definition: a plane figure with four right angles and four equal straight sides (The New
          Shorter Oxford English Dictionary. 1993. vol 2)

20   DD Name: S100   Code: TOPSHP_20   Date accepted: 2000-11-01

          Name: rectangle, horizontal

          Definition: a plane figure with four right angles and four straight sides, opposite sides being
          parallel and equal in length where the two longer opposite sides are standing horizontally
          (The New Shorter Oxford English Dictionary. 1993. vol 2).

21   DD Name: S100   Code: TOPSHP_21   Date accepted: 2000-11-01

          Name: rectangle, vertical

          Definition: a plane figure with four right angles and four straight sides, opposite sides being
          parallel and equal in length where the two longer opposite sides are standing vertically (The
          New Shorter Oxford English Dictionary. 1993. vol 2).

22   DD Name: S100   Code: TOPSHP_22   Date accepted: 2000-11-01

          Name: trapezium, up

          Definition: a quadrilateral having one pair of opposite sides parallel which stands on its
          longer parallel side. (The New Shorter Oxford English Dictionary. 1993. vol 2).

23   DD Name: S100   Code: TOPSHP_23   Date accepted: 2000-11-01

          Name: trapezium, down

          Definition: a quadrilateral having one pair of opposite sides parallel which stands on its
          shorter parallel side. (The New Shorter Oxford English Dictionary. 1993. vol 2).

24   DD Name: S100   Code: TOPSHP_24   Date accepted: 2000-11-01

          Name: triangle, point up

          Definition: a figure having three angles and three sides with point up. (New Shorter Oxford
          English Dictionary. 1993. vol 2)

25   DD Name: S100   Code: TOPSHP_25   Date accepted: 2000-11-01

          Name: triangle, point down

Value   Data Dictionary (DD) Reference

Definition: a figure having three angles and three sides with point down. (New Shorter Oxford English Dictionary. 1993. vol 2)

26	DD Name: S100	Code: TOPSHP_26	Date accepted: 2000-11-01

Name: circle

Definition: a perfectly round plane figure whose circumference is everywhere equidistant from its centre. (The New Shorter Oxford English Dictionary. 1993. vol 1)

27	DD Name: S100	Code: TOPSHP_27	Date accepted: 2000-11-01

Name: two upright crosses (one over the other)

Definition: two upright crosses, generally vertically disposed one above the other.

28	DD Name: S100	Code: TOPSHP_28	Date accepted: 2000-11-01

Name: T-shape

Definition: having a shape like the capital letter T.

29	DD Name: S100	Code: TOPSHP_29	Date accepted: 2000-11-01

Name: triangle pointing up over a circle

Definition: a triangle, vertex uppermost, located above a circle.

30	DD Name: S100	Code: TOPSHP_30	Date accepted: 2000-11-01

Name: upright cross over a circle

Definition: an upright cross located above a circle.

31	DD Name: S100	Code: TOPSHP_31	Date accepted: 2000-11-01

Name: rhombus over a circle

Definition: a rhombus located above a circle.

32	DD Name: S100	Code: TOPSHP_32	Date accepted: 2000-11-01

Name: circle over a triangle pointing up

Definition: a circle located over a triangle, vertex uppermost.

33	DD Name: S100	Code: TOPSHP_33	Date accepted: 2000-11-01

Name: other shape (see INFORM)

Value   Data Dictionary (DD) Reference

            Definition:

Attribute	Traffic flow

Acronym: **TRAFIC**   Code: 172

Use Type: F

Value Type: E

Data Dictionary (DD) Reference:

DD Name: S100   Date accepted: 2000-11-01

Definition:

Enumerations

Value   Data Dictionary (DD) Reference

1   DD Name: S100   Code: TRAFIC_1   Date accepted: 2000-11-01

          Name: inbound

          Definition: traffic flow in a general direction toward a port or similar destination.

2   DD Name: S100   Code: TRAFIC_2   Date accepted: 2000-11-01

          Name: outbound

          Definition: traffic flow in a general direction away from a port or similar point of origin.

3   DD Name: S100   Code: TRAFIC_3   Date accepted: 2000-11-01

          Name: one-way

          Definition: traffic flow in one general direction only.

4   DD Name: S100   Code: TRAFIC_4   Date accepted: 2000-11-01

          Name: two-way

          Definition: traffic flow in two generally opposite directions.

Attribute	Textual description

Acronym: **TXTDSC**   Code: 158

Use Type: F

Value Type: T

Data Dictionary (DD) Reference:

DD Name: S100   Date accepted: 2000-11-01

Definition: The string encodes the file name of an external text file that contains the text in English

Attribute	Value of depth contour

Acronym: **VALDCO**   Code: 174

Use Type: F

Value Type: F

Data Dictionary (DD) Reference:

DD Name: S100   Date accepted: 2000-11-01

Definition: The depth of a sea bottom contour.

Attribute	Value of maximum range

Acronym: **VALMXR**   Code: 177

Use Type: F

Value Type: F

Data Dictionary (DD) Reference:

DD Name: S100   Date accepted: 2000-11-01

Definition: The extreme distance at which an object can be seen or a signal detected.

Attribute	Value of sounding

Acronym: **VALSOU**   Code: 179

Use Type: F

Value Type: F

Data Dictionary (DD) Reference:

DD Name: S100   Date accepted: 2000-11-01

Definition: The value of the measurement of a sounding relative to the chart datum.

Attribute	Vertical clearance, closed

Acronym: **VERCCL**   Code: 182

Use Type: F

Value Type: F

Data Dictionary (DD) Reference:

DD Name: S100   Date accepted: 2000-11-01

Definition: The vertical clearance of an object in closed condition (e.g. a closed lifting bridge)
                  measured from the plane towards the object overhead.

Attribute	Vertical clearance

Acronym: **VERCLR**   Code: 181

Use Type: F

Value Type: F

Data Dictionary (DD) Reference:

DD Name: S100   Date accepted: 2000-11-01

Definition: The vertical clearance measured from the plane towards the object overhead.

Attribute	Vertical clearance, open

Acronym: **VERCOP**   Code: 183

Use Type: F

Value Type: F

<u>Data Dictionary (DD) Reference:</u>

DD Name: S100   Date accepted: 2000-11-01

Definition: The vertical clearance of an object in opened condition (e.g. an opened lifting bridge)
                  measured from the plane towards the object overhead.

Attribute	Water level effect

Acronym: **WATLEV**   Code: 187

Use Type: F

Value Type: E

Data Dictionary (DD) Reference:

DD Name: S100   Date accepted: 2000-11-01

Definition:

Enumerations

Value   Data Dictionary (DD) Reference

1   DD Name: S100   Code: WATLEV_1   Date accepted: 2000-11-01

            Name: partly submerged at high water

            Definition: partially covered and partially dry at high water.

2   DD Name: S100   Code: WATLEV_2   Date accepted: 2000-11-01

            Name: always dry

            Definition: not covered at high water under average meteorological conditions.

3   DD Name: S100   Code: WATLEV_3   Date accepted: 2000-11-01

            Name: always under water/submerged

            Definition: remains covered by water at all times under average meteorological conditions.

4   DD Name: S100   Code: WATLEV_4   Date accepted: 2000-11-01

            Name: covers and uncovers

            Definition: expression intended to indicate an area of a reef or other projection from the
            bottom of a body of water which periodically extends above and is submerged below the
            surface. Also referred to as dries or uncovers. (IHO Dictionary, S-32, 5th Edition, 1111)

5   DD Name: S100   Code: WATLEV_5   Date accepted: 2000-11-01

Value   Data Dictionary (DD) Reference

Name: awash

Definition: flush with, or washed by the waves at low water under average meteorological conditions. (adapted from IHO Dictionary, S-32, 5th Edition, 308)

Attribute	additional mark

Acronym: **addmrk**   Code: 17050

Use Type: F

Value Type: L

Data Dictionary (DD) Reference:

DD Name: IENC   Date accepted: 2001-05-31

Definition:

Enumerations

Value   Data Dictionary (DD) Reference

1   DD Name: IENC   Code: addmrk_1   Date accepted: 2001-05-31

           Name: top (board)

           Definition: a rectengular board at the top of the main sign

2   DD Name: IENC   Code: addmrk_2   Date accepted: 2001-05-31

           Name: bottom (board)

           Definition: a rectengular board at the bottom of the main sign

3   DD Name: IENC   Code: addmrk_3   Date accepted: 2001-05-31

           Name: right (triangle to the right)

           Definition: a triangular board at the right side of the main sign

4   DD Name: IENC   Code: addmrk_4   Date accepted: 2001-05-31

           Name: left (triangle to the left)

           Definition: a triangular board at the left side of the main sign

5   DD Name: IENC   Code: addmrk_5   Date accepted: 2001-05-31

           Name: bottom (triangle to the bottom)

           Definition: a triangular board at the bottom of the main sign

Attribute	Assemblies of ship (excluding)

Acronym: **lc_ase**   Code: 18015

Use Type: F

Value Type: L

Data Dictionary (DD) Reference:

DD Name: IENC   Date accepted: 2001-05-31

Definition:

Enumerations

Value   Data Dictionary (DD) Reference

1   DD Name: IENC   Code: lc_ase_1   Date accepted: 2001-05-31

             Name: all types

             Definition:

2   DD Name: IENC   Code: lc_ase_2   Date accepted: 2001-05-31

             Name: other

             Definition:

3   DD Name: IENC   Code: lc_ase_3   Date accepted: 2001-05-31

             Name: single vessel

             Definition:

5   DD Name: IENC   Code: lc_ase_5   Date accepted: 2001-05-31

             Name: convoy

             Definition: a rigid or towed convoy of craft

6   DD Name: IENC   Code: lc_ase_6   Date accepted: 2001-05-31

             Name: formation

             Definition: the manner in which a convoy is assembled

Value   Data Dictionary (DD) Reference

7   DD Name: IENC   Code: lc_ase_7   Date accepted: 2001-05-31

             Name: rigid convoy

             Definition: a pushed convoy or breasted up formation

8   DD Name: IENC   Code: lc_ase_8   Date accepted: 2001-05-31

             Name: pushed convoy

             Definition: a rigid assembly of craft of which at least one is positioned in front of the craft
             providing the power for propelling the convoy, known as the "pusher(s)"; a convoy composed
             of a pusher craft and a pushed craft coupled so as to permit guided articulation is also
             consid-ered as rigid

9   DD Name: IENC   Code: lc_ase_9   Date accepted: 2001-05-31

             Name: breasted up formation

             Definition: an assembly of craft coupled rigidly side by side, none of which is positioned in
             front of the craft propelling the assembly

10   DD Name: IENC   Code: lc_ase_10   Date accepted: 2001-05-31

             Name: towed convoy

             Definition: an assembly of one or more craft, floating establishments or floating installations
             towed by one or more self-propelled craft forming part of the convoy

Attribute	Assemblies of ship (including)

Acronym: **lc_asi**   Code: 18014

Use Type: F

Value Type: L

Data Dictionary (DD) Reference:

DD Name: IENC   Date accepted: 2001-05-31

Definition:

Enumerations

Value   Data Dictionary (DD) Reference

1   DD Name: IENC   Code: lc_asi_1   Date accepted: 2001-05-31
            Name: all types
            Definition:

2   DD Name: IENC   Code: lc_asi_2   Date accepted: 2001-05-31
            Name: other
            Definition:

3   DD Name: IENC   Code: lc_asi_3   Date accepted: 2001-05-31
            Name: single vessel
            Definition:

5   DD Name: IENC   Code: lc_asi_5   Date accepted: 2001-05-31
            Name: convoy
            Definition: a rigid or towed convoy of craft

6   DD Name: IENC   Code: lc_asi_6   Date accepted: 2001-05-31
            Name: formation
            Definition: the manner in which a convoy is assembled

Value   Data Dictionary (DD) Reference

7   DD Name: IENC   Code: lc_asi_7   Date accepted: 2001-05-31

             Name: rigid convoy

             Definition: a pushed convoy or breasted up formation

8   DD Name: IENC   Code: lc_asi_8   Date accepted: 2001-05-31

             Name: pushed convoy

             Definition: a rigid assembly of craft of which at least one is positioned in front of the craft
             providing the power for propelling the convoy, known as the "pusher(s)"; a convoy composed
             of a pusher craft and a pushed craft coupled so as to permit guided articulation is also
             consid-ered as rigid

9   DD Name: IENC   Code: lc_asi_9   Date accepted: 2001-05-31

             Name: breasted up formation

             Definition: an assembly of craft coupled rigidly side by side, none of which is positioned in
             front of the craft propelling the assembly

10   DD Name: IENC   Code: lc_asi_10   Date accepted: 2001-05-31

             Name: towed convoy

             Definition: an assembly of one or more craft, floating establishments or floating installations
             towed by one or more self-propelled craft forming part of the convoy

Attribute	Avarage Passing Time Reference

Acronym: **aptref**   Code: 17099

Use Type: F

Value Type: T

Data Dictionary (DD) Reference:

DD Name: IENC   Date accepted: 2001-05-31

Definition: The string encodes the file name of an external file

Attribute	Beam range value 1

Acronym: **lc_bm1**   Code: 18018

Use Type: F

Value Type: F

Data Dictionary (DD) Reference:

DD Name: IENC   Date accepted: 2001-05-31

Definition: The minimum value of the beam range the particular article/clause of the applicable
                   law/regulation is dealing with

Attribute	Beam range value 2

Acronym: **lc_bm2**   Code: 18019

Use Type: F

Value Type: F

Data Dictionary (DD) Reference:

DD Name: IENC   Date accepted: 2001-05-31

Definition: The maximum value of the beam range the particular article/clause of the applicable
                   law/regulation is dealing with

Attribute	bunker vessel, availability

Acronym: **bunves**   Code: 17065

Use Type: F

Value Type: E

Data Dictionary (DD) Reference:

DD Name: IENC   Date accepted: 2001-05-31

Definition:

Enumerations

Value   Data Dictionary (DD) Reference

1   DD Name: IENC   Code: bunves_1   Date accepted: 2001-05-31

            Name: bunker vessel available

            Definition: a bunker vessel is available

2   DD Name: IENC   Code: bunves_2   Date accepted: 2001-05-31

            Name: no bunker vessel available

            Definition: a bunker vessel is not available

Attribute	Category of anchorage

Acronym: **catach**   Code: 17000

Use Type: F

Value Type: L

Data Dictionary (DD) Reference:

DD Name: IENC   Date accepted: 2001-05-31

Definition:

Enumerations

Value   Data Dictionary (DD) Reference

1   DD Name: IENC   Code: catach_1   Date accepted: 2001-05-31

          Name: unrestricted anchorage

          Definition: an area in which vessels anchor or may anchor. (IHO Dictionary, S-32, 5th
          Edition, 130)

2   DD Name: IENC   Code: catach_2   Date accepted: 2001-05-31

          Name: deep water anchorage

          Definition: an area in which vessels of deep draught anchor or may anchor.

