IENC Feature Catalogue

Edition 2.2

2010-01-01

Introduction

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

Data Dictionary Name	Token	Owner	Place of Publishment
HYDRO Data Dictionary	HYDRO	IHO	http://195.217.61.120/iho_registry
IENC Data Dictionary	IENC	IEHG	http://195.217.61.120/iho_registry

Used Abbreviations

Feature Types		Feature Primitives	
G	Geo	Р	Point
M	Meta	L	Line
С	Cartographic	Α	Area
0	Collection	N	None
1	Information		

Use of Feature Attribute Bindings

O optional

M mandatory

C conditional mandatory

Type of Attribute Use		Type of Attribute Value	
F	Feature	E	Enumeration
N	National	L	List
S	Spatial	F	Float
С	Cartographic	1	Integer
		Т	Text
		S	Structured text

Feature	Coverage
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Acronym: M_COVR Code: 302

Type: M

Primitve: A

Data Dictionary (DD) Reference:

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

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

Attribute Bindings:

acronym	usage	constraints
CATCOV	М	value list = "1,2"
SORDAT	С	format = "ccyymmdd"
SORIND	С	format = "cc,cc,cccc,c"

Feature	Quality of data
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Acronym: M_QUAL Code: 308

Type: M

Primitve: A

Data Dictionary (DD) Reference:

DD Name: HYDRO 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	0	value list = "1,2,3,4,5,6"
DRVAL1	0	unit = "m,ft" decimal digits = "2"
POSACC	0	unit = "m,ft" decimal digits = "2"
SOUACC	0	unit = "m,ft" decimal digits = "2"
SUREND	0	format = "ccyymmdd"
SURSTA	0	format = "ccyymmdd"
TECSOU	С	value list = "1,2,3,4,5,6,7,8,9,10,11,12,13,14"
SORDAT	С	format = "ccyymmdd"
SORIND	С	format = "cc,cc,ccccc,c"

Feature	Nautical Publication Information
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Acronym: M_NPUB Code: 305

Type: M

Primitve: A

Data Dictionary (DD) Reference:

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

Definition: Used to relate additional nautical information or publications to the data.

Attribute Bindings:

acronym usage constraints

TXTDSC M

SORDAT C format = "ccyymmdd"

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

Feature	Survey reliability
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Acronym: M_SREL Code: 310

Type: M

Primitve: A

Data Dictionary (DD) Reference:

DD Name: HYDRO 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	С	value list = "4,10"
QUASOU	M	value list = "1,2,8,10,11"
SURATH	М	
SUREND	М	format = "ccyymmdd,ccyymm"
SURSTA	М	format = "ccyymmdd,ccyymm"
SURTYP	С	value list = "2"
SORDAT	С	format = "ccyymmdd"
SORIND	С	format = "cc,cc,cccc,c"

Acronym: ADMARE Code: 1

Type: G

Primitve: A

Data Dictionary (DD) Reference:

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

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

Attribute Bindings:

acronym	usage	constraints
DATSTA	0	format = "ccyymmdd"
DATEND	0	format = "ccyymmdd"
PERSTA	0	format = "ccyymmdd"
PEREND	0	format = "ccyymmdd"
JRSDTN	М	value list = "1,2,3"
NATION	М	format = "cc"
OBJNAM	М	
NOBJNM	0	
INFORM	0	
NINFOM	0	
SCAMIN	М	min = "1"
PICREP	0	
TXTDSC	0	
SORDAT	С	format = "ccyymmdd"
SORIND	С	format = "cc,cc,cccc,c"

Feature	Airport/airfield	
Acronym:	AIRARE	Code: 2
Type:	G	

Data Dictionary (DD) Reference:

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

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

aircraft.

P,A

Attribute Bindings:

Primitve:

acronym	usage	constraints
CATAIR	0	value list = "1,2,4,6"
DATSTA	0	format = "ccyymmdd"
DATEND	0	format = "ccyymmdd"
PERSTA	0	format = "ccyymmdd"
PEREND	0	format = "ccyymmdd"
OBJNAM	0	
NOBJNM	0	
INFORM	0	
NINFOM	0	
SCAMIN	М	min = "1"
PICREP	0	
TXTDSC	0	
SORDAT	С	format = "ccyymmdd"
SORIND	С	format = "cc,cc,cccc,c"

Feature	Beacon, isolated danger	
Acronym:	BCNISD	Code: 6

Type: G

Primitve: P

Data Dictionary (DD) Reference:

DD Name: HYDRO 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). An isolated danger beacon is a beacon erected on an isolated danger of limited extent, which has navigable water all around it. (UKHO NP 735, 5th Edition)

Attribute Bindings:

acronym	usage	constraints
BCNSHP	М	value list = "1,2,3,4,5"
COLOUR	М	value list = "2,3"
COLPAT	М	value list = "1"
CONRAD	0	value list = "3"
DATSTA	0	format = "ccyymmdd"
DATEND	0	format = "ccyymmdd"
PERSTA	0	format = "ccyymmdd"
PEREND	Ο	format = "ccyymmdd"
OBJNAM	0	
NOBJNM	0	
INFORM	0	
NINFOM	0	
SCAMIN	М	min = "1"
PICREP	0	
TXTDSC	0	

acronym	usage	constraints
SORDAT	С	format = "ccyymmdd"
SORIND	С	format = "cc,cc,cccc,c"

Feature	Beacon, lateral
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Acronym: BCNLAT Code: 7

Type: G

Primitve: P

Data Dictionary (DD) Reference:

DD Name: HYDRO 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)

Attribute Bindings:

usage	constraints
М	value list = "1,5"
М	value list = "1,2,3,4"
М	value list = "1,2,3,4,5,6,7,8,9,10,11,12,13"
С	value list = "1,2,3,4,5,6"
0	format = "ccyymmdd"
0	
0	
0	
0	
М	min = "1"
	M M M C O O O O

acronym	usage	constraints
PICREP	0	
TXTDSC	0	
SORDAT	С	format = "ccyymmdd"
SORIND	С	format = "cc,cc,ccccc,c"

Feature Buoy, cardinal	LEgatura	l Buov. cardinal
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Acronym: BOYCAR Code: 14

Type: G

Primitve: P

Data Dictionary (DD) Reference:

DD Name: HYDRO 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)

Attribute Bindings:

acronym	usage	constraints
BOYSHP	М	value list = "1,2,3,4,5,6,8"
CATCAM	M	value list = "1,2,3,4"
COLOUR	М	value list = "1,2,3,4,5,6,7,8,9,10,11,12,13"
COLPAT	С	value list = "1,2,3,4,5,6"
CONRAD	0	value list = "3"
MARSYS	С	value list = "1,2"
DATSTA	0	format = "ccyymmdd"
DATEND	0	format = "ccyymmdd"
PERSTA	0	format = "ccyymmdd"
PEREND	0	format = "ccyymmdd"
NOBJNM	С	
OBJNAM	С	
INFORM	0	

acronym	usage	constraints
NINFOM	0	
SCAMIN	М	min = "1"
PICREP	0	
TXTDSC	0	
SORDAT	С	format = "ccyymmdd"
SORIND	С	format = "cc,cc,cccc,c"

Feature	Buoy, isolated danger		
Acronym:	BOYISD	Code: 16	
Type:	G		

Data Dictionary (DD) Reference:

Ρ

DD Name: HYDRO 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). An isolated danger buoy is a buoy moored on or above an isolated danger of limited extent, which has navigable water all around it. (UKHO NP 735, 5th Edition)

Attribute Bindings:

Primitve:

acronym	usage	constraints
BOYSHP	М	value list = "4,5"
COLOUR	М	value list = "2,3"
COLPAT	М	value list = "1"
CONRAD	0	value list = "3"
MARSYS	С	value list = "1,2"
DATSTA	0	format = "ccyymmdd"
DATEND	0	format = "ccyymmdd"
PERSTA	0	format = "ccyymmdd"
PEREND	0	format = "ccyymmdd"
NOBJNM	С	
OBJNAM	С	
INFORM	0	
NINFOM	0	
SCAMIN	М	min = "1"
PICREP	0	

acronym	usage	constraints
TXTDSC	0	
SORDAT	С	format = "ccyymmdd"
SORIND	С	format = "cc,cc,cccc,c"

Feature	Buoy, lateral
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Acronym: BOYLAT Code: 17

Type: G

Primitve: P

Data Dictionary (DD) Reference:

DD Name: HYDRO 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	М	value list = "1,2,3,4,5,6,8"
CATLAM	М	value list = "1,2,3,4"
COLOUR	М	value list = "1,2,3,4,5,6,7,8,9,10,11,12,13"
COLPAT	С	value list = "1,2,3,4,5,6"
CONRAD	0	value list = "3"
MARSYS	С	value list = "1,2"
DATSTA	0	format = "ccyymmdd"
DATEND	0	format = "ccyymmdd"
PERSTA	Ο	format = "ccyymmdd"
PEREND	Ο	format = "ccyymmdd"
NOBJNM	С	
OBJNAM	С	
INFORM	Ο	
NINFOM	0	

acronym	usage	constraints
SCAMIN	М	min = "1"
PICREP	0	
TXTDSC	0	
SORDAT	С	format = "ccyymmdd"
SORIND	С	format = "cc,cc,ccccc,c"

Feature	Buoy, safe water	
Acronym:	BOYSAW	Code: 18

Type: G

Primitve: P

Data Dictionary (DD) Reference:

DD Name: HYDRO 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	М	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	М	value list = "1,2,3,4,5,6"
CONRAD	С	value list = "3"
MARSYS	С	value list = "1,2"
DATSTA	0	format = "ccyymmdd"
DATEND	0	format = "ccyymmdd"
PERSTA	0	format = "ccyymmdd"
PEREND	0	format = "ccyymmdd"
OBJNAM	0	
NOBJNM	0	
INFORM	0	
NINFOM	0	
SCAMIN	М	min = "1"
PICREP	0	

acronym	usage	constraints
TXTDSC	0	
SORDAT	С	format = "ccyymmdd"
SORIND	С	format = "cc,cc,cccc,c"

Feature	Buoy, special purpose/general
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Acronym: BOYSPP Code: 19

Type: G

Primitve: P

Data Dictionary (DD) Reference:

DD Name: HYDRO 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	М	value list = "1,2,3,4,5,6,8"
CATSPM	М	value list = "6,10,12,37,39,41,45,50,54,55"
COLOUR	М	value list = "1,2,3,4,5,6,7,8,9,10,11,12,13"
COLPAT	С	value list = "1,2,3,4,5,6"
CONRAD	0	value list = "3"
MARSYS	С	value list = "1,2"
DATSTA	0	format = "ccyymmdd"
DATEND	0	format = "ccyymmdd"
PERSTA	0	format = "ccyymmdd"
PEREND	0	format = "ccyymmdd"
OBJNAM	0	
NOBJNM	0	
INFORM	0	

acronym	usage	constraints
NINFOM	0	
SCAMIN	М	min = "1"
PICREP	0	
TXTDSC	0	
SORDAT	С	format = "ccyymmdd"
SORIND	С	format = "cc,cc,ccccc,c"

Feature	Built-up area
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Acronym: BUAARE Code: 13

Type: G

Primitve: P,A

Data Dictionary (DD) Reference:

DD Name: HYDRO 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	0	value list = "1,2,3,4,5"
DATSTA	0	format = "ccyymmdd"
DATEND	0	format = "ccyymmdd"
PERSTA	0	format = "ccyymmdd"
PEREND	0	format = "ccyymmdd"
OBJNAM	С	
NOBJNM	0	
INFORM	0	
NINFOM	0	
SCAMIN	М	min = "1"
PICREP	0	
TXTDSC	0	
SORDAT	С	format = "ccyymmdd"
SORIND	С	format = "cc,cc,cccc,c"

Feature	Building, single	
Acronym:	BUISGL	Code: 12
Type:	G	
Primitve:	P,A	

Data Dictionary (DD) Reference:

DD Name: HYDRO 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)

Attribute Bindings:

acronym	usage	constraints
CONVIS	0	value list = "1,2"
DATSTA	0	format = "ccyymmdd"
DATEND	0	format = "ccyymmdd"
PERSTA	0	format = "ccyymmdd"
PEREND	0	format = "ccyymmdd"
FUNCTN	С	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	0	
NOBJNM	0	
INFORM	0	
NINFOM	0	
SCAMIN	М	min = "1"
PICREP	0	
TXTDSC	0	
SORDAT	С	format = "ccyymmdd"
SORIND	С	format = "cc,cc,ccccc,c"

Feature	Canal	
Acronym:	CANALS	Code: 23

Type: G

Primitve: L,A

Data Dictionary (DD) Reference:

DD Name: HYDRO 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
DATSTA	0	format = "ccyymmdd"
DATEND	0	format = "ccyymmdd"
PERSTA	0	format = "ccyymmdd"
PEREND	0	format = "ccyymmdd"
OBJNAM	0	
NOBJNM	0	
INFORM	0	
NINFOM	0	
SCAMIN	М	min = "1"
PICREP	0	
TXTDSC	0	
SORDAT	С	format = "ccyymmdd"
SORIND	С	format = "cc,cc,cccc,c"

Feature	Cable area
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Acronym: CBLARE Code: 20

Type: G

Primitve: A

Data Dictionary (DD) Reference:

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

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

Attribute Bindings:

acronym	usage	constraints
CATCBL	0	value list = "1,3,4,5,6"
STATUS	С	value list = "18"
DATSTA	0	format = "ccyymmdd"
DATEND	0	format = "ccyymmdd"
PERSTA	0	format = "ccyymmdd"
PEREND	0	format = "ccyymmdd"
RESTRN	0	value list = "1"
OBJNAM	0	
NOBJNM	0	
INFORM	0	
NINFOM	0	
SCAMIN	М	min = "1"
PICREP	Ο	
TXTDSC	Ο	
SORDAT	С	format = "ccyymmdd"
SORIND	С	format = "cc,cc,cccc,c"

Feature	Cable, submarine
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Acronym: CBLSUB Code: 22