3   DD Name: IENC   Code: catach_3   Date accepted: 2001-05-31

          Name: tanker anchorage

          Definition: an area in which tankers anchor or may anchor.

4   DD Name: IENC   Code: catach_4   Date accepted: 2001-05-31

          Name: explosives anchorage

          Definition: an area set apart for anchored ships discharging or receiving explosives. (IHO
          Dictionary, S-32, 5th Edition, 1732)

5   DD Name: IENC   Code: catach_5   Date accepted: 2001-05-31

Value	Data Dictionary (DD) Reference

Name: quarantine anchorage

Definition: an area where a vessel anchors when satisfying quarantine regulations. (IHO Dictionary, S-32, 5th Edition, 4117)

6	DD Name: IENC	Code: catach_6	Date accepted: 2001-05-31

Name: sea-plane anchorage

Definition: an area in which sea-planes anchor or may anchor.

7	DD Name: IENC	Code: catach_7	Date accepted: 2001-05-31

Name: small craft anchorage

Definition: an area in which yachts and small boats anchor or may anchor.

9	DD Name: IENC	Code: catach_9	Date accepted: 2001-05-31

Name: anchorage for periods up to 24 hours

Definition: an area in which vessels anchor or may anchor for periods of up to 24 hours.

10	DD Name: IENC	Code: catach_10	Date accepted: 2001-05-31

Name: anchorage for pushing-navigation vessels

Definition: an area where pushing-navigation vessels may anchor

11	DD Name: IENC	Code: catach_11	Date accepted: 2001-05-31

Name: anchorage for other vessels than pushing-navigation vessels

Definition: an area where other vessels than pushing-navigation vessels may anchor

Attribute	category of berth

Acronym: **catbrt**   Code: 17066

Use Type: F

Value Type: L

Data Dictionary (DD) Reference:

DD Name: IENC   Date accepted: 2001-05-31

Definition:

Enumerations

Value   Data Dictionary (DD) Reference

1   DD Name: IENC   Code: catbrt_1   Date accepted: 2001-05-31

           Name: loading

           Definition: A place where vessels may berth for loading cargo.

2   DD Name: IENC   Code: catbrt_2   Date accepted: 2001-05-31

           Name: unloading

           Definition: A place where vessels may berth for unloading cargo.

3   DD Name: IENC   Code: catbrt_3   Date accepted: 2001-05-31

           Name: overnight accommodation

           Definition: Berths that are suitable/ meant for berthing overnight.

4   DD Name: IENC   Code: catbrt_4   Date accepted: 2001-05-31

           Name: berth for pushing-navigation vessels

           Definition: an place where pushing-navigation vessels may berth.

5   DD Name: IENC   Code: catbrt_5   Date accepted: 2001-05-31

           Name: berth for other vessels than pushing-navigation vessels

           Definition: an place where other vessels than pushing-navigation vessels may berth.

Value   Data Dictionary (DD) Reference

6   DD Name: IENC   Code: catbrt_6   Date accepted: 2001-05-31

             Name: fleeting area

             Definition: A legally permitted area in or near the waterway designated for temporary barge
             mooring.

7   DD Name: IENC   Code: catbrt_7   Date accepted: 2001-05-31

             Name: first class landing

             Definition: A federally designated area that provides tie-ups and at least 9 feet (2.7m) of
             water depth during low water level.

8   DD Name: IENC   Code: catbrt_8   Date accepted: 2001-05-31

             Name: second class landing

             Definition: A federally designated area that provides tie-ups and at least 9 feet (2.7m) of
             water depth normal pool level.

Attribute	category of bunker station

Acronym: **catbun**   Code: 17067

Use Type: F

Value Type: L

Data Dictionary (DD) Reference:

DD Name: IENC   Date accepted: 2001-05-31

Definition:

Enumerations

Value   Data Dictionary (DD) Reference

1   DD Name: IENC   Code: catbun_1   Date accepted: 2001-05-31

          Name: diesel oil

          Definition: diesel oil available

2   DD Name: IENC   Code: catbun_2   Date accepted: 2001-05-31

          Name: water

          Definition: water available

3   DD Name: IENC   Code: catbun_3   Date accepted: 2001-05-31

          Name: ballast

          Definition: ballast available

Attribute	Category of cable

Acronym: **catcbl**   Code: 17101

Use Type: F

Value Type: E

Data Dictionary (DD) Reference:

DD Name: IENC   Date accepted: 2001-05-31

Definition:

Enumerations

Value   Data Dictionary (DD) Reference

1   DD Name: IENC   Code: catcbl_1   Date accepted: 2001-05-31

          Name: power line

          Definition: a cable used for the supply of electricity.

3   DD Name: IENC   Code: catcbl_3   Date accepted: 2001-05-31

          Name: transmission line

          Definition: multiple un-insulated cables usually supported by steel lattice towers. Such
          features are generally more prominent than normal power lines.

4   DD Name: IENC   Code: catcbl_4   Date accepted: 2001-05-31

          Name: telephone

          Definition: a cable used for the transmission of telephone signals.

5   DD Name: IENC   Code: catcbl_5   Date accepted: 2001-05-31

          Name: telegraph

          Definition: a cable used for the transmission of telegraph signals.

6   DD Name: IENC   Code: catcbl_6   Date accepted: 2001-05-31

          Name: mooring cable/chain

Value   Data Dictionary (DD) Reference

             Definition: a cable or chain used to secure a mooring buoy or other floating structure.

7   DD Name: IENC   Code: catcbl_7   Date accepted: 2001-05-31

             Name: ferry cable

             Definition: a cable where a cable ferry is connected to

Attribute	Category of cargo (excluding)

Acronym: **lc_cce**   Code: 18017

Use Type: F

Value Type: L

Data Dictionary (DD) Reference:

DD Name: IENC   Date accepted: 2001-05-31

Definition:

Enumerations

Value   Data Dictionary (DD) Reference

1   DD Name: IENC   Code: lc_cce_1   Date accepted: 2001-05-31

            Name: all types

            Definition:

2   DD Name: IENC   Code: lc_cce_2   Date accepted: 2001-05-31

            Name: other

            Definition:

4   DD Name: IENC   Code: lc_cce_4   Date accepted: 2001-05-31

            Name: bulk

            Definition: unpacked homogenous cargo poured loose in a certain space of a vessel e.g. oil
            or grain

5   DD Name: IENC   Code: lc_cce_5   Date accepted: 2001-05-31

            Name: dry cargo

            Definition:

6   DD Name: IENC   Code: lc_cce_6   Date accepted: 2001-05-31

            Name: liquid cargo

Value	Data Dictionary (DD) Reference
	Definition:

7	DD Name: IENC	Code: lc_cce_7	Date accepted: 2001-05-31
	Name: liquid cargo (type N)		
	Definition:		

8	DD Name: IENC	Code: lc_cce_8	Date accepted: 2001-05-31
	Name: liquid cargo (type C)		
	Definition:		

9	DD Name: IENC	Code: lc_cce_9	Date accepted: 2001-05-31
	Name: gas		
	Definition:		

Attribute	Category of cargo (including)

Acronym: **lc_cci**   Code: 18016

Use Type: F

Value Type: L

Data Dictionary (DD) Reference:

DD Name: IENC   Date accepted: 2001-05-31

Definition:

Enumerations

Value   Data Dictionary (DD) Reference

1   DD Name: IENC   Code: lc_cci_1   Date accepted: 2001-05-31
             Name: all types
             Definition:

2   DD Name: IENC   Code: lc_cci_2   Date accepted: 2001-05-31
             Name: other
             Definition:

4   DD Name: IENC   Code: lc_cci_4   Date accepted: 2001-05-31
             Name: bulk
             Definition: unpacked homogenous cargo poured loose in a certain space of a vessel e.g. oil
             or grain

5   DD Name: IENC   Code: lc_cci_5   Date accepted: 2001-05-31
             Name: dry cargo
             Definition:

6   DD Name: IENC   Code: lc_cci_6   Date accepted: 2001-05-31
             Name: liquid cargo

Value	Data Dictionary (DD) Reference		
	Definition:		
7	DD Name: IENC	Code: lc_cci_7	Date accepted: 2001-05-31
	Name: liquid cargo (type N)		
	Definition:		
8	DD Name: IENC	Code: lc_cci_8	Date accepted: 2001-05-31
	Name: liquid cargo (type C)		
	Definition:		
9	DD Name: IENC	Code: lc_cci_9	Date accepted: 2001-05-31
	Name: gas		
	Definition:		

Attribute	category of CEMT class

Acronym: **catccl**   Code: 17068

Use Type: F

Value Type: L

<u>Data Dictionary (DD) Reference:</u>

DD Name: IENC   Date accepted: 2001-05-31

Definition:

<u>Enumerations</u>

Value   Data Dictionary (DD) Reference

1   DD Name: IENC   Code: catccl_1   Date accepted: 2001-05-31

             Name: 0 small vessels and pleasure craft

             Definition: designated for small vessels and pleasure crafts only

2   DD Name: IENC   Code: catccl_2   Date accepted: 2001-05-31

             Name: I peniche

             Definition: designated for barges of type "Péniche" (west of river Elbe) or of type "Gross
             Finow" (east of river Elbe)

3   DD Name: IENC   Code: catccl_3   Date accepted: 2001-05-31

             Name: II campine barge

             Definition: designated for barges of type "Kempenaar" (west of river Elbe) or of type
             "BM-500" (east of river Elbe)

4   DD Name: IENC   Code: catccl_4   Date accepted: 2001-05-31

             Name: III Dortmund-Ems barge

             Definition: designated for barges of type "Gustav Koenigs" (west of river Elbe) or of a similar
             type concerning the dimensions (east of river Elbe)

5   DD Name: IENC   Code: catccl_5   Date accepted: 2001-05-31

Value	Data Dictionary (DD) Reference
	Name: IV Rhine-Herne barge
	Definition: designated for barges of type "Johann Welker"

6	DD Name: IENC	Code: catccl_6	Date accepted: 2001-05-31

Name: Va Large Rhine barge; 1-barge push-tow unit

Definition: designated for barges of type "Large Rhine barge" or pushed convoys with one barge

7	DD Name: IENC	Code: catccl_7	Date accepted: 2001-05-31

Name: Vb 2-barge push-tow unit; long formation

Definition: designated for pushed convoys with two barges, long formation

8	DD Name: IENC	Code: catccl_8	Date accepted: 2001-05-31

Name: VIa 2-barge push-tow unit; wide formation

Definition: designated for pushed convoys with two barges, wide formation

9	DD Name: IENC	Code: catccl_9	Date accepted: 2001-05-31

Name: VIb 4-barge push-tow unit

Definition: designated for pushed convoys with four barges

10	DD Name: IENC	Code: catccl_10	Date accepted: 2001-05-31

Name: VIc 6-barge push-tow unit

Definition: designated for pushed convoys with six barges

11	DD Name: IENC	Code: catccl_11	Date accepted: 2001-05-31

Name: No CEMT class

Definition:

Attribute	Category of checkpoint

Acronym: **catchp**   Code: 17010

Use Type: F

Value Type: L

Data Dictionary (DD) Reference:

DD Name: IENC   Date accepted: 2001-05-31

Definition:

Enumerations

Value   Data Dictionary (DD) Reference

1   DD Name: IENC   Code: catchp_1   Date accepted: 2001-05-31

            Name: custom

            Definition: an office, especially in ports, at which customs dues are collected or
            administrated. (adapted from The New Shorter Oxford English Dictionary, 1993)

2   DD Name: IENC   Code: catchp_2   Date accepted: 2001-05-31

            Name: border

            Definition: an office, at which immigration control takes place

Attribute	Category of communication

Acronym: **catcom**   Code: 17069

Use Type: F

Value Type: L

Data Dictionary (DD) Reference:

DD Name: IENC   Date accepted: 2001-05-31

Definition:

Enumerations

Value   Data Dictionary (DD) Reference

1   DD Name: IENC   Code: catcom_1   Date accepted: 2001-05-31

            Name: VTS centre

            Definition: The centre from which Vessel Traffic Services are operated. A VTS is a service
            implemented by a competent authority, designed to improve the safety and efficiency of
            vessel traffic and to protect the environment. The services should have the capability to
            interact with the traffic and to respond to traffic situations developing in the area.

2   DD Name: IENC   Code: catcom_2   Date accepted: 2001-05-31

            Name: VTS sector

            Definition: The service area of a VTS centre.

3   DD Name: IENC   Code: catcom_3   Date accepted: 2001-05-31

            Name: IVS point

            Definition: A reporting point of the "Informatie en Volgsysteem voor de Scheepvaart" in the
            Netherlands.

4   DD Name: IENC   Code: catcom_4   Date accepted: 2001-05-31

            Name: MID

            Definition: A reporting point of the "Melde- und Informationssystem Binnenschifffahrt" in
            Germany.

Value   Data Dictionary (DD) Reference

5	DD Name: IENC	Code: catcom_5	Date accepted: 2001-05-31

Name: lock

Definition: A reporting point for vessels at a lock.

6	DD Name: IENC	Code: catcom_6	Date accepted: 2001-05-31

Name: bridge

Definition: A reporting point for vessels at a movable bridge.

7	DD Name: IENC	Code: catcom_7	Date accepted: 2001-05-31

Name: custom

Definition: A reporting point of the customs services for vessels.

8	DD Name: IENC	Code: catcom_8	Date accepted: 2001-05-31

Name: harbour

Definition: A reporting point of a harbour.

Attribute	Category of exceptional structure

Acronym: **catexs**
Code: 17100

Use Type: F

Value Type: E

Data Dictionary (DD) Reference:

DD Name: IENC
Date accepted: 2001-05-31

Definition:

Enumerations

Value   Data Dictionary (DD) Reference

1   DD Name: IENC   Code: catexs_1   Date accepted: 2001-05-31

Name: Lift-Lock

Definition: A lock of which the lock chamber itself is lifted vertically to level with the next waterway section

2   DD Name: IENC   Code: catexs_2   Date accepted: 2001-05-31

Name: Aqueduct

Definition: A structure (similar to the ancient aqueducts), for conveying a canal over a river or hollow; more properly called an aqueduct bridge. (From Webster's Revised Unabridged Dictionary, 1913)

3   DD Name: IENC   Code: catexs_3   Date accepted: 2001-05-31

Name: Sloping plane lock

Definition: A lock of which the lock chamber itself travels over a sloping plane to level with the next waterway section

4   DD Name: IENC   Code: catexs_4   Date accepted: 2001-05-31

Name: Water slope lock (Pente d'Eau)

Value   Data Dictionary (DD) Reference

Definition: In French "Pente d'Eau". A lock of which the lock chamber is formed by a sloping plane and moving gate, which is pushing a triangular section of water up along the slope to level with the next waterway section

5   DD Name: IENC   Code: catexs_5   Date accepted: 2001-05-31

Name: Other

Definition: other categories of an exceptional structure

Attribute	Category of ferry

Acronym: **catfry**   Code: 17007

Use Type: F

Value Type: E

<u>Data Dictionary (DD) Reference:</u>

DD Name: IENC   Date accepted: 2001-05-31

Definition:

<u>Enumerations</u>

Value   Data Dictionary (DD) Reference

4   DD Name: IENC   Code: catfry_4   Date accepted: 2001-05-31

            Name: swinging wire ferry

            Definition: ferry connected to a fixed point (e.g., an anchor in the middle of the waterway)
            and swings around this point from shore to shore via a cable to an anchor. The cable runs
            more or less parallel to the current

Attribute	category of harbour area

Acronym: **cathbr**   Code: 17070

Use Type: F

Value Type: L

Data Dictionary (DD) Reference:

DD Name: IENC   Date accepted: 2001-05-31

Definition:

Enumerations

Value   Data Dictionary (DD) Reference

1   DD Name: IENC   Code: cathbr_1   Date accepted: 2001-05-31

          Name: custom harbour

          Definition: A harbour that is administered by the customs. It may be a free harbour.

2   DD Name: IENC   Code: cathbr_2   Date accepted: 2001-05-31

          Name: port of refuge

          Definition: A harbour that can be used to find shelter for bad environmental conditions or
          where efforts to mitigate larger damage or threat(s) of damage to either the vessel, her crew
          or the environment can be rendered.

3   DD Name: IENC   Code: cathbr_3   Date accepted: 2001-05-31

          Name: yacht harbour/marina

          Definition: a harbour with facilities for small boats and yachts (IHO Dictionary, S-32, 5th
          Edition, 3095).

4   DD Name: IENC   Code: cathbr_4   Date accepted: 2001-05-31

          Name: fishing harbour

          Definition: a harbour with facilities for fishing boats.

Attribute	Category of harbour facility

Acronym: **cathaf**   Code: 17008

Use Type: F

Value Type: L

Data Dictionary (DD) Reference:

DD Name: IENC   Date accepted: 2001-05-31

Definition:

Enumerations

Value   Data Dictionary (DD) Reference

1   DD Name: IENC   Code: cathaf_1   Date accepted: 2001-05-31

             Name: RoRo-terminal

             Definition: a terminal for roll-on roll-off ferries.

3   DD Name: IENC   Code: cathaf_3   Date accepted: 2001-05-31

             Name: ferry terminal

             Definition: a terminal for passenger and vehicle ferries.

4   DD Name: IENC   Code: cathaf_4   Date accepted: 2001-05-31

             Name: fishing harbour

             Definition: a harbour with facilities for fishing boats.

6   DD Name: IENC   Code: cathaf_6   Date accepted: 2001-05-31

             Name: naval base

             Definition: a centre of operations for naval vessels (adapted from The Collins Dictionary).

7   DD Name: IENC   Code: cathaf_7   Date accepted: 2001-05-31

             Name: tanker terminal

             Definition: a terminal for the bulk handling of liquid cargoes.

Value   Data Dictionary (DD) Reference

8   DD Name: IENC   Code: cathaf_8   Date accepted: 2001-05-31

             Name: passenger terminal

             Definition: a terminal for the loading and unloading of passengers.

9   DD Name: IENC   Code: cathaf_9   Date accepted: 2001-05-31

             Name: shipyard

             Definition: a place where ships are built or repaired (IHO Dictionary, S-32, 5th Edition, 4686).

10   DD Name: IENC   Code: cathaf_10   Date accepted: 2001-05-31

             Name: container terminal

             Definition: a terminal for container ships.

11   DD Name: IENC   Code: cathaf_11   Date accepted: 2001-05-31

             Name: bulk terminal

             Definition: a terminal for the handling of bulk materials such as iron ore, coal, etc.

12   DD Name: IENC   Code: cathaf_12   Date accepted: 2001-05-31

             Name: syncrolift

             Definition: a platform powered by synchronous electric motors used to lift vessels (larger than boats) in and out of the water.

13   DD Name: IENC   Code: cathaf_13   Date accepted: 2001-05-31

             Name: straddle carrier

             Definition: a wheeled vehicle designed to lift and carry containers or vessels within its own framework. It is used for moving, and sometimes stacking, shipping containers and vessels.

16   DD Name: IENC   Code: cathaf_16   Date accepted: 2001-05-31

             Name: service and repair

             Definition: a place where mechanical services or repairs can be undertaken to engines or other vessel equipment.

17   DD Name: IENC   Code: cathaf_17   Date accepted: 2001-05-31

             Name: quarantine station

Value   Data Dictionary (DD) Reference

Definition: A medical control center located in an isolated spot ashore where patients with contagious diseases from vessel in quarantine are taken.

Attribute	Category of hulk

Acronym: **cathlk**   Code: 17102

Use Type: F

Value Type: L

<u>Data Dictionary (DD) Reference:</u>

DD Name: IENC   Date accepted: 2001-05-31

Definition:

<u>Enumerations</u>

Value   Data Dictionary (DD) Reference

1   DD Name: IENC   Code: cathlk_1   Date accepted: 2001-05-31

             Name: floating restaurant

             Definition: a permanently moored floating structure, such as an old ship, used as a
             restaurant.

2   DD Name: IENC   Code: cathlk_2   Date accepted: 2001-05-31

             Name: historic ship

             Definition: a ship of historical interest permanently moored as a tourist attraction.

3   DD Name: IENC   Code: cathlk_3   Date accepted: 2001-05-31

             Name: museum

             Definition: a permanently moored floating structure, such as an old ship, used as a museum.

4   DD Name: IENC   Code: cathlk_4   Date accepted: 2001-05-31

             Name: accommodation

             Definition: a permanently moored floating structure, such as an old ship, used for
             accommodation.

5   DD Name: IENC   Code: cathlk_5   Date accepted: 2001-05-31

Value   Data Dictionary (DD) Reference

            Name: floating breakwater

            Definition: a permanently moored floating structure, often constructed from old ships, used as a breakwater.

6   DD Name: IENC   Code: cathlk_6   Date accepted: 2001-05-31

            Name: casino boat

            Definition: a permanently moored floating structure, such as an old ship, used as a casino boat

Attribute	Category of lateral mark

Acronym: **catlam**   Code: 17011

Use Type: F

Value Type: E

Data Dictionary (DD) Reference:

DD Name: IENC   Date accepted: 2001-05-31

Definition:

Enumerations

Value   Data Dictionary (DD) Reference

1   DD Name: IENC   Code: catlam_1   Date accepted: 2001-05-31

            Name: port-hand lateral mark

            Definition: indicates the port boundary of a navigational channel or suggested route when
            proceeding in the 'conventional direction of buoyage'.

2   DD Name: IENC   Code: catlam_2   Date accepted: 2001-05-31

            Name: starboard-hand lateral mark

            Definition: indicates the starboard boundary of a navigational channel or suggested route
            when proceeding in the 'conventional direction of buoyage'.

3   DD Name: IENC   Code: catlam_3   Date accepted: 2001-05-31

            Name: preferred channel to starboard lateral mark

            Definition: at a point where a channel divides, when proceeding in the 'conventional direction
            of buoyage', the preferred channel (or primary route) is indicated by a modified port-hand
            lateral mark.

4   DD Name: IENC   Code: catlam_4   Date accepted: 2001-05-31

            Name: preferred channel to port lateral mark

Value   Data Dictionary (DD) Reference

Definition: at a point where a channel divides, when proceeding in the 'conventional direction of buoyage', the preferred channel (or primary route) is indicated by a modified starboard-hand lateral mark.

5   DD Name: IENC   Code: catlam_5   Date accepted: 2001-05-31

Name: right-hand side of the waterway

Definition: indicates the right-hand side of the inland waterway

6   DD Name: IENC   Code: catlam_6   Date accepted: 2001-05-31

Name: left-hand side of the waterway

Definition: indicates the left-hand side of the inland waterway

7   DD Name: IENC   Code: catlam_7   Date accepted: 2001-05-31

Name: right-hand side of the channel

Definition: indicates the right-hand side of a channel of an inland waterway

8   DD Name: IENC   Code: catlam_8   Date accepted: 2001-05-31

Name: left-hand side of the channel

Definition: indicates the left-hand side of a channel of an inland waterway

9   DD Name: IENC   Code: catlam_9   Date accepted: 2001-05-31

Name: bifurcation of the waterway

Definition: indicates a bifurcation of the inland waterway

10   DD Name: IENC   Code: catlam_10   Date accepted: 2001-05-31

Name: bifurcation of the channel

Definition: indicates a bifurcation of a channel of an inland waterway

11   DD Name: IENC   Code: catlam_11   Date accepted: 2001-05-31

Name: channel near the right bank

Definition: indicates that the channel is near the right bank

12   DD Name: IENC   Code: catlam_12   Date accepted: 2001-05-31

Name: channel near the left bank

Value	Data Dictionary (DD) Reference

Definition: indicates that the channel is near the left bank

13	DD Name: IENC Code: catlam_13 Date accepted: 2001-05-31

Name: channel cross-over to the right bank

Definition: indicates that the channel crosses from the left to the right bank

14	DD Name: IENC Code: catlam_14 Date accepted: 2001-05-31

Name: channel cross-over to the left bank

Definition: indicates that the channel crosses from the right to the left bank

15	DD Name: IENC Code: catlam_15 Date accepted: 2001-05-31

Name: danger point or obstacles at the right-hand side

Definition: indicates a danger point or obstacles at the right-hand side

16	DD Name: IENC Code: catlam_16 Date accepted: 2001-05-31

Name: obstruction at the left-hand side

Definition: indicates a danger point or obstacles at the right-hand side

17	DD Name: IENC Code: catlam_17 Date accepted: 2001-05-31

Name: turn off at the right-hand side

Definition: indicates a turn off at the right-hand side

18	DD Name: IENC Code: catlam_18 Date accepted: 2001-05-31

Name: turn off at the left-hand side

Definition: indicates a turn off at the left-hand side

19	DD Name: IENC Code: catlam_19 Date accepted: 2001-05-31

Name: junction at the right-hand side

Definition: indicates a junction at the right-hand side

20	DD Name: IENC Code: catlam_20 Date accepted: 2001-05-31

Name: junction at the left-hand side

Definition: indicates a junction at the left-hand side

Value   Data Dictionary (DD) Reference

21   DD Name: IENC   Code: catlam_21   Date accepted: 2001-05-31

             Name: harbour entry at the right-hand side

             Definition: indicates a harbour entry at the right-hand side

22   DD Name: IENC   Code: catlam_22   Date accepted: 2001-05-31

             Name: harbour entry at the left-hand side

             Definition: indicates a harbour entry at the left-hand side

23   DD Name: IENC   Code: catlam_23   Date accepted: 2001-05-31

             Name: bridge pier mark

             Definition: indicates a bridge pier in a inland waterway

Attribute	category of notice mark

Acronym: **catnmk**   Code: 17052

Use Type: F

Value Type: E

Data Dictionary (DD) Reference:

DD Name: IENC   Date accepted: 2001-05-31

Definition:

Enumerations

Value   Data Dictionary (DD) Reference

1   DD Name: IENC   Code: catnmk_1   Date accepted: 2001-05-31

           Name: (A.1) no entry

           Definition:

2   DD Name: IENC   Code: catnmk_2   Date accepted: 2001-05-31

           Name: (A.1a) closed area, but small craft boats without engine permitted (only
           RheinSchPV and Binnenvaatpolitiereglement)

           Definition:

3   DD Name: IENC   Code: catnmk_3   Date accepted: 2001-05-31

           Name: (A.2) no overtaking

           Definition:

4   DD Name: IENC   Code: catnmk_4   Date accepted: 2001-05-31

           Name: (A.3) no overtaking of convoys by convoys

           Definition:

5   DD Name: IENC   Code: catnmk_5   Date accepted: 2001-05-31

           Name: (A.4) no passing or overtaking

Value	Data Dictionary (DD) Reference
	Definition:

6   DD Name: IENC   Code: catnmk_6   Date accepted: 2001-05-31

    Name: (A.5) no berthing (i.e. no anchoring or making fast to the bank)

    Definition:

7   DD Name: IENC   Code: catnmk_7   Date accepted: 2001-05-31

    Name: (A.5.1) no berthing within the breadth indicated in meters(measured from the sign)

    Definition:

8   DD Name: IENC   Code: catnmk_8   Date accepted: 2001-05-31

    Name: (A.6) no anchoring or trailing of anchors, cables or chains

    Definition:

9   DD Name: IENC   Code: catnmk_9   Date accepted: 2001-05-31

    Name: (A.7) no making fast to the bank

    Definition:

10   DD Name: IENC   Code: catnmk_10   Date accepted: 2001-05-31

    Name: (A.8) no turning

    Definition:

11   DD Name: IENC   Code: catnmk_11   Date accepted: 2001-05-31

    Name: (A.9) Do not create wash

    Definition:

12   DD Name: IENC   Code: catnmk_12   Date accepted: 2001-05-31

    Name: (A.10) no passing on left side (in openings of bridges or weirs)

    Definition:

13   DD Name: IENC   Code: catnmk_13   Date accepted: 2001-05-31

    Name: (A.10) no passing on right side (in openings of bridges or weirs)

    Definition:

Value   Data Dictionary (DD) Reference

14   DD Name: IENC   Code: catnmk_14   Date accepted: 2001-05-31

             Name: (A.12) motorized craft prohibited

             Definition:

15   DD Name: IENC   Code: catnmk_15   Date accepted: 2001-05-31

             Name: (A.13) all sports and pleasure craft prohibited

             Definition:

16   DD Name: IENC   Code: catnmk_16   Date accepted: 2001-05-31

             Name: (A.14) water skiing prohibited

             Definition:

17   DD Name: IENC   Code: catnmk_17   Date accepted: 2001-05-31

             Name: (A.15) sailing vessels prohibited

             Definition:

18   DD Name: IENC   Code: catnmk_18   Date accepted: 2001-05-31

             Name: (A.16) all craft other than motorized vessels or sailing craft prohibited

             Definition:

19   DD Name: IENC   Code: catnmk_19   Date accepted: 2001-05-31

             Name: (A.17) use of sailboards prohibited

             Definition:

20   DD Name: IENC   Code: catnmk_20   Date accepted: 2001-05-31

             Name: (A.20) water bikes prohibited

             Definition:

21   DD Name: IENC   Code: catnmk_21   Date accepted: 2001-05-31

             Name: (A.18) end of zone authorized for high speed navigation of small sport and
             pleasure craft prohibited

             Definition:

22   DD Name: IENC   Code: catnmk_22   Date accepted: 2001-05-31

Value   Data Dictionary (DD) Reference

           Name: (A.19) no launching or beaching of vessels

           Definition:

23	DD Name: IENC	Code: catnmk_23	Date accepted: 2001-05-31

           Name: (B.1) proceed in left direction

           Definition:

24	DD Name: IENC	Code: catnmk_24	Date accepted: 2001-05-31

           Name: (B.1) proceed in right direction

           Definition:

25	DD Name: IENC	Code: catnmk_25	Date accepted: 2001-05-31

           Name: (B.2a) move to the side of the channel on your port side

           Definition:

26	DD Name: IENC	Code: catnmk_26	Date accepted: 2001-05-31

           Name: (B.2b) move to the side of the channel on your starboard side

           Definition:

27	DD Name: IENC	Code: catnmk_27	Date accepted: 2001-05-31

           Name: (B.3a) keep on the side of the channel on your portside

           Definition:

28	DD Name: IENC	Code: catnmk_28	Date accepted: 2001-05-31

           Name: (B.3b) keep on the side of the channel on your starboard side

           Definition:

29	DD Name: IENC	Code: catnmk_29	Date accepted: 2001-05-31

           Name: (B.4a) cross channel to port

           Definition:

30	DD Name: IENC	Code: catnmk_30	Date accepted: 2001-05-31

           Name: (B.4b) cross channel to starboard

Value	Data Dictionary (DD) Reference
	Definition:

31	DD Name: IENC	Code: catnmk_31	Date accepted: 2001-05-31

Name: (B.5) stop as prescribed in the regulations

Definition:

32	DD Name: IENC	Code: catnmk_32	Date accepted: 2001-05-31

Name: (B.6) do not exceed the speed indicated (in km/h)

Definition:

33	DD Name: IENC	Code: catnmk_33	Date accepted: 2001-05-31

Name: (B.7) give a sound signal

Definition:

34	DD Name: IENC	Code: catnmk_34	Date accepted: 2001-05-31

Name: (B.8) keep a particulary sharp lookout

Definition:

35	DD Name: IENC	Code: catnmk_35	Date accepted: 2001-05-31

Name: (B.9a) do not enter the main waterway until certain that this will not oblige vessels proceeding on it to change their course or speed

Definition:

36	DD Name: IENC	Code: catnmk_36	Date accepted: 2001-05-31

Name: (B.9b) do not cross the main waterway until certain that this will not oblige vessels proceeding on it to change their course or speed

Definition:

37	DD Name: IENC	Code: catnmk_37	Date accepted: 2001-05-31

Name: (B.11) obligation to enter into a radiotelephone link on the channel as indicated on the board

Definition:

38	DD Name: IENC	Code: catnmk_38	Date accepted: 2001-05-31

Value	Data Dictionary (DD) Reference		
	Name:	(C.1) depth of water limited	
	Definition:		
39	DD Name: IENC	Code: catnmk_39	Date accepted: 2001-05-31
	Name:	(C.2) headroom limited	
	Definition:		
40	DD Name: IENC	Code: catnmk_40	Date accepted: 2001-05-31
	Name:	(C.3) width of passage or channel limited	
	Definition:		
41	DD Name: IENC	Code: catnmk_41	Date accepted: 2001-05-31
	Name:	(C.4) there are restrictions on navigation: make inquiries (with additional sign at bottom of main sign)	
	Definition:		
42	DD Name: IENC	Code: catnmk_42	Date accepted: 2001-05-31
	Name:	(C.5) the channel lies at a distance from the left bank	
	Definition:		
43	DD Name: IENC	Code: catnmk_43	Date accepted: 2001-05-31
	Name:	(C.5) the channel lies at a distance from the right bank	
	Definition:		
44	DD Name: IENC	Code: catnmk_44	Date accepted: 2001-05-31
	Name:	(D.1a) recommended channel in both directions	
	Definition:		
45	DD Name: IENC	Code: catnmk_45	Date accepted: 2001-05-31
	Name:	(D.1b) recommended channel only in the direction indicated, passage in the opposite direction prohibited (at bridges)	
	Definition:		
46	DD Name: IENC	Code: catnmk_46	Date accepted: 2001-05-31

Value	Data Dictionary (DD) Reference

Name: (D.2) you are recommended to keep on right side (in openings of bridges and weirs)

Definition:

47	DD Name: IENC	Code: catnmk_47	Date accepted: 2001-05-31

Name: (D.2) you are recommended to keep on left side (in openings of bridges and weirs)

Definition:

48	DD Name: IENC	Code: catnmk_48	Date accepted: 2001-05-31

Name: (D.3) you are recommended to proceed in the left direction

Definition:

49	DD Name: IENC	Code: catnmk_49	Date accepted: 2001-05-31

Name: (D.3) you are recommended to proceed in the right direction

Definition:

50	DD Name: IENC	Code: catnmk_50	Date accepted: 2001-05-31

Name: (E.1) entry permitted (general sign)

Definition:

51	DD Name: IENC	Code: catnmk_51	Date accepted: 2001-05-31

Name: (E.2) overhead cable crossing

Definition:

52	DD Name: IENC	Code: catnmk_52	Date accepted: 2001-05-31

Name: (E.3) weir

Definition:

53	DD Name: IENC	Code: catnmk_53	Date accepted: 2001-05-31

Name: (E.4a) ferry-boat not moving independently

Definition:

54	DD Name: IENC	Code: catnmk_54	Date accepted: 2001-05-31

Value	Data Dictionary (DD) Reference		
	Name:	(E.4b) ferry-boat moving independently	
	Definition:		

Name: (E.4b) ferry-boat moving independently

Definition:

55	DD Name: IENC	Code: catnmk_55	Date accepted: 2001-05-31

Name: (E.5) berthing (i.e. no anchoring or making fast to the bank) permitted

Definition:

56	DD Name: IENC	Code: catnmk_56	Date accepted: 2001-05-31

Name: (E.5.1) berthing permitted on the stretch of water of the breadth measured from, and shown on the board in meters

Definition:

57	DD Name: IENC	Code: catnmk_57	Date accepted: 2001-05-31

Name: (E.5.2) berthing permitted on the stretch of water bounded by the distances measured from, and shown on the board in meters

Definition:

58	DD Name: IENC	Code: catnmk_58	Date accepted: 2001-05-31

Name: (E.5.3) maximum number of vessels permitted to berth abreast

Definition:

59	DD Name: IENC	Code: catnmk_59	Date accepted: 2001-05-31

Name: (E.5.4) berthing area reserved for pushing-navigation vessels that are not required to carry blue lights or blue cones

Definition:

60	DD Name: IENC	Code: catnmk_60	Date accepted: 2001-05-31

Name: (E.5.5) berthing area reserved for pushing-navigation vessels that are required to carry one blue light or one blue cone

Definition:

61	DD Name: IENC	Code: catnmk_61	Date accepted: 2001-05-31

Name: (E.5.6) berthing area reserved for pushing-navigation vessels that are required to carry two blue lights or two blue cones

Value   Data Dictionary (DD) Reference

              Definition:

62   DD Name: IENC   Code: catnmk_62   Date accepted: 2001-05-31

              Name: (E.5.7) berthing area reserved for pushing-navigation vessels that are required to carry three blue lights or three blue cones

              Definition:

63   DD Name: IENC   Code: catnmk_63   Date accepted: 2001-05-31

              Name: (E.5.8) berthing area reserved for vessels other than pushing-navigation vessels that are not required to carry blue lights or blue cones

              Definition:

64   DD Name: IENC   Code: catnmk_64   Date accepted: 2001-05-31

              Name: (E.5.9) berthing area reserved for vessels other than for pushing-navigation vessels that are required to carry one blue light or one blue cone

              Definition:

65   DD Name: IENC   Code: catnmk_65   Date accepted: 2001-05-31

              Name: (E.5.10) berthing area reserved for vessels other than for pushing-navigation vessels that are required to carry two blue lights or two blue cones

              Definition:

66   DD Name: IENC   Code: catnmk_66   Date accepted: 2001-05-31

              Name: (E.5.11) berthing area reserved for vessels other than for pushing-navigation vessels that are required to carry three blue lights or three blue cones

              Definition:

67   DD Name: IENC   Code: catnmk_67   Date accepted: 2001-05-31

              Name: (E.5.12) berthing area reserved for all vessels that are not required to carry blue lights or blue cones

              Definition:

68   DD Name: IENC   Code: catnmk_68   Date accepted: 2001-05-31

              Name: (E.5.13) berthing area reserved for all vessels that are required to carry one blue light or one blue cone

Value	Data Dictionary (DD) Reference
	Definition:

69   DD Name: IENC   Code: catnmk_69   Date accepted: 2001-05-31

Name: (E.5.14) berthing area reserved for all vessels that are required to carry two blue lights or two blue cones

Definition:

70   DD Name: IENC   Code: catnmk_70   Date accepted: 2001-05-31

Name: (E.5.15) berthing area reserved for all vessels that are required to carry three blue lights or three blue cones

Definition:

71   DD Name: IENC   Code: catnmk_71   Date accepted: 2001-05-31

Name: (E.6) anchoring or trailing of anchors, cables or chains permitted

Definition:

72   DD Name: IENC   Code: catnmk_72   Date accepted: 2001-05-31

Name: (E.7) making fast to the bank permitted

Definition:

73   DD Name: IENC   Code: catnmk_73   Date accepted: 2001-05-31

Name: (E.7.1) berthing area reserved for loading and unloading of vehicles

Definition:

74   DD Name: IENC   Code: catnmk_74   Date accepted: 2001-05-31

Name: (E.8) turning area

Definition:

75   DD Name: IENC   Code: catnmk_75   Date accepted: 2001-05-31

Name: (E.9a) crossing with secondary waterway ahead

Definition:

76   DD Name: IENC   Code: catnmk_76   Date accepted: 2001-05-31

Name: (E.9b) secondary waterway ahead on the right

Value	Data Dictionary (DD) Reference
	Definition:

77   DD Name: IENC   Code: catnmk_77   Date accepted: 2001-05-31

       Name: (E.9c) secondary waterway ahead on the left

       Definition:

78   DD Name: IENC   Code: catnmk_78   Date accepted: 2001-05-31

       Name: (E.9d) secondary waterway ahead, main waterway on the right

       Definition:

79   DD Name: IENC   Code: catnmk_79   Date accepted: 2001-05-31

       Name: (E.9e) secondary waterway ahead, main waterwar on the left

       Definition:

80   DD Name: IENC   Code: catnmk_80   Date accepted: 2001-05-31

       Name: (E.9f) secondary waterway on the left, main waterway on the right

       Definition:

81   DD Name: IENC   Code: catnmk_81   Date accepted: 2001-05-31

       Name: (E.9g) secondary waterway on the right, main waterway on the left

       Definition:

82   DD Name: IENC   Code: catnmk_82   Date accepted: 2001-05-31

       Name: (E.9h) secondary waterway ahead and on the left, main waterway on the right

       Definition:

83   DD Name: IENC   Code: catnmk_83   Date accepted: 2001-05-31

       Name: (E.9i) secondary waterway ahead and on the right, main waterway on the left

       Definition:

84   DD Name: IENC   Code: catnmk_84   Date accepted: 2001-05-31

       Name: (E.10a) crossing with main waterway ahead

       Definition:

Value	Data Dictionary (DD) Reference

85 DD Name: IENC   Code: catnmk_85   Date accepted: 2001-05-31

Name: (E.10b) main waterway ahead

Definition:

86 DD Name: IENC   Code: catnmk_86   Date accepted: 2001-05-31

Name: (E.10c) junction with main waterway ahead and right

Definition:

87 DD Name: IENC   Code: catnmk_87   Date accepted: 2001-05-31

Name: (E.10d) junction with main waterway ahead and left

Definition:

88 DD Name: IENC   Code: catnmk_88   Date accepted: 2001-05-31

Name: (E.10e) junction with main waterway ahead and right, secondary waterway on the left

Definition:

89 DD Name: IENC   Code: catnmk_89   Date accepted: 2001-05-31

Name: (E.10f) junction with main waterway ahead and left, secondary waterway on the right

Definition:

90 DD Name: IENC   Code: catnmk_90   Date accepted: 2001-05-31

Name: (E.11) end of prohibition or obligation applying to traffic in one direction only, or end of a restriction

Definition:

91 DD Name: IENC   Code: catnmk_91   Date accepted: 2001-05-31

Name: (E.13) drinking water supply

Definition:

92 DD Name: IENC   Code: catnmk_92   Date accepted: 2001-05-31

Name: (E.14) telephone

Definition:

Value   Data Dictionary (DD) Reference

93   DD Name: IENC   Code: catnmk_93   Date accepted: 2001-05-31

               Name: (E.15) motorized vessels permitted

               Definition:

94   DD Name: IENC   Code: catnmk_94   Date accepted: 2001-05-31

               Name: (E.16) sport and pleasure craft permitted

               Definition:

95   DD Name: IENC   Code: catnmk_95   Date accepted: 2001-05-31

               Name: (E.17) water skiing permitted

               Definition:

96   DD Name: IENC   Code: catnmk_96   Date accepted: 2001-05-31

               Name: (E.18) sailing vessels permitted

               Definition:

97   DD Name: IENC   Code: catnmk_97   Date accepted: 2001-05-31

               Name: (E.19) craft other than motorized vessels or sailing craft permitted

               Definition:

98   DD Name: IENC   Code: catnmk_98   Date accepted: 2001-05-31

               Name: (E.20) use of sailboards permitted

               Definition:

99   DD Name: IENC   Code: catnmk_99   Date accepted: 2001-05-31

               Name: (E.23) possibility of obtaining nautical information by radiotelephone on the
               channel indicated

               Definition:

100   DD Name: IENC   Code: catnmk_100   Date accepted: 2001-05-31

               Name: (E.24) water bikes permitted

               Definition:

Value   Data Dictionary (DD) Reference

101   DD Name: IENC   Code: catnmk_101   Date accepted: 2001-05-31

            Name: (E.21) zone authorized for high speed navigation of small sport and pleasure

            Definition:

102   DD Name: IENC   Code: catnmk_102   Date accepted: 2001-05-31

            Name: (E.22) launching or beaching of vessels permitted

            Definition:

Attribute	category of refuse dump

Acronym: **catrfd**   Code: 17071

Use Type: F

Value Type: L

Data Dictionary (DD) Reference:

DD Name: IENC   Date accepted: 2001-05-31

Definition:

Enumerations

Value   Data Dictionary (DD) Reference

1   DD Name: IENC   Code: catrfd_1   Date accepted: 2001-05-31

            Name: cargo residue/slop

            Definition: A facility where vessels can dispose of cargo residues and/or slops.