Type: G

Primitve: L

Data Dictionary (DD) Reference:

DD Name: HYDRO 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	0	value list = "1,3,4,5,6"
STATUS	С	value list = "18"
DATSTA	Ο	format = "ccyymmdd"
DATEND	0	format = "ccyymmdd"
PERSTA	Ο	format = "ccyymmdd"
PEREND	Ο	format = "ccyymmdd"
OBJNAM	Ο	
NOBJNM	0	
INFORM	0	
NINFOM	Ο	
SCAMIN	М	min = "1"
PICREP	Ο	
TXTDSC	Ο	
SORDAT	С	format = "ccyymmdd"
SORIND	С	format = "cc,cc,cccc,c"

Feature	Coastline

Acronym: COALNE Code: 30

Type: G

Primitve: L

Data Dictionary (DD) Reference:

DD Name: HYDRO 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:

usage	constraints
0	value list = "1,2,3,4,5,6,7,8,9,10,11"
0	format = "ccyymmdd"
0	
0	
0	
0	
М	min = "1"
0	
0	
С	format = "ccyymmdd"
С	format = "cc,cc,cccc,c"

Feature	Caution area

Acronym: CTNARE Code: 27

Type: G

Primitve: P,A

Data Dictionary (DD) Reference:

DD Name: HYDRO 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
DATSTA	0	format = "ccyymmdd"
DATEND	0	format = "ccyymmdd"
PERSTA	0	format = "ccyymmdd"
PEREND	0	format = "ccyymmdd"
NOBJNM	0	
OBJNAM	0	
INFORM	М	
NINFOM	0	
SCAMIN	М	min = "1"
PICREP	0	
TXTDSC	0	
SORDAT	С	format = "ccyymmdd"
SORIND	С	format = "cc,cc,ccccc,c

Feature	Conveyor	
A oronym:	CONVYR	Code: 34
Acronym:	COMVIN	Code. 34
Type:	G	

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

L,A

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:

Primitve:

acronym	usage	constraints
CATCON	М	value list = "2"
DATSTA	0	format = "ccyymmdd"
DATEND	0	format = "ccyymmdd"
PERSTA	0	format = "ccyymmdd"
PEREND	0	format = "ccyymmdd"
PRODCT	0	value list = "1,2,3,4,5,6,7,8,14,15,17,21,22"
VERCLR	0	unit = "m,ft" decimal digits = "2"
OBJNAM	0	
NOBJNM	0	
INFORM	0	
NINFOM	0	
SCAMIN	М	min = "1"
PICREP	0	
TXTDSC	0	
SORDAT	С	format = "ccyymmdd"
SORIND	С	format = "cc,cc,cccc,c"

Feature	Crane	
Acronym:	CRANES	Code: 35
Type:	G	
Primitve:	P,A	

DD Name: HYDRO 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	0	value list = "2,3,4,5"
DATSTA	0	format = "ccyymmdd"
DATEND	0	format = "ccyymmdd"
PERSTA	0	format = "ccyymmdd"
PEREND	0	format = "ccyymmdd"
VERCLR	0	unit = "m,ft" decimal digits = "2"
OBJNAM	0	
NOBJNM	0	
INFORM	0	
NINFOM	0	
SCAMIN	М	min = "1"
PICREP	0	
TXTDSC	0	
SORDAT	С	format = "ccyymmdd"
SORIND	С	format = "cc,cc,cccc,c"

Feature	Dam	
Acronym:	DAMCON	Code: 38
Type:	G	
Primitve:	L,A	

DD Name: HYDRO 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	М	value list = "1,2,3"
DATSTA	0	format = "ccyymmdd"
DATEND	0	format = "ccyymmdd"
PERSTA	0	format = "ccyymmdd"
PEREND	0	format = "ccyymmdd"
NATCON	0	value list = "1,2,3,4,5,6,7,8,9"
OBJNAM	М	
NOBJNM	0	
INFORM	0	
NINFOM	0	
SCAMIN	М	min = "1"
PICREP	0	
TXTDSC	0	
SORDAT	С	format = "ccyymmdd"
SORIND	С	format = "cc,cc,ccccc,c"

Feature	Daymark	
Acronym:	DAYMAR	Code: 39
Type:	G	
Primitve:	Р	

DD Name: HYDRO 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:

NINFOM

SCAMIN

PICREP

0

Μ

0

min = "1"

acronym	usage	constraints
COLOUR	M	value list = "1,2,3,4,5,6,7,8,9,10,11,12,13"
COLPAT	С	value list = "1,2,3,4,5,6"
DATSTA	0	format = "ccyymmdd"
DATEND	0	format = "ccyymmdd"
PERSTA	0	format = "ccyymmdd"
PEREND	0	format = "ccyymmdd"
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
OBJNAM	0	
NOBJNM	0	
INFORM	0	

acronym	usage	constraints
TXTDSC	0	
SORDAT	С	format = "ccyymmdd"
SORIND	С	format = "cc,cc,cccc,c"

Feature	Depth area
---------	------------

Acronym: **DEPARE** Code: 42

Type: G

Primitve: A

Data Dictionary (DD) Reference:

DD Name: HYDRO 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,ft" decimal digits = "2"
DRVAL2	M	unit = "m,ft" decimal digits = "2"
DATSTA	0	format = "ccyymmdd"
DATEND	0	format = "ccyymmdd"
PERSTA	0	format = "ccyymmdd"
PEREND	0	format = "ccyymmdd"
INFORM	С	
NINFOM	0	
QUASOU	С	value list = "1,2,8,10,11"
SORDAT	С	format = "ccyymmdd"
SORIND	С	format = "cc,cc,ccccc,c"

Feature	Depth contour
---------	---------------

Acronym: **DEPCNT** Code: 43

Type: G

Primitve: L

Data Dictionary (DD) Reference:

DD Name: HYDRO 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:

ooron. m	110000	constraints
acronym	usage	Constraints
VALDCO	M	unit = "m,ft" decimal digits = "1"
SCAMIN	M	min = "1"
DATSTA	0	format = "ccyymmdd"
DATEND	0	format = "ccyymmdd"
PERSTA	0	format = "ccyymmdd"
PEREND	0	format = "ccyymmdd"
SORDAT	С	format = "ccyymmdd"
SORIND	С	format = "cc,cc,ccccc,c"

Feature	Dredged area

Acronym: DRGARE Code: 46

Type: G

Primitve: A

Data Dictionary (DD) Reference:

DD Name: HYDRO 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	0	unit = "m,ft" decimal digits = "2"
DATSTA	0	format = "ccyymmdd"
DATEND	0	format = "ccyymmdd"
PERSTA	0	format = "ccyymmdd"
PEREND	0	format = "ccyymmdd"
SORDAT	С	format = "ccyymmdd"
SORIND	С	format = "cc,cc,cccc,c"

Feature	Dry dock

Acronym: DRYDOC Code: 47

Type: G

Primitve: A

Data Dictionary (DD) Reference:

DD Name: HYDRO 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	0	unit = "m,ft" decimal digits = "2"
HORCLR	0	unit = "m,ft" decimal digits = "2"
HORLEN	0	unit = "m,ft" decimal digits = "2"
HORWID	0	unit = "m,ft" decimal digits = "2"
OBJNAM	0	
NOBJNM	0	
INFORM	0	
NINFOM	0	
SCAMIN	M	min = "1"
PICREP	0	
TXTDSC	0	
DATSTA	0	format = "ccyymmdd"
DATEND	0	format = "ccyymmdd"
PERSTA	0	format = "ccyymmdd"
PEREND	0	format = "ccyymmdd"

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

Feature	Dyke
---------	------

Acronym: **DYKCON** Code: 49

Type: G

Primitve: L,A

Data Dictionary (DD) Reference:

DD Name: HYDRO 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	0	unit = "m,ft" decimal digits = "2"
OBJNAM	0	
NOBJNM	0	
INFORM	0	
NINFOM	0	
SCAMIN	М	min = "1"
PICREP	0	
TXTDSC	0	
DATSTA	0	format = "ccyymmdd"
DATEND	0	format = "ccyymmdd"
PERSTA	0	format = "ccyymmdd"
PEREND	0	format = "ccyymmdd"
SORDAT	С	format = "ccyymmdd"
SORIND	С	format = "cc,cc,ccccc,c"

Feature	Fairway	
Acronym:	FAIRWY	Code: 51
Туре:	G	
Primitve:	Α	

DD Name: HYDRO 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
OBJNAM	0	
NOBJNM	0	
INFORM	0	
NINFOM	0	
SCAMIN	М	min = "1"
PICREP	0	
TXTDSC	0	
DATSTA	0	format = "ccyymmdd"
DATEND	0	format = "ccyymmdd"
PERSTA	0	format = "ccyymmdd"
PEREND	0	format = "ccyymmdd"
SORDAT	С	format = "ccyymmdd"
SORIND	С	format = "cc,cc,ccccc,c"

Feature	Ferry route	
Acronym:	FERYRT	Code: 53
Туре:	G	
Primitve:	L	

DD Name: HYDRO 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	М	value list = "1,2"
STATUS	С	value list = "2,3,4,8,9,12,14,16,17"
OBJNAM	0	
NOBJNM	0	
INFORM	0	
NINFOM	0	
SCAMIN	М	min = "1"
PICREP	0	
TXTDSC	0	
DATSTA	0	format = "ccyymmdd"
DATEND	0	format = "ccyymmdd"
PERSTA	0	format = "ccyymmdd"
PEREND	0	format = "ccyymmdd"
SORDAT	С	format = "ccyymmdd"
SORIND	С	format = "cc,cc,cccc,c"

Feature	Floating dock		
Acronym:	FLODOC	Code: 57	
Type:	G		
Primitve:	A		

DD Name: HYDRO 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
DRVAL1	0	unit = "m,ft" decimal digits = "2"
HORCLR	0	unit = "m,ft" decimal digits = "2"
HORLEN	0	unit = "m,ft" decimal digits = "2"
HORWID	0	unit = "m,ft" decimal digits = "2"
OBJNAM	0	
NOBJNM	0	
INFORM	0	
NINFOM	0	
SCAMIN	М	min = "1"
PICREP	0	
TXTDSC	0	
DATSTA	0	format = "ccyymmdd"
DATEND	0	format = "ccyymmdd"
PERSTA	0	format = "ccyymmdd"
PEREND	0	format = "ccyymmdd"

acronym	usage	constraints
SORDAT	С	format = "ccyymmdd"
SORIND	С	format = "cc,cc,cccc,c"

Feature	Fence/wall	
Acronym:	FNCLNE	Code: 52
Type:	G	
Primitve:	L	

DD Name: HYDRO 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	С	
NOBJNM	0	
INFORM	0	
NINFOM	0	
SCAMIN	M	min = "1"
PICREP	0	
TXTDSC	0	
DATSTA	Ο	format = "ccyymmdd"
DATEND	Ο	format = "ccyymmdd"
PERSTA	Ο	format = "ccyymmdd"
PEREND	0	format = "ccyymmdd"
SORDAT	С	format = "ccyymmdd"
SORIND	С	format = "cc,cc,cccc,c"

Feature	Fog signal	
A	50000	0.4.50
Acronym:	FOGSIG	Code: 58
Type:	G	

DD Name: HYDRO 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)

Ρ

Attribute Bindings:

Primitve:

acronym	usage	constraints
CATFOG	M	value list = "1,2,3,4,5,6,7,8,9,10"
SIGFRQ	0	unit = "Hz" min = "0"
SIGGEN	0	value list = "1,2"
SIGGRP	С	format = "(c)(c)"
SIGPER	С	unit = "s" decimal digits = "2"
SIGSEQ	С	format = "I.II+(e.ee)"
VALMXR	0	unit = "nm" decimal digits = "1"
OBJNAM	0	
NOBJNM	0	
INFORM	0	
NINFOM	0	
SCAMIN	M	min = "1"
PICREP	0	
TXTDSC	0	
DATSTA	0	format = "ccyymmdd"

acronym	usage	constraints
DATEND	0	format = "ccyymmdd"
PERSTA	0	format = "ccyymmdd"
PEREND	0	format = "ccyymmdd"
SORDAT	С	format = "ccyymmdd"
SORIND	С	format = "cc,cc,cccc,c"

Feature	Free port area	
Acronym:	FRPARE	Code: 60
Type:	G	
Primitve:	A	

DD Name: HYDRO 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	0	
NOBJNM	0	
INFORM	0	
NINFOM	0	
SCAMIN	М	min = "1"
PICREP	0	
TXTDSC	0	
DATSTA	0	format = "ccyymmdd"
DATEND	0	format = "ccyymmdd"
PERSTA	0	format = "ccyymmdd"
PEREND	0	format = "ccyymmdd"
SORDAT	С	format = "ccyymmdd"
SORIND	С	format = "cc,cc,ccccc,c"

Feature	Gate

Acronym: GATCON Code: 61

Type: G

Primitve: L,A

Data Dictionary (DD) Reference:

DD Name: HYDRO 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	М	unit = "m,ft" decimal digits = "2"
VERCLR	0	unit = "m,ft" decimal digits = "2"
VERDAT	0	value list = "4"
OBJNAM	0	
NOBJNM	0	
INFORM	0	
NINFOM	0	
SCAMIN	М	min = "1"
PICREP	0	
TXTDSC	0	
DATSTA	0	format = "ccyymmdd"
DATEND	0	format = "ccyymmdd"
PERSTA	0	format = "ccyymmdd"
PEREND	0	format = "ccyymmdd"
SORDAT	С	format = "ccyymmdd"

acronym usage constraints

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

Feature	Harbour facility
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Acronym: HRBFAC Code: 64

Type: G

Primitve: P,A

Data Dictionary (DD) Reference:

DD Name: HYDRO 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	
NOBJNM	0	
INFORM	0	
NINFOM	0	
SCAMIN	М	min = "1"
PICREP	0	
TXTDSC	0	
DATSTA	0	format = "ccyymmdd"
DATEND	0	format = "ccyymmdd"
PERSTA	0	format = "ccyymmdd"
PEREND	0	format = "ccyymmdd"
SORDAT	С	format = "ccyymmdd"
SORIND	С	format = "cc,cc,cccc,c

Feature	Hulk
---------	------

Acronym: HULKES Code: 65

Type: G

Primitve: A

Data Dictionary (DD) Reference:

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

Definition: A permanently moored ship.