2   DD Name: IENC   Code: catrfd_2   Date accepted: 2001-05-31

            Name: waste oil

            Definition: A facility where vessels can dispose of waste oil.

3   DD Name: IENC   Code: catrfd_3   Date accepted: 2001-05-31

            Name: grey/black water

            Definition: A facility where vessels can dispose of grey and/or black waste water.

4   DD Name: IENC   Code: catrfd_4   Date accepted: 2001-05-31

            Name: domestic refuse

            Definition: A facility where vessels can dispose of domstic refuse.

Attribute	category of ship (excluding)

Acronym: **lc_cse**   Code: 18013

Use Type: F

Value Type: L

Data Dictionary (DD) Reference:

DD Name: IENC   Date accepted: 2001-05-31

Definition:

Enumerations

Value   Data Dictionary (DD) Reference

1   DD Name: IENC   Code: lc_cse_1   Date accepted: 2001-05-31

           Name: all types

           Definition:

2   DD Name: IENC   Code: lc_cse_2   Date accepted: 2001-05-31

           Name: other

           Definition:

3   DD Name: IENC   Code: lc_cse_3   Date accepted: 2001-05-31

           Name: non-motorized vessel

           Definition:

5   DD Name: IENC   Code: lc_cse_5   Date accepted: 2001-05-31

           Name: craft

           Definition: a vessel or item of floating equipment

6   DD Name: IENC   Code: lc_cse_6   Date accepted: 2001-05-31

           Name: vessel

           Definition: an inland waterway vessel or sea going ship

Value   Data Dictionary (DD) Reference

7   DD Name: IENC   Code: lc_cse_7   Date accepted: 2001-05-31

             Name: inland waterway vessel

             Definition: a vessel intended solely or mainly for navigation on inland waterways

8   DD Name: IENC   Code: lc_cse_8   Date accepted: 2001-05-31

             Name: sea going ship

             Definition: a vessel certificated for sea-going service

9   DD Name: IENC   Code: lc_cse_9   Date accepted: 2001-05-31

             Name: motor vessel

             Definition: a motor cargo vessel or a motor tanker

10   DD Name: IENC   Code: lc_cse_10   Date accepted: 2001-05-31

             Name: motor tanker

             Definition: a vessel intended for the carriage of goods in fixed tanks and built to navigate independently under its own motive power

11   DD Name: IENC   Code: lc_cse_11   Date accepted: 2001-05-31

             Name: motor cargo vessel

             Definition: a vessel, other than a motor tanker, intended for the carriage of goods and built to navigate independently under its own motive power

12   DD Name: IENC   Code: lc_cse_12   Date accepted: 2001-05-31

             Name: canal barge

             Definition: an inland waterway vessel not exceeding 38.5 m in length and 5.05 m in breadth and usu-ally operating on the Rhine-Rhône-Canal

13   DD Name: IENC   Code: lc_cse_13   Date accepted: 2001-05-31

             Name: tug

             Definition: a vessel specially built to perform towing operations

14   DD Name: IENC   Code: lc_cse_14   Date accepted: 2001-05-31

             Name: pusher

Value	Data Dictionary (DD) Reference		

Definition: a vessel specially built to propel a pushed convoy

| 15 | DD Name: IENC | Code: lc_cse_15 | Date accepted: 2001-05-31 |

Name: barge

Definition: a dumb barge or tank barge

| 16 | DD Name: IENC | Code: lc_cse_16 | Date accepted: 2001-05-31 |

Name: tank barge

Definition: a vessel intended for the carriage of goods in fixed tanks and built to be towed, either hav-ing no motive power of its own or having only sufficient motive power to perform restricted manoeuvres

| 17 | DD Name: IENC | Code: lc_cse_17 | Date accepted: 2001-05-31 |

Name: dumb barge

Definition: a vessel, other than a tank barge, intended for the carriage of goods and built to be towed, either having no motive power of its own or having only sufficient motive power to perform restricted manoeuvres

| 18 | DD Name: IENC | Code: lc_cse_18 | Date accepted: 2001-05-31 |

Name: lighter

Definition: a tank lighter, cargo lighter or ship borne lighter

| 19 | DD Name: IENC | Code: lc_cse_19 | Date accepted: 2001-05-31 |

Name: tank lighter

Definition: a vessel intended for the carriage of goods in fixed tanks, built or specially modified to be pushed, either having no motive power of its own or having only sufficient motive power to perform restricted manoeuvres when not part of a pushed convoy

| 20 | DD Name: IENC | Code: lc_cse_20 | Date accepted: 2001-05-31 |

Name: cargo lighter

Definition: a vessel, other than a tank lighter, intended for the carriage of goods and built or specially modified to be pushed, either having no motive power of its own or having only sufficient motive power to perform restricted manoeuvres when not part of a pushed convoy

| 21 | DD Name: IENC | Code: lc_cse_21 | Date accepted: 2001-05-31 |

Value   Data Dictionary (DD) Reference

             Name: ship borne lighter

             Definition: a lighter built to be carried aboard sea going ships and to navigate on inland
             waterways

22   DD Name: IENC   Code: lc_cse_22   Date accepted: 2001-05-31

             Name: passenger vessel

             Definition: a day trip or cabin vessel constructed and equipped to carry more than 12
             passengers

23   DD Name: IENC   Code: lc_cse_23   Date accepted: 2001-05-31

             Name: passenger sailing vessel

             Definition: a passenger vessel fitted out mainly with a view to propulsion under sail

24   DD Name: IENC   Code: lc_cse_24   Date accepted: 2001-05-31

             Name: day trip vessel

             Definition: a passenger vessel without overnight passenger cabins

25   DD Name: IENC   Code: lc_cse_25   Date accepted: 2001-05-31

             Name: cabin vessel

             Definition: a passenger vessel with overnight passenger cabins

26   DD Name: IENC   Code: lc_cse_26   Date accepted: 2001-05-31

             Name: High-speed vessel

             Definition: a motorised vessel capable of reaching speeds over 40km/h with respect to water

27   DD Name: IENC   Code: lc_cse_27   Date accepted: 2001-05-31

             Name: floating equipment

             Definition: a floating installation carrying working gear such as cranes, dredging equipment,
             pile drivers or elevators

28   DD Name: IENC   Code: lc_cse_28   Date accepted: 2001-05-31

             Name: worksite craft

             Definition: a vessel, appropriately built and equipped for use at worksites, such as a
             reclamation barge, hopper or pontoon barge, pontoon or stone-dumping vessel

Value   Data Dictionary (DD) Reference

29   DD Name: IENC   Code: lc_cse_29   Date accepted: 2001-05-31

       Name: recreational craft

       Definition: a vessel other than a passenger vessel, intended for sport or pleasure

30   DD Name: IENC   Code: lc_cse_30   Date accepted: 2001-05-31

       Name: Dinghy

       Definition: a boat for use in transport, rescue, salvage and work duties

31   DD Name: IENC   Code: lc_cse_31   Date accepted: 2001-05-31

       Name: floating establishment

       Definition: any floating installation not normally intended to be moved, such as a swimming
       bath, dock, jetty or boathouse

32   DD Name: IENC   Code: lc_cse_32   Date accepted: 2001-05-31

       Name: floating object

       Definition: a raft or other structure, object or assembly capable of navigation, not being a
       vessel or floating equipment or establishment

Attribute	category of ship (including)

Acronym: **lc_csi**   Code: 18012

Use Type: F

Value Type: L

<u>Data Dictionary (DD) Reference:</u>

DD Name: IENC   Date accepted: 2001-05-31

Definition:

<u>Enumerations</u>

Value   Data Dictionary (DD) Reference

1   DD Name: IENC   Code: lc_csi_1   Date accepted: 2001-05-31
             Name: all types
             Definition:

2   DD Name: IENC   Code: lc_csi_2   Date accepted: 2001-05-31
             Name: other
             Definition:

3   DD Name: IENC   Code: lc_csi_3   Date accepted: 2001-05-31
             Name: non-motorized vessel
             Definition:

5   DD Name: IENC   Code: lc_csi_5   Date accepted: 2001-05-31
             Name: craft
             Definition: a vessel or item of floating equipment

6   DD Name: IENC   Code: lc_csi_6   Date accepted: 2001-05-31
             Name: vessel
             Definition: an inland waterway vessel or sea going ship

Value   Data Dictionary (DD) Reference

7   DD Name: IENC   Code: lc_csi_7   Date accepted: 2001-05-31

             Name: inland waterway vessel

             Definition: a vessel intended solely or mainly for navigation on inland waterways

8   DD Name: IENC   Code: lc_csi_8   Date accepted: 2001-05-31

             Name: sea going ship

             Definition: a vessel certificated for sea-going service

9   DD Name: IENC   Code: lc_csi_9   Date accepted: 2001-05-31

             Name: motor vessel

             Definition: a motor cargo vessel or a motor tanker

10   DD Name: IENC   Code: lc_csi_10   Date accepted: 2001-05-31

             Name: motor tanker

             Definition: a vessel intended for the carriage of goods in fixed tanks and built to navigate
             independently under its own motive power

11   DD Name: IENC   Code: lc_csi_11   Date accepted: 2001-05-31

             Name: motor cargo vessel

             Definition: a vessel, other than a motor tanker, intended for the carriage of goods and built to
             navigate independently under its own motive power

12   DD Name: IENC   Code: lc_csi_12   Date accepted: 2001-05-31

             Name: canal barge

             Definition: an inland waterway vessel not exceeding 38.5 m in length and 5.05 m in breadth
             and usu-ally operating on the Rhine-Rhône-Canal

13   DD Name: IENC   Code: lc_csi_13   Date accepted: 2001-05-31

             Name: tug

             Definition: a vessel specially built to perform towing operations

14   DD Name: IENC   Code: lc_csi_14   Date accepted: 2001-05-31

             Name: pusher

Value   Data Dictionary (DD) Reference

             Definition: a vessel specially built to propel a pushed convoy

15   DD Name: IENC   Code: lc_csi_15   Date accepted: 2001-05-31

             Name: barge

             Definition: a dumb barge or tank barge

16   DD Name: IENC   Code: lc_csi_16   Date accepted: 2001-05-31

             Name: tank barge

             Definition: a vessel intended for the carriage of goods in fixed tanks and built to be towed, either hav-ing no motive power of its own or having only sufficient motive power to perform restricted manoeuvres

17   DD Name: IENC   Code: lc_csi_17   Date accepted: 2001-05-31

             Name: dumb barge

             Definition: a vessel, other than a tank barge, intended for the carriage of goods and built to be towed, either having no motive power of its own or having only sufficient motive power to perform restricted manoeuvres

18   DD Name: IENC   Code: lc_csi_18   Date accepted: 2001-05-31

             Name: lighter

             Definition: a tank lighter, cargo lighter or ship borne lighter

19   DD Name: IENC   Code: lc_csi_19   Date accepted: 2001-05-31

             Name: tank lighter

             Definition: a vessel intended for the carriage of goods in fixed tanks, built or specially modified to be pushed, either having no motive power of its own or having only sufficient motive power to perform restricted manoeuvres when not part of a pushed convoy

20   DD Name: IENC   Code: lc_csi_20   Date accepted: 2001-05-31

             Name: cargo lighter

             Definition: a vessel, other than a tank lighter, intended for the carriage of goods and built or specially modified to be pushed, either having no motive power of its own or having only sufficient motive power to perform restricted manoeuvres when not part of a pushed convoy

21   DD Name: IENC   Code: lc_csi_21   Date accepted: 2001-05-31

Value   Data Dictionary (DD) Reference

               Name: ship borne lighter

               Definition: a lighter built to be carried aboard sea going ships and to navigate on inland
               waterways

22   DD Name: IENC   Code: lc_csi_22   Date accepted: 2001-05-31

               Name: passenger vessel

               Definition: a day trip or cabin vessel constructed and equipped to carry more than 12
               passengers

23   DD Name: IENC   Code: lc_csi_23   Date accepted: 2001-05-31

               Name: passenger sailing vessel

               Definition: a passenger vessel fitted out mainly with a view to propulsion under sail

24   DD Name: IENC   Code: lc_csi_24   Date accepted: 2001-05-31

               Name: day trip vessel

               Definition: a passenger vessel without overnight passenger cabins

25   DD Name: IENC   Code: lc_csi_25   Date accepted: 2001-05-31

               Name: cabin vessel

               Definition: a passenger vessel with overnight passenger cabins

26   DD Name: IENC   Code: lc_csi_26   Date accepted: 2001-05-31

               Name: High-speed vessel

               Definition: a motorised vessel capable of reaching speeds over 40km/h with respect to water

27   DD Name: IENC   Code: lc_csi_27   Date accepted: 2001-05-31

               Name: floating equipment

               Definition: a floating installation carrying working gear such as cranes, dredging equipment,
               pile drivers or elevators

28   DD Name: IENC   Code: lc_csi_28   Date accepted: 2001-05-31

               Name: worksite craft

               Definition: a vessel, appropriately built and equipped for use at worksites, such as a
               reclamation barge, hopper or pontoon barge, pontoon or stone-dumping vessel

Value   Data Dictionary (DD) Reference

29   DD Name: IENC   Code: lc_csi_29   Date accepted: 2001-05-31

        Name: recreational craft

        Definition: a vessel other than a passenger vessel, intended for sport or pleasure

30   DD Name: IENC   Code: lc_csi_30   Date accepted: 2001-05-31

        Name: Dinghy

        Definition: a boat for use in transport, rescue, salvage and work duties

31   DD Name: IENC   Code: lc_csi_31   Date accepted: 2001-05-31

        Name: floating establishment

        Definition: any floating installation not normally intended to be moved, such as a swimming bath, dock, jetty or boathouse

32   DD Name: IENC   Code: lc_csi_32   Date accepted: 2001-05-31

        Name: floating object

        Definition: a raft or other structure, object or assembly capable of navigation, not being a vessel or floating equipment or establishment

Attribute	Category of signal station, traffic

Acronym: **catsit**   Code: 17002

Use Type: F

Value Type: L

Data Dictionary (DD) Reference:

DD Name: IENC   Date accepted: 2001-05-31

Definition:

Enumerations

Value   Data Dictionary (DD) Reference

2   DD Name: IENC   Code: catsit_2   Date accepted: 2001-05-31

           Name: port entry and departure

           Definition: a signal station for the control of vessels entering or leaving a port.