Attribute Bindings:

acronym	usage	constraints
doronym	adago	
CATHLK	M	value list = "1,2,3,4,5"
OBJNAM	0	
NOBJNM	0	
INFORM	0	
NINFOM	0	
SCAMIN	М	min = "1"
PICREP	0	
TXTDSC	0	
DATSTA	0	format = "ccyymmdd"
DATEND	0	format = "ccyymmdd"
PERSTA	0	format = "ccyymmdd"
PEREND	0	format = "ccyymmdd"
SORDAT	С	format = "ccyymmdd"
SORIND	С	format = "cc,cc,cccc,c

Feature	Lake
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Acronym: LAKARE Code: 69

Type: G

Primitve: A

Data Dictionary (DD) Reference:

DD Name: HYDRO 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
OBJNAM	0	
NOBJNM	0	
INFORM	0	
NINFOM	0	
SCAMIN	М	min = "1"
PICREP	0	
TXTDSC	0	
DATSTA	0	format = "ccyymmdd"
DATEND	0	format = "ccyymmdd"
PERSTA	0	format = "ccyymmdd"
PEREND	0	format = "ccyymmdd"
SORDAT	С	format = "ccyymmdd"
SORIND	С	format = "cc,cc,ccccc,c"

Feature	Light
	•

Acronym: LIGHTS Code: 75

Type: G

Primitve: P

Data Dictionary (DD) Reference:

DD Name: HYDRO 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
CATLIT	М	value list = "1,4,12,13,14,15"
COLOUR	М	value list = "1,2,3,4,5,6,7,8,9,10,11,12,13"
EXCLIT	С	value list = "1,2,3,4"
LITCHR	М	value list = "1,2,3,4,7,9"
LITVIS	С	value list = "4"
MLTYLT	С	min = "2"
ORIENT	С	unit = "deg" decimal digits = "2"
SECTR1	С	unit = "deg" decimal digits = "2"
SECTR2	С	unit = "deg" decimal digits = "2"
SIGGRP	С	format = "(c)(c)"
SIGPER	С	unit = "s" decimal digits = "2"
SIGSEQ	С	format = "I.II+(e.ee)"
STATUS	С	value list = "2,3,4,8,9,12,14,16,17"
OBJNAM	0	
NOBJNM	0	
INFORM	С	

acronym	usage	constraints
NINFOM	0	
SCAMIN	М	min = "1"
PICREP	0	
TXTDSC	0	
DATSTA	0	format = "ccyymmdd"
DATEND	0	format = "ccyymmdd"
PERSTA	0	format = "ccyymmdd"
PEREND	0	format = "ccyymmdd"
SORDAT	С	format = "ccyymmdd"
SORIND	С	format = "cc,cc,cccc,c"

Feature	Land area
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Acronym: LNDARE Code: 71

Type: G

Primitve: P,L,A

Data Dictionary (DD) Reference:

DD Name: HYDRO 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	0	
NOBJNM	0	
INFORM	0	
NINFOM	0	
PICREP	0	
TXTDSC	0	
DATSTA	0	format = "ccyymmdd"
DATEND	0	format = "ccyymmdd"
PERSTA	0	format = "ccyymmdd"
PEREND	0	format = "ccyymmdd"
SORDAT	С	format = "ccyymmdd"
SORIND	С	format = "cc,cc,ccccc,c"

Feature	Landmark
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Acronym: LNDMRK Code: 74

Type: G

Primitve: P,A

Data Dictionary (DD) Reference:

DD Name: HYDRO 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	С	value list = "2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,
OBJNAM	0	
NOBJNM	0	
INFORM	0	
NINFOM	0	
SCAMIN	M	min = "1"
PICREP	0	
TXTDSC	0	
DATSTA	0	format = "ccyymmdd"
DATEND	0	format = "ccyymmdd"
PERSTA	0	format = "ccyymmdd"
PEREND	0	format = "ccyymmdd"
SORDAT	С	format = "ccyymmdd"

acronym usage constraints

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

Feature	Land region
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Acronym: LNDRGN Code: 73

Type: G

Primitve: P,A

Data Dictionary (DD) Reference:

DD Name: HYDRO 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	М	
NOBJNM	0	
INFORM	0	
NINFOM	0	
SCAMIN	М	min = "1"
PICREP	0	
TXTDSC	0	
DATSTA	0	format = "ccyymmdd"
DATEND	0	format = "ccyymmdd"
PERSTA	0	format = "ccyymmdd"
PEREND	0	format = "ccyymmdd"
SORDAT	С	format = "ccyymmdd"
SORIND	С	format = "cc,cc,ccccc,c"

Feature	Mooring/Warping facility
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Acronym: MORFAC Code: 84

Type: G

Primitve: P,L,A

Data Dictionary (DD) Reference:

DD Name: HYDRO 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	М	value list = "1,5,7"
NATCON	0	value list = "1,2,3,4,5,6,7,8,9"
WATLEV	0	value list = "1,2,3,4,5"
OBJNAM	0	
NOBJNM	0	
INFORM	0	
NINFOM	0	
SCAMIN	М	min = "1"
PICREP	0	
TXTDSC	0	
DATSTA	0	format = "ccyymmdd"
DATEND	0	format = "ccyymmdd"
PERSTA	0	format = "ccyymmdd"
PEREND	0	format = "ccyymmdd"
SORDAT	С	format = "ccyymmdd"
SORIND	С	format = "cc,cc,ccccc,c"

Feature	Navigation line	
Acronym:	NAVLNE	Code: 85

Type: G

Primitve: L

Data Dictionary (DD) Reference:

DD Name: HYDRO 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	С	value list = "1,2,3"
ORIENT	М	unit = "deg" decimal digits = "2"
OBJNAM	0	
NOBJNM	0	
INFORM	0	
NINFOM	0	
SCAMIN	М	min = "1"
PICREP	Ο	
TXTDSC	Ο	
DATSTA	Ο	format = "ccyymmdd"
DATEND	Ο	format = "ccyymmdd"
PERSTA	Ο	format = "ccyymmdd"
PEREND	Ο	format = "ccyymmdd"
SORDAT	С	format = "ccyymmdd"
SORIND	С	format = "cc,cc,ccccc,c"

Feature	Obstruction	
Acronym:	OBSTRN	Code: 86
Type:	G	
Primitve:	P,L,A	

Data Dictionary (DD) Reference:

DD Name: HYDRO 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	0	value list = "1,2,3,4,5,6,7,8,9,10"
NATSUR	С	value list = "9"
VALSOU	С	unit = "m,ft" decimal digits = "2"
WATLEV	С	value list = "1,2,3,4,5"
OBJNAM	0	
NOBJNM	0	
INFORM	0	
NINFOM	0	
SCAMIN	М	min = "1"
PICREP	0	
TXTDSC	0	
DATSTA	0	format = "ccyymmdd"
DATEND	0	format = "ccyymmdd"
PERSTA	0	format = "ccyymmdd"
PEREND	0	format = "ccyymmdd"

acronym	usage	constraints
SORDAT	С	format = "ccyymmdd"
SORIND	С	format = "cc,cc,cccc,c"

Feature	Oil barrier
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Acronym: OILBAR Code: 89

Type: G

Primitve: L

Data Dictionary (DD) Reference:

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

Definition: A construction to dam oil flow on water.

Attribute Bindings:

acronym	usage	constraints
CATOLB	0	value list = "1,2"
OBJNAM	0	
NOBJNM	0	
INFORM	0	
NINFOM	0	
SCAMIN	М	min = "1"
PICREP	0	
TXTDSC	0	
DATSTA	0	format = "ccyymmdd"
DATEND	0	format = "ccyymmdd"
PERSTA	0	format = "ccyymmdd"
PEREND	0	format = "ccyymmdd"
SORDAT	С	format = "ccyymmdd"
SORIND	С	format = "cc,cc,ccccc,c"

Feature	Pile

Acronym: PILPNT Code: 90

Type: G
Primitve: P

Data Dictionary (DD) Reference:

DD Name: HYDRO 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	М	
NOBJNM	0	
INFORM	0	
NINFOM	0	
SCAMIN	М	min = "1"
PICREP	0	
TXTDSC	0	
DATSTA	0	format = "ccyymmdd"
DATEND	0	format = "ccyymmdd"
PERSTA	0	format = "ccyymmdd"
PEREND	0	format = "ccyymmdd"
SORDAT	С	format = "ccyymmdd"
SORIND	С	format = "cc,cc,cccc,c"

Feature	Pipeline area	
Acronym:	PIPARE	Code: 92
Type:	G	
Primitve:	A	

Data Dictionary (DD) Reference:

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

Definition: An area containing one or more pipelines.

Attribute Bindings:

acronym	usage	constraints
CATPIP	0	value list = "2,3,4,6"
PRODCT	0	value list = "1,2,3,4,5,6,7,8,14,15,17,21,22"
RESTRN	М	value list = "1"
STATUS	С	value list = "18"
OBJNAM	0	
NOBJNM	0	
INFORM	0	
NINFOM	Ο	
SCAMIN	М	min = "1"
PICREP	Ο	
TXTDSC	Ο	
DATSTA	Ο	format = "ccyymmdd"
DATEND	Ο	format = "ccyymmdd"
PERSTA	Ο	format = "ccyymmdd"
PEREND	Ο	format = "ccyymmdd"
SORDAT	С	format = "ccyymmdd"
SORIND	С	format = "cc,cc,cccc,c"

Feature Pipeline, submarine/on land

Acronym: PIPSOL Code: 94

Type: G

Primitve: P,L

Data Dictionary (DD) Reference:

DD Name: HYDRO 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	0	value list = "2,3,4,6"
PRODCT	0	value list = "1,2,3,4,5,6,7,8,14,15,17,21,22"
STATUS	С	value list = "18"
OBJNAM	0	
NOBJNM	0	
INFORM	0	
NINFOM	0	
SCAMIN	М	min = "1"
PICREP	0	
TXTDSC	0	
DATSTA	0	format = "ccyymmdd"
DATEND	0	format = "ccyymmdd"
PERSTA	0	format = "ccyymmdd"
PEREND	0	format = "ccyymmdd"
SORDAT	С	format = "ccyymmdd"

acronym usage constraints

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

Feature	Pontoon	
Acronym:	PONTON	Code: 95
Type:	G	
Primitve:	A	

Data Dictionary (DD) Reference:

DD Name: HYDRO 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	0	
NOBJNM	0	
INFORM	0	
NINFOM	0	
PICREP	0	
TXTDSC	0	
DATSTA	0	format = "ccyymmdd"
DATEND	0	format = "ccyymmdd"
PERSTA	0	format = "ccyymmdd"
PEREND	0	format = "ccyymmdd"
SORDAT	С	format = "ccyymmdd"
SORIND	С	format = "cc,cc,ccccc,c"

Feature	Production/storage area
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Acronym: PRDARE Code: 97

Type: G

Primitve: A

Data Dictionary (DD) Reference:

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

Definition: An area on land for the exploitation or storage of natural resources.

Attribute Bindings:

acronym	usage	constraints
CATPRA	0	value list = "1,2,3,4,5,6,7,8,9,10"
PRODCT	0	value list = "1,2,4,5,6,7,14,15,17,21,22"
CONVIS	0	value list = "1,2"
STATUS	0	value list = "2,12,16,17"
OBJNAM	0	
NOBJNM	0	
INFORM	0	
NINFOM	0	
PICREP	0	
TXTDSC	0	
DATSTA	0	format = "ccyymmdd"
DATEND	0	format = "ccyymmdd"
PERSTA	0	format = "ccyymmdd"
PEREND	0	format = "ccyymmdd"
SORDAT	С	format = "ccyymmdd"
SORIND	С	format = "cc,cc,ccccc,c"

Feature Pylon/bridge support	
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Acronym: **PYLONS** Code: 98

Type: G

Primitve: P,A

Data Dictionary (DD) Reference:

DD Name: HYDRO 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	М	value list = "1,2,3,4,5"
WATLEV	М	value list = "1,2,3,4,5"
OBJNAM	0	
NOBJNM	0	
INFORM	0	
NINFOM	0	
SCAMIN	М	min = "1"
PICREP	0	
TXTDSC	0	
DATSTA	0	format = "ccyymmdd"
DATEND	0	format = "ccyymmdd"
PERSTA	0	format = "ccyymmdd"
PEREND	0	format = "ccyymmdd"
SORDAT	С	format = "ccyymmdd"
SORIND	С	format = "cc,cc,ccccc,c"

Feature	Radar station	
Acronym:	RADSTA	Code: 102
Type:	G	
Primitve:	Р	

Data Dictionary (DD) Reference:

DD Name: HYDRO 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	M	value list = "1"
OBJNAM	0	
NOBJNM	0	
INFORM	0	
NINFOM	0	
SCAMIN	М	min = "1"
PICREP	0	
TXTDSC	0	
DATSTA	0	format = "ccyymmdd"
DATEND	0	format = "ccyymmdd"
PERSTA	0	format = "ccyymmdd"
PEREND	0	format = "ccyymmdd"
SORDAT	С	format = "ccyymmdd"
SORIND	С	format = "cc,cc,ccccc,c"

Feature	Railway

Acronym: RAILWY Code: 106

Type: G

Primitve: L

Data Dictionary (DD) Reference:

DD Name: HYDRO 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)

Attribute Bindings:

acronym	usage	constraints
OBJNAM	0	
NOBJNM	0	
INFORM	0	
NINFOM	0	
SCAMIN	М	min = "1"
PICREP	0	
TXTDSC	0	
DATSTA	0	format = "ccyymmdd"
DATEND	0	format = "ccyymmdd"
PERSTA	0	format = "ccyymmdd"
PEREND	0	format = "ccyymmdd"
SORDAT	С	format = "ccyymmdd"
SORIND	С	format = "cc,cc,ccccc,c"

Feature	Recommended track
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Acronym: RECTRC Code: 109

Type: G

Primitve: L

Data Dictionary (DD) Reference:

DD Name: HYDRO 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	М	value list = "1,2"
ORIENT	М	unit = "deg" decimal digits = "2"
DRVAL1	0	unit = "m,ft" decimal digits = "2"
DRVAL2	0	unit = "m,ft" decimal digits = "2"
TRAFIC	М	value list = "1,2,3,4"
OBJNAM	0	
NOBJNM	0	
INFORM	С	
NINFOM	0	
SCAMIN	М	min = "1"
PICREP	0	
TXTDSC	0	
DATSTA	0	format = "ccyymmdd"
DATEND	0	format = "ccyymmdd"
PERSTA	0	format = "ccyymmdd"
PEREND	0	format = "ccyymmdd"

acronym	usage	constraints
SORDAT	С	format = "ccyymmdd"
SORIND	С	format = "cc,cc,cccc,c"

Feature	Restricted area	
Acronym:	RESARE	Code: 112
Туре:	G	

Data Dictionary (DD) Reference:

Α

DD Name: HYDRO 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:

Primitve:

acronym	usage	constraints
RESTRN	М	value list = "1"
CATREA	С	value list = "12"
OBJNAM	0	
NOBJNM	0	
INFORM	0	
NINFOM	0	
SCAMIN	М	min = "1"
PICREP	0	
TXTDSC	0	
DATSTA	0	format = "ccyymmdd"
DATEND	0	format = "ccyymmdd"
PERSTA	0	format = "ccyymmdd"
PEREND	0	format = "ccyymmdd"
SORDAT	С	format = "ccyymmdd"
SORIND	С	format = "cc,cc,cccc,c"

Feature	River

Acronym: RIVERS Code: 114

Type: G

Primitve: L,A

Data Dictionary (DD) Reference:

DD Name: HYDRO 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	С	
NOBJNM	0	
INFORM	0	
NINFOM	0	
SCAMIN	М	min = "1"
PICREP	0	
TXTDSC	0	
DATSTA	0	format = "ccyymmdd"
DATEND	0	format = "ccyymmdd"
PERSTA	0	format = "ccyymmdd"
PEREND	0	format = "ccyymmdd"
SORDAT	С	format = "ccyymmdd"
SORIND	С	format = "cc,cc,cccc,c'

Feature	Road

Acronym: ROADWY Code: 116

Type: G

Primitve: L,A

Data Dictionary (DD) Reference:

DD Name: HYDRO 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"
NATCON	0	value list = "4,5"
OBJNAM	0	
NOBJNM	0	
INFORM	0	
NINFOM	0	
SCAMIN	М	min = "1"
PICREP	0	
TXTDSC	0	
DATSTA	0	format = "ccyymmdd"
DATEND	0	format = "ccyymmdd"
PERSTA	0	format = "ccyymmdd"
PEREND	0	format = "ccyymmdd"
SORDAT	С	format = "ccyymmdd"
SORIND	С	format = "cc,cc,cccc,c"

Feature	Radar transponder beacon	
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Acronym: RTPBCN Code: 103

Type: G

Primitve: P

Data Dictionary (DD) Reference:

DD Name: HYDRO 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	М	value list = "1,2,3"
RADWAL	0	format = "xx.x-b,xx.x-b,] xx.x = value in meter, b = band"
SIGGRP	0	format = "(c)(c)"
OBJNAM	0	
NOBJNM	0	
INFORM	0	
NINFOM	0	
SCAMIN	М	min = "1"
PICREP	0	
TXTDSC	0	
DATSTA	0	format = "ccyymmdd"
DATEND	0	format = "ccyymmdd"
PERSTA	0	format = "ccyymmdd"
PEREND	0	format = "ccyymmdd"
SORDAT	С	format = "ccyymmdd"

acronym usage constraints

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

Feature	Sea area/named water area
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Acronym: SEAARE Code: 119

Type: G

Primitve: P,A

Data Dictionary (DD) Reference:

DD Name: HYDRO 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	0	value list = "13,51,53"
OBJNAM	М	
NOBJNM	0	
INFORM	С	
NINFOM	0	
SCAMIN	М	min = "1"
PICREP	0	
TXTDSC	С	
DATSTA	0	format = "ccyymmdd"
DATEND	0	format = "ccyymmdd"
PERSTA	0	format = "ccyymmdd"
PEREND	0	format = "ccyymmdd"
SORDAT	С	format = "ccyymmdd"
SORIND	С	format = "cc,cc,ccccc,c

Feature	Silo/tank
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Acronym: SILTNK Code: 125

Type: G

Primitve: P,A

Data Dictionary (DD) Reference:

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

Definition: An enclosed container, used for storage (Digital Geographic Information Working

Group, Oct.87)

Attribute Bindings:

acronym	usage	constraints
CATSIL	0	value list = "1,2,3,4"
PRODCT	0	value list = "1,2,3,4,5,6,7,8,14,15,17,21,22"
OBJNAM	0	
NOBJNM	0	
INFORM	0	
NINFOM	0	
SCAMIN	М	min = "1"
PICREP	0	
TXTDSC	0	
DATSTA	0	format = "ccyymmdd"
DATEND	0	format = "ccyymmdd"
PERSTA	0	format = "ccyymmdd"
PEREND	0	format = "ccyymmdd"
SORDAT	С	format = "ccyymmdd"
SORIND	С	format = "cc,cc,cccc,c"

Feature	Shoreline construction
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Acronym: SLCONS Code: 122

Type: G

Primitve: P,L,A

Data Dictionary (DD) Reference:

DD Name: HYDRO 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	М	value list = "1,2,4,5,6,7,8,9,10,11,12,13,14,15,16"
NATCON	С	value list = "1,2,3,4,5,6,7,8,9"
STATUS	С	value list = "2,3,4,8,9,12,14,16,17"
WATLEV	0	value list = "1,2,3,4,5"
INFORM	0	
OBJNAM	С	
NOBJNM	0	
INFORM	0	
NINFOM	0	
SCAMIN	М	min = "1"
PICREP	0	
TXTDSC	0	
DATSTA	0	format = "ccyymmdd"
DATEND	0	format = "ccyymmdd"
PERSTA	0	format = "ccyymmdd"
PEREND	0	format = "ccyymmdd"

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

Feature Sloping ground

Acronym: SLOGRD Code: 127

Type: G

Primitve: L,A

Data Dictionary (DD) Reference:

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

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

Attribute Bindings:

acronym	usage	constraints
CATSLO	М	value list = "2,3"
NATSUR	0	value list = "1,2,3,4,5,6,7,8,9,11,14,17,18"
OBJNAM	0	
NOBJNM	0	
INFORM	0	
NINFOM	0	
SCAMIN	М	min = "1"
PICREP	0	
TXTDSC	0	
DATSTA	0	format = "ccyymmdd"
DATEND	0	format = "ccyymmdd"
PERSTA	0	format = "ccyymmdd"
PEREND	0	format = "ccyymmdd"
SORDAT	С	format = "ccyymmdd"
SORIND	С	format = "cc,cc,ccccc,c"

Feature	Slope topline
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Acronym: SLOTOP Code: 126

Type: G

Primitve: L

Data Dictionary (DD) Reference:

DD Name: HYDRO 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:

usage	constraints
М	value list = "2,3,6"
0	value list = "1,2,3,4,5,6,7,8,9,11,14,17,18"
0	
0	
0	
0	
М	min = "1"
0	
0	
0	format = "ccyymmdd"
С	format = "ccyymmdd"
С	format = "cc,cc,cccc,c"
	M O O O O O O C

Feature	Small craft facility
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Acronym: SMCFAC Code: 128

Type: G

Primitve: P,A

Data Dictionary (DD) Reference:

DD Name: HYDRO 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	0	
NOBJNM	0	
INFORM	0	
NINFOM	0	
SCAMIN	М	min = "1"
PICREP	0	
TXTDSC	0	
DATSTA	0	format = "ccyymmdd"
DATEND	0	format = "ccyymmdd"
PERSTA	0	format = "ccyymmdd"
PEREND	0	format = "ccyymmdd"
SORDAT	С	format = "ccyymmdd"
SORIND	С	format = "cc,cc,cccc,c"

1 eature Souriding

Acronym: SOUNDG Code: 129

Type: G

Primitve: P

Data Dictionary (DD) Reference:

DD Name: HYDRO 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	М	min = "1"
DATSTA	0	format = "ccyymmdd"
DATEND	0	format = "ccyymmdd"
PERSTA	0	format = "ccyymmdd"
PEREND	0	format = "ccyymmdd"
SORDAT	С	format = "ccyymmdd"
SORIND	С	format = "cc,cc,cccc,c"

Feature	Topmark	
Acronym:	TOPMAR	Code: 144
Туре:	G	
Primitve:	Р	

Data Dictionary (DD) Reference:

DD Name: HYDRO 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)

Attribute Bindings:

acronym	usage	constraints
COLOUR	М	value list = "1,2,3,4,5,6,7,8,9,10,11,12,13"
COLPAT	С	value list = "1,2,3,4,5,6"
TOPSHP	М	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	0	
NOBJNM	0	
INFORM	С	
NINFOM	0	
SCAMIN	М	min = "1"
PICREP	0	
TXTDSC	0	
DATSTA	0	format = "ccyymmdd"
DATEND	0	format = "ccyymmdd"
PERSTA	0	format = "ccyymmdd"
PEREND	0	format = "ccyymmdd"
SORDAT	С	format = "ccyymmdd"

Edition 2.2

acronym usage constraints

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

Feature	Tunnel

Acronym: TUNNEL Code: 151

Type: G

Primitve: L,A

Data Dictionary (DD) Reference:

DD Name: HYDRO 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	0	unit = "m,ft" decimal digits = "1"
HORCLR	С	unit = "m,ft" decimal digits = "2"
VERCLR	С	unit = "m,ft" decimal digits = "2"
OBJNAM	0	
NOBJNM	0	
INFORM	0	
NINFOM	0	
SCAMIN	М	min = "1"
PICREP	0	
TXTDSC	0	
DATSTA	0	format = "ccyymmdd"
DATEND	0	format = "ccyymmdd"
PERSTA	0	format = "ccyymmdd"
PEREND	0	format = "ccyymmdd"
SORDAT	С	format = "ccyymmdd"
SORIND	С	format = "cc,cc,ccccc,c"

Feature Two-way route part

Acronym: TWRTPT Code: 152

Type: G

Primitve: A

Data Dictionary (DD) Reference:

DD Name: HYDRO 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	М	unit = "deg" decimal digits = "2"
TRAFIC	M	value list = "1,2,3,4"
OBJNAM	0	
NOBJNM	0	
INFORM	0	
NINFOM	0	
SCAMIN	М	min = "1"
PICREP	0	
TXTDSC	0	
DATSTA	0	format = "ccyymmdd"
DATEND	0	format = "ccyymmdd"
PERSTA	0	format = "ccyymmdd"
PEREND	0	format = "ccyymmdd"
SORDAT	С	format = "ccyymmdd"

acronym usage constraints

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

Feature	Underwater/awash rock
---------	-----------------------

Acronym: UWTROC Code: 153

Type: G

Primitve: P,A

Data Dictionary (DD) Reference:

DD Name: HYDRO 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	М	unit = "m,ft" decimal digits = "2"
WATLEV	М	value list = "1,2,3,4,5"
NATSUR	0	value list = "1,2,3,4,5,6,7,8,9,11,14,17,18"
QUASOU	0	value list = "1,2,8,10,11"
OBJNAM	0	
NOBJNM	0	
INFORM	0	
NINFOM	0	
SCAMIN	М	min = "1"
PICREP	0	
TXTDSC	0	
DATSTA	0	format = "ccyymmdd"
DATEND	0	format = "ccyymmdd"
PERSTA	0	format = "ccyymmdd"
PEREND	0	format = "ccyymmdd"
SORDAT	С	format = "ccyymmdd"

acronym usage constraints

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

Feature	Vegetation
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Acronym: **VEGATN** Code: 155

Type: G

Primitve: P,A

Data Dictionary (DD) Reference:

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

Definition: Collections of, or individual plants.

Attribute Bindings:

acronym	usage	constraints
CATVEG	M	value list = "6,13"
CONVIS	0	value list = "1,2"
OBJNAM	0	
NOBJNM	0	
INFORM	0	
NINFOM	0	
SCAMIN	М	min = "1"
PICREP	0	
TXTDSC	0	
DATSTA	0	format = "ccyymmdd"
DATEND	0	format = "ccyymmdd"
PERSTA	0	format = "ccyymmdd"
PEREND	0	format = "ccyymmdd"
SORDAT	С	format = "ccyymmdd"
SORIND	С	format = "cc,cc,ccccc,c"

Feature	Wreck	
Acronym:	WRECKS	Code: 159

Type: G

Primitve: P,A

Data Dictionary (DD) Reference:

DD Name: HYDRO 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	М	value list = "1,2,3,4,5"
VALSOU	С	unit = "m,ft" decimal digits = "2"
WATLEV	0	value list = "1,2,3,4,5"
QUASOU	0	value list = "1,2,8,10,11"
TECSOU	0	value list = "1,2,3,4,5,6,7,8,9,10,11,12,13,14"
STATUS	0	value list = "12,16,17,18"
OBJNAM	0	
NOBJNM	0	
INFORM	0	
NINFOM	0	
SCAMIN	М	min = "1"
PICREP	0	
TXTDSC	0	
DATSTA	0	format = "ccyymmdd"
DATEND	0	format = "ccyymmdd"
PERSTA	0	format = "ccyymmdd"

acronym	usage	constraints
PEREND	0	format = "ccyymmdd"
SORDAT	С	format = "ccyymmdd"
SORIND	С	format = "cc,cc,ccccc,c"

Feature	Aggregation	
	• • • • • • • • • • • • • • • • • • • •	0 1 100
Acronym:	C_AGGR	Code: 400
Type:	0	
Primitve:	N	

Data Dictionary (DD) Reference:

DD Name: HYDRO 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	0		
OBJNAM	0		
INFORM	0		
NINFOM	0		
NTXTDS	0		
PICREP	0		
SCAMIN	М	min = "1"	
TXTDSC	0		
SORDAT	С	format = "ccyymmdd"	
SORIND	С	format = "cc,cc,ccccc,c"	

Feature	Accociation	
Acronym:	C_ASSO	Code: 401
Type:	0	
Primitve:	N	

Data Dictionary (DD) Reference:

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

Definition: Used to identify an association between two or more objects. The association may be

named.