6   DD Name: IENC   Code: catsit_6   Date accepted: 2001-05-31

           Name: lock

           Definition: a signal station for the control of vessels entering or leaving a lock.

8   DD Name: IENC   Code: catsit_8   Date accepted: 2001-05-31

           Name: bridge passage

           Definition: a signal station for the control of vessels wishing to pass under a bridge.

10   DD Name: IENC   Code: catsit_10   Date accepted: 2001-05-31

           Name: oncomig traffic indication

           Definition: indicates the oncoming traffic on an inland waterway

Attribute	Category of signal station, warning

Acronym: **catsiw**   Code: 17003

Use Type: F

Value Type: L

Data Dictionary (DD) Reference:

DD Name: IENC   Date accepted: 2001-05-31

Definition:

Enumerations

Value   Data Dictionary (DD) Reference

15   DD Name: IENC   Code: catsiw_15   Date accepted: 2001-05-31

            Name: high water mark

            Definition: An indication of the official high water level.

16   DD Name: IENC   Code: catsiw_16   Date accepted: 2001-05-31

            Name: vertical clearance indication

            Definition: An indication of the verticl clearance of a bridge, overhead cable, etc.

18   DD Name: IENC   Code: catsiw_18   Date accepted: 2001-05-31

            Name: depth indication

            Definition: An indication of the local depth.

Attribute	Category of time and behaviour

Acronym: **cattab**   Code: 17092

Use Type: F

Value Type: E

Data Dictionary (DD) Reference:

DD Name: IENC   Date accepted: 2001-05-31

Definition:

Enumerations

Value   Data Dictionary (DD) Reference

1   DD Name: IENC   Code: cattab_1   Date accepted: 2001-05-31

            Name: operational period

            Definition: being in a position or adjustment to permit passage or to perform an operation

2   DD Name: IENC   Code: cattab_2   Date accepted: 2001-05-31

            Name: non-operational period

            Definition: being in a position or adjustment to prevent passage

Attribute	Category of vehicle transfer

Acronym: **catvtr**   Code: 17091

Use Type: F

Value Type: L

<u>Data Dictionary (DD) Reference:</u>

DD Name: IENC   Date accepted: 2001-05-31

Definition:

<u>Enumerations</u>

Value   Data Dictionary (DD) Reference

1   DD Name: IENC   Code: catvtr_1   Date accepted: 2001-05-31

             Name: official

             Definition: Of or relating to an office or a post of authority

2   DD Name: IENC   Code: catvtr_2   Date accepted: 2001-05-31

             Name: private

             Definition: Belonging to a particular person or persons, as opposed to the public or the government

3   DD Name: IENC   Code: catvtr_3   Date accepted: 2001-05-31

             Name: suitable for car cranes

             Definition: Vehicle transfer location is suitable for car cranes

4   DD Name: IENC   Code: catvtr_4   Date accepted: 2001-05-31

             Name: suitable for car planks

             Definition: Vehicle transfer location is suitable for car planks

5   DD Name: IENC   Code: catvtr_5   Date accepted: 2001-05-31

             Name: permission required

Value   Data Dictionary (DD) Reference

             Definition: The transfer of a vehicle requires permission.

6   DD Name: IENC   Code: catvtr_6   Date accepted: 2001-05-31

             Name: locked gate

             Definition: The access to the public road is locked.

Attribute	Category of waterway gauge

Acronym: **catgag**   Code: 17078

Use Type: F

Value Type: L

Data Dictionary (DD) Reference:

DD Name: IENC   Date accepted: 2001-05-31

Definition:

Enumerations

Value   Data Dictionary (DD) Reference

1   DD Name: IENC   Code: catgag_1   Date accepted: 2001-05-31

          Name: water level staff / pole

          Definition: level indicator consisting of a calibrated staff/pole and the associated bench mark.
          (DIN 4049 Section 3, Oct. 1994)

2   DD Name: IENC   Code: catgag_2   Date accepted: 2001-05-31

          Name: recording water level gauge

          Definition: analog or digital water level measuring and recording device. (adopted from DIN
          4049 – Section 3, Oct. 1994)

3   DD Name: IENC   Code: catgag_3   Date accepted: 2001-05-31

          Name: recording water level gauge with remote access

          Definition: recording water level gauge providing information remotely by any method
          (adopted from DIN 4049 – Section 3, Oct. 1994)

4   DD Name: IENC   Code: catgag_4   Date accepted: 2001-05-31

          Name: recording water level gauge with external indicator

          Definition: recording gauge providing information of the water level via a large external
          indicator (adopted from DIN 4049 – Section 3, Oct. 1994)

Value   Data Dictionary (DD) Reference

5   DD Name: IENC   Code: catgag_5   Date accepted: 2001-05-31

             Name: recording water level gauge with remote access and remote indicator

             Definition: recording gauge providing information remotely by any method and providing
             informa#tion of the water level via a large external indicator. (adopted from DIN 4049 –
             Section 3, Oct. 1994)

Attribute	class of dangerous cargo

Acronym: **clsdng**   Code: 17055

Use Type: F

Value Type: E

Data Dictionary (DD) Reference:

DD Name: IENC   Date accepted: 2001-05-31

Definition:

Enumerations

Value   Data Dictionary (DD) Reference

1   DD Name: IENC   Code: clsdng_1   Date accepted: 2001-05-31

            Name: one blue light / cone

            Definition: Vessels carrying out transport operations involving certain flammable substances

2   DD Name: IENC   Code: clsdng_2   Date accepted: 2001-05-31

            Name: two blue lights / cones

            Definition: Vessels carrying out transport operations involving certain substances
            constituting health hazards

3   DD Name: IENC   Code: clsdng_3   Date accepted: 2001-05-31

            Name: three blue lights / cones

            Definition: Vessels carrying out transport operations involving certain explosives

4   DD Name: IENC   Code: clsdng_4   Date accepted: 2001-05-31

            Name: no blue light / cone

            Definition:

Attribute	Current velocity at high water level

Acronym: **curvhw**   Code: 17095

Use Type: F

Value Type: F

Data Dictionary (DD) Reference:

DD Name: IENC   Date accepted: 2001-05-31

Definition: The rate of travel of a current at a high water level

Attribute	Current velocity at low water level

Acronym: **curvlw**   Code: 17096

Use Type: F

Value Type: F

Data Dictionary (DD) Reference:

DD Name: IENC   Date accepted: 2001-05-31

Definition: The rate of travel of a current at a low water level

Attribute	Current velocity at mean water level

Acronym: **curvmw**

Code: 17097

Use Type: F

Value Type: F

Data Dictionary (DD) Reference:

DD Name: IENC

Date accepted: 2001-05-31

Definition: The rate of travel of a current at a mean water level

Attribute	Current velocity at other water level

Acronym: **curvow**   Code: 17098

Use Type: F

Value Type: F

Data Dictionary (DD) Reference:

DD Name: IENC   Date accepted: 2001-05-31

Definition: The rate of travel of a current at an other water level

Attribute	Description of legal conditions

Acronym: **lg_des**   Code: 18010

Use Type: F

Value Type: T

Data Dictionary (DD) Reference:

DD Name: IENC   Date accepted: 2001-05-31

Definition: Additional textual information which is related to the numerical description of the
                  particular arti-cle/clause of the applicable law/regulation

Attribute	direction of impact

Acronym: **dirimp**   Code: 17056

Use Type: F

Value Type: L

Data Dictionary (DD) Reference:

DD Name: IENC   Date accepted: 2001-05-31

Definition:

Enumerations

Value   Data Dictionary (DD) Reference

1   DD Name: IENC   Code: dirimp_1   Date accepted: 2001-05-31

          Name: upstream

          Definition: toward the source of a stream

2   DD Name: IENC   Code: dirimp_2   Date accepted: 2001-05-31

          Name: downstream

          Definition: in the direction of flow of a current or stream

3   DD Name: IENC   Code: dirimp_3   Date accepted: 2001-05-31

          Name: to the left bank

          Definition: toward the left side of the bank

4   DD Name: IENC   Code: dirimp_4   Date accepted: 2001-05-31

          Name: to the right bank

          Definition: toward the right side of the bank

Attribute	Distance from notice mark, first

Acronym: **disbk1**   Code: 17057

Use Type: F

Value Type: F

Data Dictionary (DD) Reference:

DD Name: IENC   Date accepted: 2001-05-31

Definition: Minimum distance of the impact of an area, which is signed by notice marks. The
                  distance is measured from the notice mark rectangular to the bank

Attribute	Distance from notice mark, second

Acronym: **disbk2**   Code: 17058

Use Type: F

Value Type: F

Data Dictionary (DD) Reference:

DD Name: IENC   Date accepted: 2001-05-31

Definition: Maximum distance of the impact of an area, which is signed by notice marks. The distance is measured from the notice mark rectangular to the bank

Attribute	Distance of impact, downstream

Acronym: **disipd**   Code: 17060

Use Type: F

Value Type: F

Data Dictionary (DD) Reference:

DD Name: IENC   Date accepted: 2001-05-31

Definition: Downstream distance of the impact of an area, which is signed by notice marks. The
                      distance is normally given on an additional mark left and/or right of the notice mark

Attribute	Distance of impact, upstream

Acronym: **disipu**   Code: 17059

Use Type: F

Value Type: F

<u>Data Dictionary (DD) Reference:</u>

DD Name: IENC   Date accepted: 2001-05-31

Definition: Upstream distance of the impact of an area, which is signed by notice marks. The
                  distance is normally given on an additional mark left and/or right of the notice mark

Attribute	Draught range value 1

Acronym: **lc_dr1**   Code: 18022

Use Type: F

Value Type: F

Data Dictionary (DD) Reference:

DD Name: IENC   Date accepted: 2001-05-31

Definition: The minimum value of the draught range the particular article/clause of the applicable law/regulation is dealing with

Attribute	Draught range value 2

Acronym: **lc_dr2**   Code: 18023

Use Type: F

Value Type: F

Data Dictionary (DD) Reference:

DD Name: IENC   Date accepted: 2001-05-31

Definition: The maximum value of the draught range the particular article/clause of the applicable
                  law/regulation is dealing with

Attribute	Elevation 1 of surface (m)

Acronym: **eleva1**   Code: 17061

Use Type: F

Value Type: F

Data Dictionary (DD) Reference:

DD Name: IENC   Date accepted: 2001-05-31

Definition: The minimum (shoalest) value of an elevation range.

Attribute	Elevation 2 of surface (m)

Acronym: **eleva2**   Code: 17062

Use Type: F

Value Type: F

Data Dictionary (DD) Reference:

DD Name: IENC   Date accepted: 2001-05-31

Definition: The maximum (highest) value of an elevation range

Attribute	Function of legal conditions

Acronym: **lg_fnc**   Code: 18009

Use Type: F

Value Type: L

Data Dictionary (DD) Reference:

DD Name: IENC   Date accepted: 2001-05-31

Definition:

Enumerations

Value   Data Dictionary (DD) Reference

1   DD Name: IENC   Code: lg_fnc_1   Date accepted: 2001-05-31

             Name: other

             Definition:

2   DD Name: IENC   Code: lg_fnc_2   Date accepted: 2001-05-31

             Name: prohibited

             Definition:

3   DD Name: IENC   Code: lg_fnc_3   Date accepted: 2001-05-31

             Name: prohibited, with exceptions

             Definition:

4   DD Name: IENC   Code: lg_fnc_4   Date accepted: 2001-05-31

             Name: permitted

             Definition:

5   DD Name: IENC   Code: lg_fnc_5   Date accepted: 2001-05-31

             Name: permitted, with exceptions

             Definition:

Value   Data Dictionary (DD) Reference

6   DD Name: IENC   Code: lg_fnc_6   Date accepted: 2001-05-31

             Name: recommended

             Definition:

7   DD Name: IENC   Code: lg_fnc_7   Date accepted: 2001-05-31

             Name: not recommended

             Definition:

Attribute	Function of notice mark

Acronym: **fnctnm**   Code: 17063

Use Type: F

Value Type: E

Data Dictionary (DD) Reference:

DD Name: IENC   Date accepted: 2001-05-31

Definition:

Enumerations

Value   Data Dictionary (DD) Reference

1   DD Name: IENC   Code: fnctnm_1   Date accepted: 2001-05-31

             Name: prohibition mark

             Definition: marks which indicate a prohibition

2   DD Name: IENC   Code: fnctnm_2   Date accepted: 2001-05-31

             Name: regulation mark

             Definition: marks which indicate a regulation

3   DD Name: IENC   Code: fnctnm_3   Date accepted: 2001-05-31

             Name: restriction mark

             Definition: marks which indicate a restriction

4   DD Name: IENC   Code: fnctnm_4   Date accepted: 2001-05-31

             Name: recommendation mark

             Definition: marks which indicate a recommendation

5   DD Name: IENC   Code: fnctnm_5   Date accepted: 2001-05-31

             Name: information mark

             Definition: marks with general information

Attribute	Height/length units

Acronym: **hunits**   Code: 17103

Use Type: F

Value Type: E

<u>Data Dictionary (DD) Reference:</u>

DD Name: IENC   Date accepted: 2001-05-31

Definition:

<u>Enumerations</u>

Value   Data Dictionary (DD) Reference

1   DD Name: IENC   Code: hunits_1   Date accepted: 2001-05-31

             Name: metres

             Definition: heights/lengths are specified in metres (SI units of length)

2   DD Name: IENC   Code: hunits_2   Date accepted: 2001-05-31

             Name: feet

             Definition: heights/lengths are specified in feet (imperial units of length)

3   DD Name: IENC   Code: hunits_3   Date accepted: 2001-05-31

             Name: kilometres

             Definition: heights/lengths are specified in kilometres (1000 metres)

4   DD Name: IENC   Code: hunits_4   Date accepted: 2001-05-31

             Name: hectometres

             Definition: heights/lengths are specified in hectometres (100 metres)

5   DD Name: IENC   Code: hunits_5   Date accepted: 2001-05-31

             Name: statute miles

             Definition: heights/lengths are specified in statue (land) miles

Value   Data Dictionary (DD) Reference

6   DD Name: IENC   Code: hunits_6   Date accepted: 2001-05-31

             Name: nautical miles

             Definition: heights/lengths are specified in nautical (sea) miles

Attribute	Horizontal clearance length

Acronym: **horcll**   Code: 17074

Use Type: F

Value Type: F

Data Dictionary (DD) Reference:

DD Name: IENC   Date accepted: 2001-05-31

Definition: The length of an object, such as a lock or basin, which is available for safe navigation.
                  This may, or may not, be the same as the total physical length (HORLEN) of the object

Attribute	Horizontal clearance width

Acronym: **horclw**   Code: 17075

Use Type: F

Value Type: F

Data Dictionary (DD) Reference:

DD Name: IENC   Date accepted: 2001-05-31

Definition: The width of an object, such as a lock or basin, which is available for safe navigation.
                   This may, or may not, be the same as the total physical width (HORWID) of the object

Attribute	Length range value 1

Acronym: **lc_lg1**

Code: 18020

Use Type: F

Value Type: F

Data Dictionary (DD) Reference:

DD Name: IENC

Date accepted: 2001-05-31

Definition: The minimum value of the length range the particular article/clause of the applicable law/regulation is dealing with

Attribute	Length range value 2

Acronym: **lc_lg2**   Code: 18021

Use Type: F

Value Type: F

Data Dictionary (DD) Reference:

DD Name: IENC   Date accepted: 2001-05-31

Definition: The maximum value of the length range the particular article/clause of the applicable
                      law/regulation is dealing with

Attribute	Marks navigational - System of

Acronym: **marsys**   Code: 17009

Use Type: F

Value Type: E

Data Dictionary (DD) Reference:

DD Name: IENC   Date accepted: 2001-05-31

Definition:

Enumerations

Value   Data Dictionary (DD) Reference

1   DD Name: IENC   Code: marsys_1   Date accepted: 2001-05-31

             Name: IALA A

             Definition: navigational aids conform to the International Association of Lighthouse
             Authorities - IALA A system.

2   DD Name: IENC   Code: marsys_2   Date accepted: 2001-05-31

             Name: IALA B

             Definition: navigational aids conform to the International Association of Lighthouse
             Authorities - IALA B system.

9   DD Name: IENC   Code: marsys_9   Date accepted: 2001-05-31

             Name: no system

             Definition: navigational aids do not conform to any defined system.

10   DD Name: IENC   Code: marsys_10   Date accepted: 2001-05-31

             Name: other sytem

             Definition: navigational aids conform to a defined system other than International
             Association of Lighthouse Authorities -IALA.

11   DD Name: IENC   Code: marsys_11   Date accepted: 2001-05-31

Value   Data Dictionary (DD) Reference

             Name: CEVNI

             Definition: navigational aids conform to the European Code for Inland Waterways of
             UN/ECE.

12   DD Name: IENC   Code: marsys_12   Date accepted: 2001-05-31

             Name: Russian inland waterway regulations

             Definition: navigational aids conform to the Russian inland waterway regulations.

Attribute	Maximal permitted beam

Acronym: **lg_bme**   Code: 18003

Use Type: F

Value Type: F

Data Dictionary (DD) Reference:

DD Name: IENC   Date accepted: 2001-05-31

Definition: The maximal permitted beam (width of a ship's hull) of a vessel or convoy according to
                   the particular article/clause of the applicable law/regulation

Attribute	Maximal permitted draught

Acronym: **lg_drt**   Code: 18005

Use Type: F

Value Type: F

<u>Data Dictionary (DD) Reference:</u>

DD Name: IENC   Date accepted: 2001-05-31

Definition: The maximal permitted draught of a vessel or convoy according to the particular
                   article/clause of the applicable law/regulation

Attribute	Maximal permitted length

Acronym: **lg_lgs**   Code: 18004

Use Type: F

Value Type: F

<u>Data Dictionary (DD) Reference:</u>

DD Name: IENC   Date accepted: 2001-05-31

Definition: The maximal permitted length of a vessel or convoy according to the particular
                   article/clause of the applicable law/regulation

Attribute	related issue

Acronym: **lg_rel**   Code: 18008

Use Type: F

Value Type: L

Data Dictionary (DD) Reference:

DD Name: IENC   Date accepted: 2001-05-31

Definition:

Enumerations

Value   Data Dictionary (DD) Reference

1   DD Name: IENC   Code: lg_rel_1   Date accepted: 2001-05-31

        Name: other

        Definition:

2   DD Name: IENC   Code: lg_rel_2   Date accepted: 2001-05-31

        Name: usage of waterway

        Definition:

3   DD Name: IENC   Code: lg_rel_3   Date accepted: 2001-05-31

        Name: carriage of equipment

        Definition:

4   DD Name: IENC   Code: lg_rel_4   Date accepted: 2001-05-31

        Name: task,operation

        Definition:

Attribute	Maximal permitted speed

Acronym: **lg_spd**   Code: 18001

Use Type: F

Value Type: F

Data Dictionary (DD) Reference:

DD Name: IENC   Date accepted: 2001-05-31

Definition: The maximal permitted vessel speed according to the particular article/clause of the
                   applicable law/regulation

Attribute	Maximal permitted water displacement

Acronym: **lg_wdp**   Code: 18006

Use Type: F

Value Type: F

Data Dictionary (DD) Reference:

DD Name: IENC   Date accepted: 2001-05-31

Definition: The maximal permitted water displacement of a vessel or convoy according to the
                   particular article/clause of the applicable law/regulation

Attribute	Name of other locally relevant water level

Acronym: **othnam**   Code: 17087

Use Type: F

Value Type: T

Data Dictionary (DD) Reference:

DD Name: IENC   Date accepted: 2001-05-31

Definition: Name of the water level, which is used for the attribute othwat (value at other locally
                   relevant water level) including version identification, for example year of issue or period

Attribute	Name of relevant high water level

Acronym: **hignam**   Code: 17081

Use Type: F

Value Type: T

<u>Data Dictionary (DD) Reference:</u>

DD Name: IENC   Date accepted: 2001-05-31

Definition: Name of the water level, which is used for the attribute higwat (value at relevant high
                  water level) including version identification, for example year of issue or period

Attribute	Name of relevant low water level

Acronym: **lownam**   Code: 17083

Use Type: F

Value Type: T

Data Dictionary (DD) Reference:

DD Name: IENC   Date accepted: 2001-05-31

Definition: Name of the water level, which is used for the attribute lowwat (value at relevant low
                 water level) including version identification, for example year of issue or period

Attribute	Name of relevant mean water level

Acronym: **meanam**   Code: 17085

Use Type: F

Value Type: T

Data Dictionary (DD) Reference:

DD Name: IENC   Date accepted: 2001-05-31

Definition: Name of the water level, which is used for the attribute mawat (value at relevant mean
                   water level) including version identification, for example year of issue or period

Attribute	Name of Sounding datum reference level

Acronym: **sdrlev**   Code: 17089

Use Type: F

Value Type: T

Data Dictionary (DD) Reference:

DD Name: IENC   Date accepted: 2001-05-31

Definition: Name of the water level depth values are referred to

Attribute	Name of vertical river datum reference level

Acronym: **vcrlev**   Code: 17090

Use Type: F

Value Type: T

Data Dictionary (DD) Reference:

DD Name: IENC   Date accepted: 2001-05-31

Definition: Name of the water level vertical clearance values are referred to

Attribute	Publication reference

Acronym: **lg_pbr**   Code: 18011

Use Type: F

Value Type: T

Data Dictionary (DD) Reference:

DD Name: IENC   Date accepted: 2001-05-31

Definition: Waterway or waterway section for which a juridical regulation with respect to the
                  maximum permitted vessel dimensions exists

Attribute	Reference gravitational level

Acronym: **reflev**   Code: 17088

Use Type: F

Value Type: E

Data Dictionary (DD) Reference:

DD Name: IENC   Date accepted: 2001-05-31

Definition:

Enumerations

Value   Data Dictionary (DD) Reference

1   DD Name: IENC   Code: reflev_1   Date accepted: 2001-05-31

           Name: Baltic datum

           Definition: Baltic Datum (Baltic Hights System) - The unified State system for absolute
           hights reckoning from Kronshtadt Tide-gauge Datum that is accepted in Russian
           Federation.(Hydrographic Terminology Dictionary, HDNO, 1984)-

2   DD Name: IENC   Code: reflev_2   Date accepted: 2001-05-31

           Name: Adriatic level

           Definition: The average height of the surface of the Adriatic sea at the tide station of Trieste
           in Italy.

3   DD Name: IENC   Code: reflev_3   Date accepted: 2001-05-31

           Name: Amsterdam Ordnance Datum (NAP)

           Definition: Dutch gravitational reference level that is approximately the avarage summer
           height of the North Sea.

4   DD Name: IENC   Code: reflev_4   Date accepted: 2001-05-31

           Name: Mean Sea Level

Value   Data Dictionary (DD) Reference

Definition: (MSL) - the average height of the surface of the sea at a tide station for all stages of the tide over a 19-year period, usually determined from hourly height readings measured from a fixed predetermined reference level. (IHO Dictionary, S-32, 5th Edition, 3156)

5   DD Name: IENC   Code: reflev_5   Date accepted: 2001-05-31

Name: Other datum

Definition:

6   DD Name: IENC   Code: reflev_6   Date accepted: 2001-05-31

Name: National Geodetic Vertical Datum - NGVD29

Definition: The name, after May 10, 1973, of the Sea Level Datum of 1929.

7   DD Name: IENC   Code: reflev_7   Date accepted: 2001-05-31

Name: North American Vertical Datum - NAVD88

Definition: The vertical control datum established in 1991 by the minimum-constraint adjustment of the Canadian-Mexican-U.S. leveling observations.

8   DD Name: IENC   Code: reflev_8   Date accepted: 2001-05-31

Name: Mean sea level 1912

Definition: A vertical control datum established for vertical control in the United States by the general adjustment of 1912.

9   DD Name: IENC   Code: reflev_9   Date accepted: 2001-05-31

Name: Mean sea level 1929

Definition: A vertical control datum established for vertical control in the United States by the general adjustment of 1929.

Attribute	Restriction

Acronym: **restrn**   Code: 17004

Use Type: F

Value Type: L

Data Dictionary (DD) Reference:

DD Name: IENC   Date accepted: 2001-05-31

Definition:

Enumerations

Value   Data Dictionary (DD) Reference

1   DD Name: IENC   Code: restrn_1   Date accepted: 2001-05-31

          Name: anchoring prohibited

          Definition: an area within which anchoring is not permitted.

2   DD Name: IENC   Code: restrn_2   Date accepted: 2001-05-31

          Name: anchoring restricted

          Definition: a specified area designated by appropriate authority, within which anchoring is
          restricted in accordance with certain specified conditions.

7   DD Name: IENC   Code: restrn_7   Date accepted: 2001-05-31

          Name: entry prohibited

          Definition: an area within which navigation and/or anchoring is prohibited. (adapted from IHO
          Dictionary, S-32, 5th Edition, 4044)

8   DD Name: IENC   Code: restrn_8   Date accepted: 2001-05-31

          Name: entry restricted

          Definition: a specified area designated by appropriate authority, within which navigation is
          restricted in accordance with certain specified conditions. (adapted from IHO Dictionary, S-32,
          5th Edition, 4366)

Value	Data Dictionary (DD) Reference

13 DD Name: IENC   Code: restrn_13   Date accepted: 2001-05-31

Name: no wake

Definition: mariners must adjust the speed of their vessels to reduce the wave or wash which may cause erosion or disturb moored vessels.

14 DD Name: IENC   Code: restrn_14   Date accepted: 2001-05-31

Name: area to be avoided

Definition: an IMO designated area to be avoided, defined as a routeing measure. (adapted from IHO Chart Specifications, M-4, 435.7)

27 DD Name: IENC   Code: restrn_27   Date accepted: 2001-05-31

Name: speed restricted

Definition: an area within which speed is restricted.

28 DD Name: IENC   Code: restrn_28   Date accepted: 2001-05-31

Name: overtaking prohibited

Definition: a specified area designated by appropriate authority, within which overtaking is generally prohibited

29 DD Name: IENC   Code: restrn_29   Date accepted: 2001-05-31

Name: overtaking of convoys by convoys prohibited

Definition: a specified area designated by appropriate authority, within which overtaking between convoys prohibited

30 DD Name: IENC   Code: restrn_30   Date accepted: 2001-05-31

Name: passing or overtaking prohibited

Definition: a specified area designated by appropriate authority, within which passing or overtaking is generally prohibited

31 DD Name: IENC   Code: restrn_31   Date accepted: 2001-05-31

Name: berthing prohibited

Definition: a specified area designated by appropriate authority, within which vessels, assemblies of floating material or floating establishments may not berth.

32 DD Name: IENC   Code: restrn_32   Date accepted: 2001-05-31

Value   Data Dictionary (DD) Reference

Name: berthing restricted

Definition: a specified area designated by appropriate authority, within which berthing is restricted

33   DD Name: IENC   Code: restrn_33   Date accepted: 2001-05-31

Name: making fast prohibited

Definition: a specified area designated by appropriate authority, within which vessels, assemblies of floating material or floating establishments may not make fast to the bank.

34   DD Name: IENC   Code: restrn_34   Date accepted: 2001-05-31

Name: making fast restricted

Definition: a specified area designated by appropriate authority, within which making fast to the bank is restricted

35   DD Name: IENC   Code: restrn_35   Date accepted: 2001-05-31

Name: turning prohibited

Definition: a specified area designated by appropriate authority, within which all turning is generally prohibited

36   DD Name: IENC   Code: restrn_36   Date accepted: 2001-05-31

Name: restricted fairway depth

Definition: an area within which the fairway depth is restricted.

Attribute	Type of Ship

Acronym: **shptyp**   Code: 33066

Use Type: F

Value Type: E

Data Dictionary (DD) Reference:

DD Name: IENC   Date accepted: 2001-05-31

Definition:

Enumerations

Value   Data Dictionary (DD) Reference

1   DD Name: IENC   Code: shptyp_1   Date accepted: 2001-05-31

          Name: general cargo vessel

          Definition: a vessel which is designed for carrying general cargo, e.g. boxes, sacks.