Attribute Bindings:

acronym	usage	constraints
NOBJNM	0	
OBJNAM	0	
INFORM	0	
NINFOM	0	
NTXTDS	0	
PICREP	0	
SCAMIN	М	min = "1"
TXTDSC	0	
SORDAT	С	format = "ccyymmdd"
SORIND	С	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	Ο	value list = "1,2,3,4,5,6,7,9,10,11,12,13"
clsdng	Ο	value list = "1,2,3,4,5"
restrn	Ο	value list = "1,2,7,8,13,14,27,28,29,30,31,32,33,34,35,36"
STATUS	Ο	value list = "2,3,4,8,9,12,14,16,17"
NATSUR	Ο	value list = "1,2,3,4,5,6,7,8,9,11,14,17,18"
unlocd	С	
OBJNAM	Ο	
NOBJNM	Ο	
INFORM	Ο	
NINFOM	Ο	
SCAMIN	М	min = "1"
PICREP	Ο	
TXTDSC	Ο	
DATSTA	Ο	format = "ccyymmdd"
DATEND	Ο	format = "ccyymmdd"
PERSTA	Ο	format = "ccyymmdd"
PEREND	Ο	format = "ccyymmdd"

acronym	usage	constraints
SORDAT	С	format = "ccyymmdd"
SORIND	С	format = "cc,cc,cccc,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	0	value list = "1,2,3,4,5,6,7,9,10,11,12,13"
clsdng	0	value list = "1,2,3,4,5"
restrn	0	value list = "1,2,7,8,13,14,27,28,29,30,31,32,33,34,35,36"
STATUS	0	value list = "2,3,4,8,9,12,14,16,17"
NATSUR	0	value list = "1,2,3,4,5,6,7,8,9,11,14,17,18"
unlocd	С	
OBJNAM	0	
NOBJNM	0	
INFORM	0	
NINFOM	0	
SCAMIN	М	min = "1"
PICREP	0	
TXTDSC	0	
DATSTA	0	format = "ccyymmdd"
DATEND	0	format = "ccyymmdd"
PERSTA	0	format = "ccyymmdd"

acronym	usage	constraints
PEREND	0	format = "ccyymmdd"
SORDAT	С	format = "ccyymmdd"
SORIND	С	format = "cc,cc,cccc,c"

Feature	Beacon, lateral
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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	М	value list = "1,5"
catlam	М	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	М	value list = "1,2,3,4,5,6,7,8,9,10,11,12,13"
COLPAT	С	value list = "1,2,3,4,5,6"
dirimp	С	value list = "1,2,3,4"
OBJNAM	0	
NOBJNM	0	
INFORM	0	
NINFOM	0	
SCAMIN	М	min = "1"
PICREP	0	
TXTDSC	0	
DATSTA	0	format = "ccyymmdd"

acronym	usage	constraints
DATEND	0	format = "ccyymmdd"
PERSTA	0	format = "ccyymmdd"
PEREND	0	format = "ccyymmdd"
SORDAT	С	format = "ccyymmdd"
SORIND	С	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	0	value list = "1,2,3,4,5,6,7,8"
clsdng	0	value list = "1,2,3,4,5"
DRVAL1	0	unit = "m,ft" decimal digits = "2"
QUASOU	С	value list = "1,2,8,10,11"
SOUACC	С	unit = "m,ft" decimal digits = "2"
STATUS	0	value list = "2,3,4,8,9,12,14,16,17"
trshgd	0	value list = "1,2,3,4,5,6,7,8,9,10"
unlocd	С	
verdat	С	value list = "12,31,32,33,34,35,36,37,38,39,40,41"
OBJNAM	0	
NOBJNM	0	
INFORM	0	
NINFOM	0	
SCAMIN	М	min = "1"
PICREP	0	
TXTDSC	0	

Edition 2.2

acronym	usage	constraints
DATSTA	0	format = "ccyymmdd"
DATEND	0	format = "ccyymmdd"
PERSTA	0	format = "ccyymmdd"
PEREND	0	format = "ccyymmdd"
SORDAT	С	format = "ccyymmdd"
SORIND	С	format = "cc,cc,ccccc,c"

Feature	Bridge	
Acronym:	bridge	Code: 17011
Type:	G	
Primitve:	А	

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	М	value list = "1,3,4,5,9,12"		
HORCLR	0	unit = "m,ft" decimal digits = "2"		
VERCCL	С	unit = "m,ft" decimal digits = "2"		
VERCLR	С	unit = "m,ft" decimal digits = "2"		
VERCOP	С	unit = "m,ft" decimal digits = "2"		
hunits	С	value list = "1,2,3,4,5,6"		
unlocd	С			
verdat	С	value list = "12,31,32,33,34,35,36,37,38,39,40,41"		
wtwdis	М	decimal digits = "3"		
OBJNAM	0			
NOBJNM	0			
INFORM	С			
NINFOM	0			
SCAMIN	М	min = "1"		
PICREP	0			

acronym	usage	constraints
TXTDSC	0	
DATSTA	0	format = "ccyymmdd"
DATEND	0	format = "ccyymmdd"
PERSTA	0	format = "ccyymmdd"
PEREND	0	format = "ccyymmdd"
SORDAT	С	format = "ccyymmdd"
SORIND	С	format = "cc,cc,cccc,c"

Feature	Bunker station
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Acronym: bunsta Code: 17054

Type: G

Primitve: P,A

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	0	value list = "1,2,3"
OBJNAM	0	
unlocd	С	
OBJNAM	0	
NOBJNM	0	
INFORM	0	
NINFOM	0	
SCAMIN	М	min = "1"
PICREP	0	
TXTDSC	0	
DATSTA	0	format = "ccyymmdd"
DATEND	0	format = "ccyymmdd"
PERSTA	0	format = "ccyymmdd"
PEREND	0	format = "ccyymmdd"
SORDAT	С	format = "ccyymmdd"
SORIND	С	format = "cc,cc,ccccc,c"

Feature	Buoy, lateral	
Acronym:	boylat	Code: 17029
Type:	G	
Primitve:	Р	

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	М	value list = "1,2,3,4,5,6,8"
catlam	М	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	М	value list = "1,2,3,4,5,6,7,8,9,10,11,12,13"
COLPAT	С	value list = "1,2,3,4,5,6"
CONRAD	0	value list = "3"
marsys	С	value list = "1,2,9,10,11,12"
OBJNAM	С	
NOBJNM	0	
INFORM	0	
NINFOM	0	
SCAMIN	М	min = "1"
PICREP	0	
TXTDSC	0	
DATSTA	0	format = "ccyymmdd"
DATEND	0	format = "ccyymmdd"

acronym	usage	constraints
PERSTA	0	format = "ccyymmdd"
PEREND	0	format = "ccyymmdd"
SORDAT	С	format = "ccyymmdd"
SORIND	С	format = "cc,cc,ccccc,c"

Feature	Cable, overhead	
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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	М	value list = "1,3,4,5,6,7"
VERCLR	М	unit = "m,ft" decimal digits = "2"
hunits	С	value list = "1,2,3,4,5,6"
verdat	0	value list = "12,31,32,33,34,35,36,37,38,39,40,41"
wtwdis	0	decimal digits = "3"
OBJNAM	0	
NOBJNM	0	
INFORM	0	
NINFOM	0	
SCAMIN	М	min = "1"
PICREP	0	
TXTDSC	0	
DATSTA	0	format = "ccyymmdd"
DATEND	0	format = "ccyymmdd"
PERSTA	0	format = "ccyymmdd"

acronym	usage	constraints
PEREND	0	format = "ccyymmdd"
SORDAT	С	format = "ccyymmdd"
SORIND	С	format = "cc,cc,cccc,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	М	value list = "1,2"
NATION	М	format = "cc"
unlocd	С	
OBJNAM	0	
NOBJNM	0	
INFORM	0	
NINFOM	0	
SCAMIN	М	min = "1"
PICREP	0	
TXTDSC	0	
DATSTA	0	format = "ccyymmdd"
DATEND	0	format = "ccyymmdd"
PERSTA	0	format = "ccyymmdd"
PEREND	0	format = "ccyymmdd"
SORDAT	С	format = "ccyymmdd"
SORIND	С	format = "cc,cc,cccc,c

Feature	Communication area
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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	0	value list = "1,2,3,4,5,6,7,8"
COMCHA	М	format = "xxxx;xxxx;"
STATUS	0	value list = "2,3,4,8,9,12,14,16,17"
OBJNAM	0	
NOBJNM	0	
INFORM	0	
NINFOM	0	
SCAMIN	М	min = "1"
PICREP	0	
TXTDSC	0	
DATSTA	0	format = "ccyymmdd"
DATEND	0	format = "ccyymmdd"
PERSTA	0	format = "ccyymmdd"
PEREND	0	format = "ccyymmdd"
SORDAT	С	format = "ccyymmdd"
SORIND	С	format = "cc,cc,ccccc,c"

Feature Conveyor

Acronym: Code: 17034

Type: G

Primitve: L,A

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"
PRODCT	0	value list = "1,2,3,4,5,6,7,8,14,15,17,21,22"
VERCLR	0	unit = "m,ft" decimal digits = "2"
verdat	0	value list = "12,31,32,33,34,35,36,37,38,39,40,41"
OBJNAM	0	
NOBJNM	0	
INFORM	0	
NINFOM	0	
SCAMIN	М	min = "1"
PICREP	0	
TXTDSC	0	
DATSTA	0	format = "ccyymmdd"
DATEND	0	format = "ccyymmdd"
PERSTA	0	format = "ccyymmdd"
PEREND	0	format = "ccyymmdd"
SORDAT	С	format = "ccyymmdd"

acronym usage constraints

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	0	value list = "2,3,4,5"
VERCLR	0	unit = "m,ft" decimal digits = "2"
verdat	0	value list = "12,31,32,33,34,35,36,37,38,39,40,41"
OBJNAM	0	
NOBJNM	0	
INFORM	0	
NINFOM	0	
SCAMIN	М	min = "1"
PICREP	0	
TXTDSC	0	
DATSTA	0	format = "ccyymmdd"
DATEND	0	format = "ccyymmdd"
PERSTA	0	format = "ccyymmdd"
PEREND	0	format = "ccyymmdd"
SORDAT	С	format = "ccyymmdd"

acronym usage constraints

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

Feature	Current, non-gravitational	
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Acronym: 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	С	unit = "km/h" decimal digits = "1"
curvlw	С	unit = "km/h" decimal digits = "1"
curvmw	С	unit = "km/h" decimal digits = "1"
curvow	С	unit = "km/h" decimal digits = "1"
dirimp	С	value list = "1,2,3,4"
hignam	С	
lownam	С	
meanam	С	
othnam	С	
ORIENT	С	unit = "deg" decimal digits = "2"
OBJNAM	0	
NOBJNM	0	
INFORM	0	
NINFOM	0	
SCAMIN	М	min = "1"

acronym	usage	constraints
PICREP	0	
TXTDSC	0	
DATSTA	0	format = "ccyymmdd"
DATEND	0	format = "ccyymmdd"
PERSTA	0	format = "ccyymmdd"
PEREND	0	format = "ccyymmdd"
SORDAT	С	format = "ccyymmdd"
SORIND	С	format = "cc,cc,ccccc,c"

Feature	Depth area
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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	М	unit = "m,ft" decimal digits = "2"
DRVAL2	М	unit = "m,ft" decimal digits = "2"
eleva1	С	unit = "m,ft" decimal digits = "2"
eleva2	С	unit = "m,ft" decimal digits = "2"
QUASOU	С	value list = "1,2,8,10,11"
hunits	С	value list = "1,2,3,4,5,6"
wtwdis	М	decimal digits = "3"
DATSTA	0	format = "ccyymmdd"
DATEND	0	format = "ccyymmdd"
PERSTA	0	format = "ccyymmdd"
PEREND	0	format = "ccyymmdd"
SORDAT	С	format = "ccyymmdd"
SORIND	С	format = "cc,cc,ccccc,c"

Feature	distance mark	
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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	М	value list = "1,2,3,4"
hunits	М	value list = "1,2,3,4,5,6"
unlocd	С	
wtwdis	М	decimal digits = "1"
OBJNAM	0	
NOBJNM	0	
INFORM	0	
NINFOM	0	
SCAMIN	M	min = "1"
PICREP	0	
TXTDSC	0	
DATSTA	0	format = "ccyymmdd"
DATEND	0	format = "ccyymmdd"
PERSTA	0	format = "ccyymmdd"
PEREND	0	format = "ccyymmdd"

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

Feature	Exceptional navigation strcuture
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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	М	value list = "1,2,3,4,5"
DRVAL1	M	unit = "m,ft" decimal digits = "2"
unlocd	С	
verdat	M	value list = "12,31,32,33,34,35,36,37,38,39,40,41"
hunits	С	value list = "1,2,3,4,5,6"
wtwdis	M	decimal digits = "3"
OBJNAM	0	
NOBJNM	0	
INFORM	0	
NINFOM	0	
SCAMIN	M	min = "1"
PICREP	0	
TXTDSC	0	
DATSTA	0	format = "ccyymmdd"
DATEND	0	format = "ccyymmdd"
PERSTA	0	format = "ccyymmdd"
PEREND	0	format = "ccyymmdd"

acronym	usage	constraints
SORDAT	С	format = "ccyymmdd"
SORIND	С	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	0	
OBJNAM	0	
STATUS	0	value list = "2,3,4,8,9,12,14,16,17"
INFORM	0	
NINFOM	0	
NTXTDS	0	
PICREP	0	
SCAMIN	М	min = "1"
TXTDSC	0	
DATSTA	0	format = "ccyymmdd"
DATEND	0	format = "ccyymmdd"
PERSTA	0	format = "ccyymmdd"
PEREND	0	format = "ccyymmdd"
SORDAT	С	format = "ccyymmdd"
SORIND	С	format = "cc,cc,cccc,c"