2   DD Name: IENC   Code: shptyp_2   Date accepted: 2001-05-31

          Name: container vessel

          Definition: a vessel which is designed for carrying containers.

3   DD Name: IENC   Code: shptyp_3   Date accepted: 2001-05-31

          Name: tanker

          Definition: a vessel which is designed for carrying liquid goods, e.g. oil or water.

4   DD Name: IENC   Code: shptyp_4   Date accepted: 2001-05-31

          Name: sailing vessel

          Definition: a vessel that is powered by the wind; often having several masts.

5   DD Name: IENC   Code: shptyp_5   Date accepted: 2001-05-31

          Name: fishing vessel

          Definition: a vessel that is used and equipped for the fishing of living aquatic resources.

Value   Data Dictionary (DD) Reference

| 6 | DD Name: IENC | Code: shptyp_6 | Date accepted: 2001-05-31 |

Name: special purpose vessel.

Definition: a vessel that fulfills special purposes e.g. hovercrafts, pilot boats

| 7 | DD Name: IENC | Code: shptyp_7 | Date accepted: 2001-05-31 |

Name: man of War

Definition: armed naval vessel.

| 8 | DD Name: IENC | Code: shptyp_8 | Date accepted: 2001-05-31 |

Name: submarine

Definition: a vessel that is capable of operating for an extended period of time underwater.

| 9 | DD Name: IENC | Code: shptyp_9 | Date accepted: 2001-05-31 |

Name: high speed craft

Definition:

| 10 | DD Name: IENC | Code: shptyp_10 | Date accepted: 2001-05-31 |

Name: bulk carrier

Definition: a vessel which is designed for carrying bulk goods, e.g. coal, ore or grain.

| 11 | DD Name: IENC | Code: shptyp_11 | Date accepted: 2001-05-31 |

Name: seaplane

Definition: airplane designed to take off from and alight on water.

| 12 | DD Name: IENC | Code: shptyp_12 | Date accepted: 2001-05-31 |

Name: tugboat

Definition: a powerful small boat designed to pull or push larger ships or powerless barges.

| 13 | DD Name: IENC | Code: shptyp_13 | Date accepted: 2001-05-31 |

Name: passenger vessel

Definition: a vessel which is designed for carrying passengers and which serves mainly as cruise vessel.

Value   Data Dictionary (DD) Reference

14   DD Name: IENC   Code: shptyp_14   Date accepted: 2001-05-31

          Name: ferry

          Definition: a vessel which is designed for carrying passengers, and sometimes their
          vehicles, on scheduled services.

15   DD Name: IENC   Code: shptyp_15   Date accepted: 2001-05-31

          Name: boat

          Definition: a small vessel.

Attribute	Speed range value 1

Acronym: **lc_sp1**   Code: 18024

Use Type: F

Value Type: F

Data Dictionary (DD) Reference:

DD Name: IENC   Date accepted: 2001-05-31

Definition: The minimum value of the speed range the particular article/clause of the applicable law/regulation is dealing with

Attribute	Speed range value 2

Acronym: **lc_sp2**   Code: 18025

Use Type: F

Value Type: F

Data Dictionary (DD) Reference:

DD Name: IENC   Date accepted: 2001-05-31

Definition: The maximum value of the speed range the particular article/clause of the applicable law/regulation is dealing with

Attribute	speed reference

Acronym: **lg_spr**   Code: 18002

Use Type: F

Value Type: L

Data Dictionary (DD) Reference:

DD Name: IENC   Date accepted: 2001-05-31

Definition:

Enumerations

Value   Data Dictionary (DD) Reference

1   DD Name: IENC   Code: lg_spr_1   Date accepted: 2001-05-31

            Name: other

            Definition:

2   DD Name: IENC   Code: lg_spr_2   Date accepted: 2001-05-31

            Name: speed over ground

            Definition: The vessel's actual speed, determined by dividing the distance between
            successive fixes by the time between the fixes

3   DD Name: IENC   Code: lg_spr_3   Date accepted: 2001-05-31

            Name: speed through water

            Definition: The vessel's actual speed, determined by substracting the speed over ground by
            the current speed

Attribute	Time Schedule Reference

Acronym: **schref**   Code: 17093

Use Type: F

Value Type: T

Data Dictionary (DD) Reference:

DD Name: IENC   Date accepted: 2001-05-31

Definition: The string encodes the file name of an external file

Attribute	transshipping goods

Acronym: **trshgd**   Code: 17076

Use Type: F

Value Type: L

Data Dictionary (DD) Reference:

DD Name: IENC   Date accepted: 2001-05-31

Definition:

Enumerations

Value   Data Dictionary (DD) Reference

1   DD Name: IENC   Code: trshgd_1   Date accepted: 2001-05-31

        Name: containers

        Definition: boxes for cargo transport with standardized dimensions.

2   DD Name: IENC   Code: trshgd_2   Date accepted: 2001-05-31

        Name: bulk goods

        Definition: unpacked bulk cargo in the same or a similar kind of nature (homogeneous).

3   DD Name: IENC   Code: trshgd_3   Date accepted: 2001-05-31

        Name: oil

        Definition: Mineral oil or liquid petrolatum, a by-product in the distillation of petroleum to produce gasoline.

4   DD Name: IENC   Code: trshgd_4   Date accepted: 2001-05-31

        Name: fuel

        Definition: liquid fuel, e.g. gasoline, diesel.

5   DD Name: IENC   Code: trshgd_5   Date accepted: 2001-05-31

        Name: chemicals

Value   Data Dictionary (DD) Reference

             Definition: any material used in or obtained by a process in chemistry.

6   DD Name: IENC   Code: trshgd_6   Date accepted: 2001-05-31

             Name: liquid goods

             Definition: fluids whose shape is usually determined by the container it fills.

7   DD Name: IENC   Code: trshgd_7   Date accepted: 2001-05-31

             Name: explosive goods

             Definition: goods that undergoes decomposition or combustion with great rapidity, evolving
             much heat and producing a large volume of gas.

8   DD Name: IENC   Code: trshgd_8   Date accepted: 2001-05-31

             Name: fish

             Definition: marine animals

9   DD Name: IENC   Code: trshgd_9   Date accepted: 2001-05-31

             Name: cars

             Definition: wheeled vehicles

10   DD Name: IENC   Code: trshgd_10   Date accepted: 2001-05-31

             Name: general cargo

             Definition: general cargo

Attribute	UN location code

Acronym: **unlocd**   Code: 17077

Use Type: F

Value Type: T

Data Dictionary (DD) Reference:

DD Name: IENC   Date accepted: 2001-05-31

Definition: The attribute unlocd should be used to encode the UN Location Code
                   (http://www.unece.org/cefact/locode/service/main.htm) or - in Europe - the Inland Ship
                   Reporting Standard (ISRS) Code

Attribute	Use of Ship

Acronym: **useshp**   Code: 17094

Use Type: F

Value Type: E

Data Dictionary (DD) Reference:

DD Name: IENC   Date accepted: 2001-05-31

Definition:

Enumerations

Value   Data Dictionary (DD) Reference

1   DD Name: IENC   Code: useshp_1   Date accepted: 2001-05-31

        Name: liner trade

        Definition: ship is used to carry goods on a scheduled service

2   DD Name: IENC   Code: useshp_2   Date accepted: 2001-05-31

        Name: occasional professional shipping

        Definition: ship is occasional used for professional shipping

3   DD Name: IENC   Code: useshp_3   Date accepted: 2001-05-31

        Name: leisure

        Definition: ship is used for leisure activities

Attribute	Value at other locally relevant water level

Acronym: **othwat**   Code: 17086

Use Type: F

Value Type: F

Data Dictionary (DD) Reference:

DD Name: IENC   Date accepted: 2001-05-31

Definition: Value at waterway gauge in case of a specific water level, which is locally of
                   importanance or of interest for navigation

Attribute	Value at relevant high water level

Acronym: **higwat**   Code: 17080

Use Type: F

Value Type: F

<u>Data Dictionary (DD) Reference:</u>

DD Name: IENC   Date accepted: 2001-05-31

Definition: Value at waterway gauge in case of exact high water level (according to official
                  regulations at the specific section of waterway)

Attribute	Value at relevant low water level

Acronym: **lowwat**   Code: 17082

Use Type: F

Value Type: F

Data Dictionary (DD) Reference:

DD Name: IENC   Date accepted: 2001-05-31

Definition: Value at waterway gauge in case of exact low water level (according to official
                  regulations at the specific section of waterway)

Attribute	Value at relevant mean water level

Acronym: **meawat**   Code: 17084

Use Type: F

Value Type: F

<u>Data Dictionary (DD) Reference:</u>

DD Name: IENC   Date accepted: 2001-05-31

Definition: Value at waterway gauge in case of exact mean water level (according to official
                  regulations at the specific section of waterway)

Attribute	Vertical datum

Acronym: **verdat**   Code: 17005

Use Type: F

Value Type: E

<u>Data Dictionary (DD) Reference:</u>

DD Name: IENC   Date accepted: 2001-05-31

Definition:

<u>Enumerations</u>

Value   Data Dictionary (DD) Reference

12   DD Name: IENC   Code: verdat_12   Date accepted: 2001-05-31

          Name: Mean lower low water

          Definition: (MLLW) - the average height of the lower low waters at a place over a 19-year period. (IHO Dictionary, S-32, 5th Edition, 3145)

31   DD Name: IENC   Code: verdat_31   Date accepted: 2001-05-31

          Name: Local low water reference level

          Definition: low water reference level of the local area

32   DD Name: IENC   Code: verdat_32   Date accepted: 2001-05-31

          Name: Local high water reference level

          Definition: high water reference level of the local area

33   DD Name: IENC   Code: verdat_33   Date accepted: 2001-05-31

          Name: Local mean water reference level

          Definition: mean water reference level of the local area

34   DD Name: IENC   Code: verdat_34   Date accepted: 2001-05-31

          Name: Equivalent height of water (German GIW)

Value   Data Dictionary (DD) Reference

Definition: A low water level which is the result of a defined low water discharge - called "equivalent discharge".

35   DD Name: IENC   Code: verdat_35   Date accepted: 2001-05-31

Name: Highest Shipping Height of Water (German HSW)

Definition: upper limit of water levels where navigation is allowed

36   DD Name: IENC   Code: verdat_36   Date accepted: 2001-05-31

Name: Reference low water level according to Danube Commission

Definition: The water level at a discharge, which is exceeded 94 % of the year within a period of 30 years.

37   DD Name: IENC   Code: verdat_37   Date accepted: 2001-05-31

Name: Highest shipping height of water according to Danube Commission

Definition: The water level at a discharge, which is exceeded 1 % of the year within a period of 30 years.

38   DD Name: IENC   Code: verdat_38   Date accepted: 2001-05-31

Name: Dutch river low water reference level (OLR)

Definition: The water level at a discharge, which is exceeded 95 % of the year within a period of 20 years.

39   DD Name: IENC   Code: verdat_39   Date accepted: 2001-05-31

Name: Russian project water level

Definition: Conditional low water level with established probability (Hydrographic Terminology Dictionary, HDNO, 1984).

40   DD Name: IENC   Code: verdat_40   Date accepted: 2001-05-31

Name: Russian normal backwater level

Definition: Highest water level derived from the upper backwater stream in watercourse or reservoir under the normal operational conditions. (Hydrographic Terminology Dictionary, HDNO, 1984).

41   DD Name: IENC   Code: verdat_41   Date accepted: 2001-05-31

Name: Ohio River Datum

Value   Data Dictionary (DD) Reference

             Definition:

Attribute	Water displacement range value 1

Acronym: **lc_wd1**   Code: 18026

Use Type: F

Value Type: F

Data Dictionary (DD) Reference:

DD Name: IENC   Date accepted: 2001-05-31

Definition: The minimum value of the water displacement range the particular article/clause of the appli-cable law/regulation is dealing with

Attribute	Water displacement value 2

Acronym: **lc_wd2**   Code: 18027

Use Type: F

Value Type: F

Data Dictionary (DD) Reference:

DD Name: IENC   Date accepted: 2001-05-31

Definition: The maximum value of the water displacement range the particular article/clause of the appli-cable law/regulation is dealing with

Attribute	water displacement unit

Acronym: **lg_wdu**   Code: 18007

Use Type: F

Value Type: E

Data Dictionary (DD) Reference:

DD Name: IENC   Date accepted: 2001-05-31

Definition:

Enumerations

Value   Data Dictionary (DD) Reference

1   DD Name: IENC   Code: lg_wdu_1   Date accepted: 2001-05-31
            Name: other
            Definition:

2   DD Name: IENC   Code: lg_wdu_2   Date accepted: 2001-05-31
            Name: cubic meters
            Definition:

3   DD Name: IENC   Code: lg_wdu_3   Date accepted: 2001-05-31
            Name: tonnes
            Definition:

Attribute	Water level effect

Acronym: **watlev**   Code: 17104

Use Type: F

Value Type: E

Data Dictionary (DD) Reference:

DD Name: IENC   Date accepted: 2001-05-31

Definition:

Enumerations

Value   Data Dictionary (DD) Reference

1   DD Name: IENC   Code: watlev_1   Date accepted: 2001-05-31

          Name: partly submerged at high water

          Definition: partially covered and partially dry at high water.

2   DD Name: IENC   Code: watlev_2   Date accepted: 2001-05-31

          Name: always dry

          Definition: not covered at high water under average meteorological conditions.

3   DD Name: IENC   Code: watlev_3   Date accepted: 2001-05-31

          Name: always under water/submerged

          Definition: remains covered by water at all times under average meteorological conditions.

8   DD Name: IENC   Code: watlev_8   Date accepted: 2001-05-31

          Name: above mean water level

          Definition: above a water level called "mean water" which is the arithmetic mean value of all water levels within a certain period of time

9   DD Name: IENC   Code: watlev_9   Date accepted: 2001-05-31

          Name: below mean water level

Value   Data Dictionary (DD) Reference

             Definition: below a water level called "mean water" which is the arithmetic mean value of all
             water levels within a certain period of time

Attribute	waterway distance

Acronym: **wtwdis**

Code: 17064

Use Type: F

Value Type: F

Data Dictionary (DD) Reference:

DD Name: IENC   Date accepted: 2001-05-31

Definition: The distance measured from an origin of a river or canal