Feature	Floating dock	
Acronym:	flodoc	Code: 17025
Type:	G	
Primitve:	Α	

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
DRVAL1	0	unit = "m,ft" decimal digits = "2"
HORCLR	0	unit = "m,ft" decimal digits = "2"
HORLEN	0	unit = "m,ft" decimal digits = "2"
horcll	0	unit = "m,ft" decimal digits = "2"
horclw	0	unit = "m,ft" decimal digits = "2"
HORWID	0	unit = "m,ft" decimal digits = "2"
verdat	0	value list = "12,31,32,33,34,35,36,37,38,39,40,41"
OBJNAM	0	
NOBJNM	0	
INFORM	0	
NINFOM	0	
SCAMIN	М	min = "1"
PICREP	0	
TXTDSC	0	
DATSTA	0	format = "ccyymmdd"

acronym	usage	constraints
DATEND	0	format = "ccyymmdd"
PERSTA	0	format = "ccyymmdd"
PEREND	0	format = "ccyymmdd"
SORDAT	С	format = "ccyymmdd"
SORIND	С	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	М	value list = "2,4"		
HORCLR	М	unit = "m,ft" decimal digits = "2"		
VERCLR	0	unit = "m,ft" decimal digits = "2"		
hunits	С	value list = "1,2,3,4,5,6"		
wtwdis	0	decimal digits = "3"		
verdat	0	value list = "12,31,32,33,34,35,36,37,38,39,40,41"		
OBJNAM	0			
NOBJNM	0			
INFORM	0			
NINFOM	0			
SCAMIN	М	min = "1"		
PICREP	0			
TXTDSC	0			
DATSTA	0	format = "ccyymmdd"		
DATEND	0	format = "ccyymmdd"		
PERSTA	0	format = "ccyymmdd"		

acronym	usage	constraints
PEREND	0	format = "ccyymmdd"
SORDAT	С	format = "ccyymmdd"
SORIND	С	format = "cc,cc,cccc,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	0	value list = "1,2,3,4,5"
unlocd	С	
OBJNAM	0	
NOBJNM	0	
INFORM	0	
NINFOM	0	
SCAMIN	M	min = "1"
PICREP	0	
TXTDSC	0	
DATSTA	0	format = "ccyymmdd"
DATEND	0	format = "ccyymmdd"
PERSTA	0	format = "ccyymmdd"
PEREND	0	format = "ccyymmdd"
SORDAT	С	format = "ccyymmdd"
SORIND	С	format = "cc,cc,ccccc,c"

Feature	Harbour basin

Acronym: hrbbsn Code: 17056

Type: G

Primitve: A

Data Dictionary (DD) Reference:

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).

Attribute Bindings:

acronym	usage	constraints
HORLEN	0	unit = "m,ft" decimal digits = "2"
HORWID	0	unit = "m,ft" decimal digits = "2"
unlocd	С	
OBJNAM	0	
NOBJNM	0	
INFORM	0	
NINFOM	0	
SCAMIN	М	min = "1"
PICREP	0	
TXTDSC	0	
DATSTA	0	format = "ccyymmdd"
DATEND	0	format = "ccyymmdd"
PERSTA	0	format = "ccyymmdd"
PEREND	0	format = "ccyymmdd"
SORDAT	С	format = "ccyymmdd"
SORIND	С	format = "cc,cc,cccc,c"

Feature	Harbour facility
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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	М	value list = "4,6,9,12,13,16,17"
OBJNAM	0	
NOBJNM	0	
INFORM	0	
NINFOM	Ο	
SCAMIN	М	min = "1"
PICREP	0	
TXTDSC	0	
DATSTA	0	format = "ccyymmdd"
DATEND	0	format = "ccyymmdd"
PERSTA	Ο	format = "ccyymmdd"
PEREND	Ο	format = "ccyymmdd"
SORDAT	С	format = "ccyymmdd"
SORIND	С	format = "cc,cc,cccc,c"

Feature

Acronym: hulkes Code: 17020

Type: G
Primitve: A

Data Dictionary (DD) Reference:

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

Definition: A permanently moored ship.

Attribute Bindings:

acronym	usage	constraints
cathlk	0	value list = "1,2,3,4,5,6"
unlocd	С	
OBJNAM	0	
NOBJNM	0	
INFORM	0	
NINFOM	0	
SCAMIN	М	min = "1"
PICREP	0	
TXTDSC	0	
DATSTA	0	format = "ccyymmdd"
DATEND	0	format = "ccyymmdd"
PERSTA	0	format = "ccyymmdd"
PEREND	0	format = "ccyymmdd"
SORDAT	С	format = "ccyymmdd"
SORIND	С	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	М	unit = "m,ft" decimal digits = "2"
horclw	М	unit = "m,ft" decimal digits = "2"
HORLEN	0	unit = "m,ft" decimal digits = "2"
HORWID	0	unit = "m,ft" decimal digits = "2"
unlocd	С	
OBJNAM	0	
NOBJNM	0	
INFORM	0	
NINFOM	0	
SCAMIN	М	min = "1"
PICREP	0	
TXTDSC	0	
DATSTA	0	format = "ccyymmdd"
DATEND	0	format = "ccyymmdd"
PERSTA	0	format = "ccyymmdd"
PEREND	0	format = "ccyymmdd"

acronym	usage	constraints
SORDAT	С	format = "ccyymmdd"
SORIND	С	format = "cc,cc,cccc,c"

Feature	Lock basin part
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Acronym: Ikbspt 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	М	unit = "m,ft" decimal digits = "2"
horclw	М	unit = "m,ft" decimal digits = "2"
HORLEN	0	unit = "m,ft" decimal digits = "2"
HORWID	0	unit = "m,ft" decimal digits = "2"
unlocd	С	
OBJNAM	0	
NOBJNM	0	
INFORM	0	
NINFOM	0	
SCAMIN	М	min = "1"
PICREP	0	
TXTDSC	0	
DATSTA	0	format = "ccyymmdd"
DATEND	0	format = "ccyymmdd"
PERSTA	0	format = "ccyymmdd"
PEREND	0	format = "ccyymmdd"

acronym	usage	constraints
SORDAT	С	format = "ccyymmdd"
SORIND	С	format = "cc,cc,cccc,c"

Feature	Maximum permitted ship dimensions
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Acronym: Ig_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	0	value list = "1,2,3,4"
lg_des	0	
lc_csi	0	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	0	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	0	value list = "1,2,3,5,6,7,8,9,10"
lc_ase	0	value list = "1,2,3,5,6,7,8,9,10"
lc_cci	0	value list = "1,2,4,5,6,7,8,9"
lc_cce	0	value list = "1,2,4,5,6,7,8,9"
lg_bme	0	unit = "m,ft" decimal digits = "2"
lg_lgs	0	unit = "m,ft" decimal digits = "2"
lg_drt	0	unit = "m,ft" decimal digits = "2"
lg_wdp	0	decimal digits = "1"
lg_wdu	0	value list = "1,2,3"
DATSTA	0	format = "ccyymmdd"
DATEND	0	format = "ccyymmdd"

acronym	usage	constraints
PERSTA	0	format = "ccyymmdd"
PEREND	0	format = "ccyymmdd"
SORDAT	С	format = "ccyymmdd"
SORIND	С	format = "cc,cc,cccc,c"
lg_pbr	0	

Feature	Maximum permitted vessel speed		
Acronym:	lg_vsp	Code: 18002	
Type:	G		

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:

Primitve:

acronym	usage	constraints
lg_rel	0	value list = "1,2,3,4"
lg_des	0	
lc_csi	0	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	0	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	0	value list = "1,2,3,5,6,7,8,9,10"
lc_ase	0	value list = "1,2,3,5,6,7,8,9,10"
lc_cci	0	value list = "1,2,4,5,6,7,8,9"
lc_cce	0	value list = "1,2,4,5,6,7,8,9"
lc_wd1	0	decimal digits = "1"
lc_wd2	0	decimal digits = "1"
lg_wdu	0	value list = "1,2,3"
lg_spd	0	unit = "km/h" decimal digits = "2"
lg_spr	0	value list = "1,2,3"
lc_bm1	0	unit = "m,ft" decimal digits = "2"
lc_bm2	0	unit = "m,ft" decimal digits = "2"

acronym	usage	constraints
lc_lg1	0	unit = "m,ft" decimal digits = "2"
lc_lg2	0	unit = "m,ft" decimal digits = "2"
lc_dr1	0	unit = "m,ft" decimal digits = "2"
lc_dr2	0	unit = "m,ft" decimal digits = "2"
DATSTA	0	format = "ccyymmdd"
DATEND	0	format = "ccyymmdd"
PERSTA	0	format = "ccyymmdd"
PEREND	0	format = "ccyymmdd"
SORDAT	С	format = "ccyymmdd"
SORIND	С	format = "cc,cc,cccc,c"
lg_pbr	0	

Feature	Navigational system of marks
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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	М	value list = "1,2,9,10,11,12"
SORDAT	С	format = "ccyymmdd"
SORIND	С	format = "cc,cc,ccccc,c"

Feature	Notice mark
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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	0	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	0	value list = "1,2,3,4"
disipd	0	unit = "m,ft" decimal digits = "1"
disipu	0	unit = "m,ft" decimal digits = "1"
disbk1	0	unit = "m,ft" decimal digits = "1"
disbk2	0	unit = "m,ft" decimal digits = "1"
fnctnm	М	value list = "1,2,3,4,5"
marsys	0	value list = "1,2,9,10,11,12"
ORIENT	С	unit = "deg" decimal digits = "2"
STATUS	0	value list = "2,3,4,8,9,12,14,16,17"
bnkwtw	0	value list = "1,2"
OBJNAM	0	
NOBJNM	0	
INFORM	0	

acronym	usage	constraints
NINFOM	0	
SCAMIN	М	min = "1"
PICREP	0	
TXTDSC	0	
DATSTA	0	format = "ccyymmdd"
DATEND	0	format = "ccyymmdd"
PERSTA	0	format = "ccyymmdd"
PEREND	0	format = "ccyymmdd"
SORDAT	С	format = "ccyymmdd"
SORIND	С	format = "cc,cc,ccccc,c"

Feature	Pipeline, overhead
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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	М	value list = "2,3,4,6"
PRODCT	М	value list = "1,2,3,4,5,6,7,8,14,15,17,21,22"
VERCLR	М	unit = "m,ft" decimal digits = "2"
verdat	0	value list = "12,31,32,33,34,35,36,37,38,39,40,41"
hunits	С	value list = "1,2,3,4,5,6"
wtwdis	0	decimal digits = "3"
OBJNAM	0	
NOBJNM	0	
INFORM	0	
NINFOM	0	
SCAMIN	М	min = "1"
PICREP	0	
TXTDSC	0	
DATSTA	0	format = "ccyymmdd"
DATEND	0	format = "ccyymmdd"

acronym	usage	constraints
PERSTA	0	format = "ccyymmdd"
PEREND	0	format = "ccyymmdd"
SORDAT	С	format = "ccyymmdd"
SORIND	С	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
unlocd	С	
OBJNAM	0	
NOBJNM	0	
INFORM	0	
NINFOM	0	
SCAMIN	М	min = "1"
PICREP	0	
TXTDSC	0	
DATSTA	0	format = "ccyymmdd"
DATEND	0	format = "ccyymmdd"
PERSTA	0	format = "ccyymmdd"
PEREND	0	format = "ccyymmdd"
SORDAT	С	format = "ccyymmdd"
SORIND	С	format = "cc,cc,ccccc,c"

Feature	port area
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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
unlocd	С	
OBJNAM	0	
NOBJNM	0	
INFORM	0	
NINFOM	0	
SCAMIN	М	min = "1"
PICREP	0	
TXTDSC	0	
DATSTA	0	format = "ccyymmdd"
DATEND	0	format = "ccyymmdd"
PERSTA	0	format = "ccyymmdd"
PEREND	0	format = "ccyymmdd"
SORDAT	С	format = "ccyymmdd"
SORIND	С	format = "cc,cc,ccccc,c"

Feature	Radio calling-in point	
		0 1 4-04-
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	0	value list = "1,2,3,4,5,6,7,8"
COMCHA	М	format = "xxxx;xxxx;"
ORIENT	М	unit = "deg" decimal digits = "2"
TRAFIC	М	value list = "1,2,3,4"
OBJNAM	0	
NOBJNM	0	
INFORM	0	
NINFOM	0	
SCAMIN	М	min = "1"
PICREP	0	
TXTDSC	С	
DATSTA	0	format = "ccyymmdd"
DATEND	0	format = "ccyymmdd"
PERSTA	0	format = "ccyymmdd"
PEREND	0	format = "ccyymmdd"

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

Feature	refuse dump
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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	0	value list = "1,2,3,4"
unlocd	С	
OBJNAM	0	
NOBJNM	0	
INFORM	0	
NINFOM	0	
SCAMIN	М	min = "1"
PICREP	0	
TXTDSC	0	
DATSTA	0	format = "ccyymmdd"
DATEND	0	format = "ccyymmdd"
PERSTA	0	format = "ccyymmdd"
PEREND	0	format = "ccyymmdd"
SORDAT	С	format = "ccyymmdd"
SORIND	С	format = "cc,cc,cccc,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	0	value list = "4,5,9,12,19,22,23,25,26"
restrn	М	value list = "1,2,7,8,13,14,27,28,29,30,31,32,33,34,35,36,37"
NATSUR	0	value list = "1,2,3,4,5,6,7,8,9,11,14,17,18"
OBJNAM	0	
NOBJNM	0	
INFORM	С	
NINFOM	0	
SCAMIN	М	min = "1"
PICREP	0	
TXTDSC	С	
DATSTA	0	format = "ccyymmdd"
DATEND	0	format = "ccyymmdd"
PERSTA	0	format = "ccyymmdd"
PEREND	0	format = "ccyymmdd"
SORDAT	С	format = "ccyymmdd"

acronym usage constraints

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

Feature	Shoreline Construction
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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	М	value list = "7,18,19"
NATCON	0	value list = "1,2,3,4,5,6,7,8,9"
watlev	С	value list = "1,2,3,4,8,9"
OBJNAM	0	
NOBJNM	0	
INFORM	0	
NINFOM	0	
SCAMIN	М	min = "1"
PICREP	0	
TXTDSC	0	
DATSTA	0	format = "ccyymmdd"
DATEND	0	format = "ccyymmdd"
PERSTA	0	format = "ccyymmdd"
PEREND	0	format = "ccyymmdd"
SORDAT	С	format = "ccyymmdd"
SORIND	С	format = "cc,cc,cccc,c"

Feature	Signal station, traffic
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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	М	value list = "2,6,8,10"
dirimp	0	value list = "1,2,3,4"
OBJNAM	С	
NOBJNM	0	
INFORM	0	
NINFOM	0	
SCAMIN	М	min = "1"
PICREP	0	
TXTDSC	0	
DATSTA	0	format = "ccyymmdd"
DATEND	0	format = "ccyymmdd"
PERSTA	0	format = "ccyymmdd"
PEREND	0	format = "ccyymmdd"
SORDAT	С	format = "ccyymmdd"
SORIND	С	format = "cc,cc,ccccc,c"

Feature	Signal station, warning
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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	М	value list = "15,16,18"
OBJNAM	0	
NOBJNM	0	
INFORM	0	
NINFOM	0	
SCAMIN	М	min = "1"
PICREP	0	
TXTDSC	С	
DATSTA	0	format = "ccyymmdd"
DATEND	0	format = "ccyymmdd"
PERSTA	0	format = "ccyymmdd"
PEREND	0	format = "ccyymmdd"
SORDAT	С	format = "ccyymmdd"
SORIND	С	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	М	value list = "12,31,32,33,34,35,36,37,38,39,40,41"
SORDAT	С	format = "ccyymmdd"
SORIND	С	format = "cc,cc,ccccc,c"

	Feature	terminal
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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	М	value list = "1,3,7,8,10,11"
trshgd	0	value list = "1,2,3,4,5,6,7,8,9,10"
unlocd	С	
OBJNAM	0	
NOBJNM	0	
INFORM	0	
NINFOM	0	
SCAMIN	М	min = "1"
PICREP	0	
TXTDSC	0	
DATSTA	0	format = "ccyymmdd"
DATEND	0	format = "ccyymmdd"
PERSTA	0	format = "ccyymmdd"
PEREND	0	format = "ccyymmdd"
SORDAT	С	format = "ccyymmdd"
SORIND	С	format = "cc,cc,ccccc,c"

Feature	Time Schedule - in general
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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	0	
cattab	М	value list = "1,2"
dirimp	0	value list = "1,2,3,4"
schref	М	
shptyp	М	value list = "1,2,3,4,5,6,7,8,9,10,11,12,13,14,15"
useshp	М	value list = "1,2,3"
SORDAT	С	format = "ccyymmdd"
SORIND	С	format = "cc,cc,ccccc,c"

Feature	turning basin
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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	0	unit = "m,ft" decimal digits = "2"
unlocd	С	
OBJNAM	0	
NOBJNM	0	
INFORM	0	
NINFOM	0	
SCAMIN	M	min = "1"
PICREP	0	
TXTDSC	0	
DATSTA	0	format = "ccyymmdd"
DATEND	0	format = "ccyymmdd"
PERSTA	0	format = "ccyymmdd"
PEREND	0	format = "ccyymmdd"
SORDAT	С	format = "ccyymmdd"
SORIND	С	format = "cc,cc,cccc,c"

Feature	Underwater rock / awash rock
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Acronym: **uwtroc** Code: 17033

Type: G

Primitve: P,A

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,ft" decimal digits = "2"
watlev	M	value list = "1,2,3,4,8,9"
NATSUR	0	value list = "1,2,3,4,5,6,7,8,9,11,14,17,18"
QUASOU	0	value list = "1,2,8,10,11"
OBJNAM	0	
NOBJNM	0	
INFORM	0	
NINFOM	0	
SCAMIN	М	min = "1"
PICREP	0	
TXTDSC	0	
DATSTA	0	format = "ccyymmdd"
DATEND	0	format = "ccyymmdd"
PERSTA	0	format = "ccyymmdd"
PEREND	0	format = "ccyymmdd"
SORDAT	С	format = "ccyymmdd"

acronym usage constraints

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	М	value list = "1,2,3,4,5,6"
HEIGHT	М	unit = "m,ft" decimal digits = "2"
unlocd	С	
verdat	0	value list = "12,31,32,33,34,35,36,37,38,39,40,41"
OBJNAM	0	
NOBJNM	0	
INFORM	0	
NINFOM	0	
SCAMIN	М	min = "1"
PICREP	0	
TXTDSC	0	
DATSTA	0	format = "ccyymmdd"
DATEND	0	format = "ccyymmdd"
PERSTA	0	format = "ccyymmdd"
PEREND	0	format = "ccyymmdd"
SORDAT	С	format = "ccyymmdd"

acronym usage constraints

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	М	value list = "12,31,32,33,34,35,36,37,38,39,40,41"
INFORM	0	
NINFOM	0	
NTXTDS	0	
TXTDSC	0	
SORDAT	С	format = "ccyymmdd"
SORIND	С	format = "cc,cc,ccccc,c"

Feature	Waterway area
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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	М	value list = "1,2,3,4,5,6,7,8,9,10,11"
dirimp	М	value list = "1,2,3,4"
unlocd	С	
OBJNAM	0	
NOBJNM	0	
INFORM	0	
NINFOM	0	
SCAMIN	М	min = "1"
PICREP	0	
TXTDSC	0	
DATSTA	0	format = "ccyymmdd"
DATEND	0	format = "ccyymmdd"
PERSTA	0	format = "ccyymmdd"
PEREND	0	format = "ccyymmdd"
SORDAT	С	format = "ccyymmdd"
SORIND	С	format = "cc,cc,ccccc,c"

Feature	waterway axis
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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	0	value list = "1,2,3,4,5,6,7,8,9,10,11"
OBJNAM	М	
NOBJNM	0	
INFORM	0	
NINFOM	0	
SCAMIN	М	min = "1"
PICREP	0	
TXTDSC	0	
DATSTA	0	format = "ccyymmdd"
DATEND	0	format = "ccyymmdd"
PERSTA	0	format = "ccyymmdd"
PEREND	0	format = "ccyymmdd"
SORDAT	С	format = "ccyymmdd"

acronym usage constraints

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	0	value list = "1,2,3,4,5"
disipd	0	unit = "m,ft" decimal digits = "1"
disipu	0	unit = "m,ft" decimal digits = "1"
ELEVAT	0	unit = "m,ft" decimal digits = "2"
higwat	0	unit = "m,ft" decimal digits = "2"
hignam	0	
lowwat	0	unit = "m,ft" decimal digits = "2"
lownam	0	
meawat	Ο	unit = "m,ft" decimal digits = "2"
meanam	Ο	
othwat	Ο	unit = "m,ft" decimal digits = "2"
othnam	0	
reflev	0	value list = "1,2,3,4,5,6,7,8,9"
sdrlev	0	
unlocd	С	
vcrlev	0	
verdat	0	value list = "12,31,32,33,34,35,36,37,38,39,40,41"

acronym	usage	constraints
hunits	С	value list = "1,2,3,4,5,6"
wtwdis	0	decimal digits = "3"
OBJNAM	С	
NOBJNM	0	
INFORM	0	
NINFOM	0	
SCAMIN	М	min = "1"
PICREP	0	
TXTDSC	0	
DATSTA	0	format = "ccyymmdd"
DATEND	0	format = "ccyymmdd"
PERSTA	0	format = "ccyymmdd"
PEREND	0	format = "ccyymmdd"
SORDAT	С	format = "ccyymmdd"
SORIND	С	format = "cc,cc,ccccc,c"

Feature	waterway profile
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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
hunits	С	value list = "1,2,3,5,6"
wtwdis	М	decimal digits = "3"
HEIGHT	С	unit = "m,ft" decimal digits = "2"
reflev	С	value list = "1,2,3,4,5,6,7,8,9"
verdat	С	value list = "12,31,32,33,34,35,36,37,38,39,40,41"
OBJNAM	0	
NOBJNM	0	
INFORM	0	
NINFOM	0	
SCAMIN	М	min = "1"
PICREP	0	
TXTDSC	0	
DATSTA	0	format = "ccyymmdd"
DATEND	0	format = "ccyymmdd"
PERSTA	0	format = "ccyymmdd"

acronym	usage	constraints
PEREND	0	format = "ccyymmdd"
SORDAT	С	format = "ccyymmdd"
SORIND	С	format = "cc,cc,cccc,c"

Feature	Daymark	
Acronym:	daymar	Code: 17035
Type:	G	
Primitve:	Р	

Data Dictionary (DD) Reference:

DD Name: IENC Date accepted: 2009-09-11

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:

INFORM

NINFOM

0

0

acronym	usage	constraints
COLOUR	М	value list = "1,2,3,4,5,6,7,8,9,10,11,12,13"
COLPAT	С	value list = "1,2,3,4,5,6"
DATSTA	0	format = "ccyymmdd"
DATEND	0	format = "ccyymmdd"
PERSTA	0	format = "ccyymmdd"
PEREND	0	format = "ccyymmdd"
TOPSHP	М	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
ORIENT	С	unit = "deg" decimal digits = "2"
dirimp	С	value list = "1,2,3,4"
OBJNAM	0	
NOBJNM	0	

acronym	usage	constraints
SCAMIN	М	min = "1"
PICREP	0	
TXTDSC	0	
SORDAT	С	format = "ccyymmdd"
SORIND	С	format = "cc,cc,ccccc,c"

Attribute	Beacon shape

Acronym: BCNSHP Code: 2

Use Type: F

Value Type: E

Data Dictionary (DD) Reference:

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

Definition:

Enumerations

Value Data Dictionary (DD) Reference

1 DD Name: HYDRO 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)

2 DD Name: HYDRO Code: BCNSHP_2 Date accepted: 2000-11-01

Name: withy

Definition: a tree without roots stuck or spoiled into the bottom of the sea to serve as a

navigational aid.

3 DD Name: HYDRO Code: BCNSHP_3 Date accepted: 2000-11-01

Name: beacon tower

Definition: a solid structure of the order of 10 metres in height used as a navigational aid.

4 DD Name: HYDRO Code: BCNSHP_4 Date accepted: 2000-11-01

Name: lattice beacon

Definition: a structure consisting of strips of metal or wood crossed or interlaced to form a

structure to serve as an aid to navigation or as a support for an aid to navigation.

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

Value Data Dictionary (DD) Reference

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: HYDRO Date accepted: 2000-11-01

Definition:

Enumerations

Value Data Dictionary (DD) Reference

1 DD Name: HYDRO 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 upwords.

point upwards.

2 DD Name: HYDRO 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: HYDRO 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: HYDRO Code: BOYSHP_4 Date accepted: 2000-11-01

Name: pillar

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.

Value	Data Diction	onary (DD) Refe	erence	
5	DD Name:	HYDRO	Code: BOYSHP_5	Date accepted: 2000-11-01
	Name:	spar (spindle)		
			•	er-line, or the greater part of the ng cylinder, floating upright.
6	DD Name:	HYDRO	Code: BOYSHP_6	Date accepted: 2000-11-01
	Name:	barrel (tun)		
			of the body above the waterm of a barrel or cylinder flo	er-line, or the greater part of the ating horizontally.

8 DD Name: HYDRO 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: HYDRO Date accepted: 2000-11-01

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

Attribute	Category of airport/airfield
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Acronym: CATAIR Code: 7

Use Type: F

Value Type: L

Data Dictionary (DD) Reference:

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

Definition:

Enumerations

Value Data Dictionary (DD) Reference

1 DD Name: HYDRO 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: HYDRO 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)

4 DD Name: HYDRO Code: CATAIR_4 Date accepted: 2000-11-01

Name: civil heliport

Definition: a landing place for helicopters, often the roof of a building. (The Macquarie

Dictionary, 1988)

6 DD Name: HYDRO 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
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Acronym: CATBRG Code: 9

Use Type: F

Value Type: L

Data Dictionary (DD) Reference:

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

Definition:

Enumerations

Value Data Dictionary (DD) Reference

1 DD Name: HYDRO 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: HYDRO 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: HYDRO 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: HYDRO 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)

9 DD Name: HYDRO Code: CATBRG_9 Date accepted: 2000-11-01

Value Data Dictionary (DD) Reference

Name: footbridge

Definition: a bridge structure used only for pedestrian traffic. (McGraw-Hill Dictionary of

Scientific and Technical Terms, 3rd Edition, 1984)

12 DD Name: HYDRO 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
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Acronym: CATBUA Code: 10

Use Type: F

Value Type: E

Data Dictionary (DD) Reference:

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

Definition:

Enumerations

Value Data Dictionary (DD) Reference

1 DD Name: HYDRO 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: HYDRO Code: CATBUA_2 Date accepted: 2000-11-01

Name: settlement

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

3 DD Name: HYDRO 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: HYDRO 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: HYDRO Code: CATBUA_5 Date accepted: 2000-11-01

Name: city

Value Data Dictionary (DD) Reference

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

Attribute	Category of cable
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Acronym: CATCBL Code: 11

Use Type: F

Value Type: E

Data Dictionary (DD) Reference:

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

Definition:

Enumerations

Value Data Dictionary (DD) Reference

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

Name: power line

Definition: a cable used for the supply of electricity.

3 DD Name: HYDRO 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: HYDRO Code: CATCBL_4 Date accepted: 2000-11-01

Name: telephone

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

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

Name: telegraph

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

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

Name: mooring cable/chain

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

Attribute	Category of cardinal mark
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Acronym: CATCAM Code: 13

Use Type: F

Value Type: E

Data Dictionary (DD) Reference:

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

Definition:

Enumerations

Value Data Dictionary (DD) Reference

1 DD Name: HYDRO 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: HYDRO 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: HYDRO 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: HYDRO 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 coastline

Acronym: CATCOA Code: 15

Use Type: F

Value Type: E

Data Dictionary (DD) Reference:

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

Definition:

Enumerations

Value Data Dictionary (DD) Reference

1 DD Name: HYDRO Code: CATCOA_1 Date accepted: 2000-11-01

Name: steep coast

Definition: a coast backed by rock or earth cliffs, gives a good radar return and is useful for visual identification from a considerable distance off, where cliffs alternate with low lying coast along the shoreline. (IHO Chart Specifications, M-4)

2 DD Name: HYDRO Code: CATCOA_2 Date accepted: 2000-11-01

Name: flat coast

Definition: a level coast with no obvious topographic features.

3 DD Name: HYDRO Code: CATCOA_3 Date accepted: 2000-11-01

Name: sandy shore

Definition: a shoreline area made up of sand, i.e. loose material consisting of small but easily distinguishable, separate grains, between 0.0625 and 2.000 millimetres in diameter. (adapted from IHO Dictionary, \$-32, 5th Edition, 4497)

from IHO Dictionary, S-32, 5th Edition, 4497)

4 DD Name: HYDRO Code: CATCOA_4 Date accepted: 2000-11-01

Name: stony shore

Definition: a shoreline area made up of rock and rock fragments ranging in size from pebbles and gravel to boulders or large rock masses. (adapted from IHO Dictionary, S-32, 5th Edition, 5059)

Value Data Dictionary (DD) Reference

5 DD Name: HYDRO Code: CATCOA_5 Date accepted: 2000-11-01

> Name: shingly shore

Definition: a shoreline area made up of rounded, often flat waterworn rock fragments larger than approximately 16 millimetres. (adapted from IHO Dictionary, S-32, 5th Edition, 4683)

DD Name: HYDRO 6 Code: CATCOA_6 Date accepted: 2000-11-01

> Name: glacier (seaward end)

Definition: projecting seaward extension of glacier, usually afloat. Also called glacier tongue. (IHO Hydrographic Dictionary, S-32, 5th Edition, 2043)

7 DD Name: HYDRO Code: CATCOA 7 Date accepted: 2000-11-01

> Name: mangrove

Definition: one of several genera of tropical trees or shrubs which produce many prop roots and grow along low lying coasts into shallow water. (IHO Hydrographic Dictionary, S-32, 5th

Edition, 3064)

8 DD Name: HYDRO Code: CATCOA_8 Date accepted: 2000-11-01

> Name: marshy shore

Definition: a shoreline area made up of spongy land saturated with water. It may have a shallow covering of water, usually with a considerable amount of vegetation appearing above the surface. (adapted from IHO Dictionary, S-32, 5th Edition, 5240)

9 DD Name: HYDRO Code: CATCOA_9 Date accepted: 2000-11-01

> Name: coral reef

Definition: a reef, often of large extent, composed chiefly of coral and its derivatives. (IHO Dictionary, S-32, 5th Edition, 1063)

10 DD Name: HYDRO Code: CATCOA_10 Date accepted: 2000-11-01

> Name: ice coast

Definition: a vertical cliff forming the seaward edge of an ice shelf, ranging in height from 2m to 50m or more above sea level.

11 DD Name: HYDRO Code: CATCOA_11 Date accepted: 2000-11-01

> Name: shelly shore

Definition: a shoreline area made up of shells i.e. made up of the hard outside covering of marine animals.

Attribute	Category of conveyor
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Acronym: CATCON Code: 17

Use Type: F

Value Type: E

Data Dictionary (DD) Reference:

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

Definition:

Enumerations

Value Data Dictionary (DD) Reference

2 DD Name: HYDRO 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: HYDRO Date accepted: 2000-11-01

Definition:

Enumerations

Value Data Dictionary (DD) Reference

1 DD Name: HYDRO 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: HYDRO 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: HYDRO Date accepted: 2000-11-01

Definition:

Enumerations

Value Data Dictionary (DD) Reference

2 DD Name: HYDRO 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)

3 DD Name: HYDRO Code: CATCRN_3 Date accepted: 2000-11-01

Name: sheerlegs

Definition: a tripodal structure used in dockyards and harbours for stepping masts or lifting

loads in to and out of vessels.

4 DD Name: HYDRO Code: CATCRN_4 Date accepted: 2000-11-01

Name: travelling crane

Definition: a crane mounted on rails (track) that can move (usually parallel to the wharf face)

in order to load and unload cargo vessels. (Canadian Hydrographic Service)

5 DD Name: HYDRO Code: CATCRN_5 Date accepted: 2000-11-01

Name: A-frame

Definition: a type of crane shaped like the letter "A". They are often positioned on river banks or the coastline and are used for lifting logs from logging trucks and depositing them in the water. (Canadian Hydrographic Service)

Attribute Category of dam	
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Acronym: CATDAM Code: 20

Use Type: F

Value Type: E

Data Dictionary (DD) Reference:

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

Definition:

Enumerations

Value Data Dictionary (DD) Reference

1 DD Name: HYDRO 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: HYDRO 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)

3 DD Name: HYDRO Code: CATDAM_3 Date accepted: 2000-11-01

Name: flood barrage

Definition: an opening dam across a channel which, when required, is closed to control flood

waters. (IHO Chart Specifications, M-4 326.7)

Attribute	Category of distance mark
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Acronym: CATDIS Code: 21

Use Type: F

Value Type: E

Data Dictionary (DD) Reference:

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

Definition:

Enumerations

Value Data Dictionary (DD) Reference

1 DD Name: HYDRO 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: HYDRO 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: HYDRO 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: HYDRO 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: HYDRO Date accepted: 2000-11-01

Definition:

Enumerations

Value Data Dictionary (DD) Reference

1 DD Name: HYDRO 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: HYDRO 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: HYDRO Date accepted: 2000-11-01

Definition:

Enumerations

Value Data Dictionary (DD) Reference

1 DD Name: HYDRO 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: HYDRO 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: HYDRO 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: HYDRO 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).

5 DD Name: HYDRO 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: HYDRO 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: HYDRO 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: HYDRO 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: HYDRO 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: HYDRO 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: HYDRO Date accepted: 2000-11-01

Definition:

Enumerations

Value Data Dictionary (DD) Reference

1 DD Name: HYDRO 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: HYDRO 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
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Acronym: CATGAT Code: 29

Use Type: F

Value Type: E

Data Dictionary (DD) Reference:

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

Definition:

Enumerations

Value Data Dictionary (DD) Reference

2 DD Name: HYDRO Code: CATGAT_2 Date accepted: 2000-11-01

Name: flood barrage gate

Definition: lock gates are the massive hinged doors at each end of a lock. (adapted from IHO

Dictionary, S-32, 5th Edition, 2882)

4 DD Name: HYDRO 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
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Acronym: CATHAF Code: 30

Use Type: F

Value Type: L

Data Dictionary (DD) Reference:

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

Definition:

Enumerations

Value Data Dictionary (DD) Reference

5 DD Name: HYDRO 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
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Acronym: CATHLK Code: 31

Use Type: F

Value Type: L

Data Dictionary (DD) Reference:

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

Definition:

Enumerations

Value Data Dictionary (DD) Reference

1 DD Name: HYDRO 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: HYDRO 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: HYDRO 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: HYDRO 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: HYDRO Code: CATHLK_5 Date accepted: 2000-11-01

Name: floating breakwater

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

Attribute	Category of lateral mark
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Acronym: CATLAM Code: 36

Use Type: F

Value Type: E

Data Dictionary (DD) Reference:

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

Definition:

Enumerations

Value Data Dictionary (DD) Reference

1 DD Name: HYDRO 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: HYDRO 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: HYDRO 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: HYDRO Code: CATLAM_4 Date accepted: 2000-11-01

Name: preferred channel to port 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 starboard-hand lateral mark.

Attribute	Category of landmark

Acronym: CATLMK Code: 35

Use Type: F

Value Type: L

Data Dictionary (DD) Reference:

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

Definition:

Enumerations

Value Data Dictionary (DD) Reference

1 DD Name: HYDRO 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: HYDRO Code: CATLMK_2 Date accepted: 2000-11-01

Name: cemetery

Definition: an area of land for burying the dead.

3 DD Name: HYDRO 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: HYDRO 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: HYDRO Code: CATLMK 5 Date accepted: 2000-11-01

Name: flagstaff (flagpole)

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

- DIGEST 1.28)

6 DD Name: HYDRO 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: HYDRO 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: HYDRO 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: HYDRO 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: HYDRO 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: HYDRO 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.

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

Name: obelisk

Value	Data Diction	nary (DD) Refe	rence	
			ft usually of stone or concre d from Oxford English Dicti	ete, square or rectangular in section, with onary)
13	DD Name: H	HYDRO	Code: CATLMK_13	Date accepted: 2000-11-01
	Name:	statue		
	Definition:	a representation	on of a human, animal or fa	ntasy figure in marble, bronze, etc.
14	DD Name: H	HYDRO	Code: CATLMK_14	Date accepted: 2000-11-01
	Name:	cross		
	Definition:	a monument, o	or other structure in form of	a cross. (Funk and Wagnalls Dictionary)
15	DD Name: H	HYDRO	Code: CATLMK_15	Date accepted: 2000-11-01
	Name:	dome		
		a landmark co cquarie Diction		r spheroidal shaped structure (adapted
16	DD Name: H	HYDRO	Code: CATLMK_16	Date accepted: 2000-11-01
	Name:	radar scanner		
			<u> </u>	through a search pattern (adapted from ospheric Administration - NOAA, 1969)
17	DD Name: H	HYDRO	Code: CATLMK_17	Date accepted: 2000-11-01
	Name:	tower		
		-	· · · · · · · · · · · · · · · · · · ·	ed for observation, support, storage or Vorking Group -DGIWG, Oct. 1987)
18	DD Name: H	HYDRO	Code: CATLMK_18	Date accepted: 2000-11-01
	Name:	windmill		
			system of vanes attached to Digital Geographic Informa	o a tower like structure (excluding wind- tion Standard - DIGEST)
19	DD Name: H	HYDRO	Code: CATLMK_19	Date accepted: 2000-11-01
	Name:	windmotor		
	Definition:	a modern stru	cture for the use of windpov	ver. (IHO Chart Specifications, M-4)

IENC_FC_22.pdf 261

Code: CATLMK_20

Date accepted: 2000-11-01

DD Name: HYDRO

20

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: HYDRO 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).

Attribute	Category of lights
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Acronym: CATLIT Code: 37

Use Type: F

Value Type: L

Data Dictionary (DD) Reference:

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

Definition:

Enumerations

Value Data Dictionary (DD) Reference

1 DD Name: HYDRO Code: CATLIT_1 Date accepted: 2000-11-01

Name: directional function

Definition: a light illuminating a sector of very narrow angle and intended to mark a direction

to follow. (IHO Dictionary, S-32, 5th Edition, 2778)

4 DD Name: HYDRO Code: CATLIT_4 Date accepted: 2000-11-01

Name: leading light

Definition: a light associated with other lights so as to form a leading line to be followed.

(adapted from IHO Dictionary, S-32, 5th Edition, 2794)

12 DD Name: HYDRO Code: CATLIT_12 Date accepted: 2000-11-01

Name: front

Definition: terms used with leading lights to describe the position of the light on the lead as

viewed from seaward.

13 DD Name: HYDRO Code: CATLIT_13 Date accepted: 2000-11-01

Name: rear

Definition: terms used with leading lights to describe the position of the light on the lead as

viewed from seaward.

14 DD Name: HYDRO Code: CATLIT_14 Date accepted: 2000-11-01

Name: lower

Definition: terms used with leading lights to describe the position of the light on the lead as

viewed from seaward.

15 DD Name: HYDRO Code: CATLIT_15 Date accepted: 2000-11-01

Name: upper

Definition: terms used with leading lights to describe the position of the light on the lead as

viewed from seaward.

Attribute	Category of mooring/warping facility
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Acronym: CATMOR Code: 40

Use Type: F

Value Type: E

Data Dictionary (DD) Reference:

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

Definition:

Enumerations

Value Data Dictionary (DD) Reference

1 DD Name: HYDRO 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: HYDRO 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: HYDRO 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
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Acronym: CATNAV Code: 41

Use Type: F

Value Type: E

Data Dictionary (DD) Reference:

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

Definition:

Enumerations

Value Data Dictionary (DD) Reference

1 DD Name: HYDRO 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: HYDRO Code: CATNAV_2 Date accepted: 2000-11-01

Name: transit line

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

3 DD Name: HYDRO 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
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Acronym: CATOBS Code: 42

Use Type: F

Value Type: E

Data Dictionary (DD) Reference:

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

Definition:

Enumerations

Value Data Dictionary (DD) Reference

1 DD Name: HYDRO 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: HYDRO 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: HYDRO 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: HYDRO 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, e.g. submerged outfalls, diffusers etc.. They may always be dry, submerged or cover and uncover.

5 DD Name: HYDRO 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: HYDRO 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: HYDRO 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: HYDRO 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: HYDRO 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: HYDRO 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
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CATOLB Code: 44 Acronym:

Use Type: F

Value Type: Ε

Data Dictionary (DD) Reference:

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

Definition:

Enumerations

Value Data Dictionary (DD) Reference

1 DD Name: HYDRO 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: HYDRO 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
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Acronym: CATPIP Code: 47

Use Type: F

Value Type: L

Data Dictionary (DD) Reference:

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

Definition:

Enumerations

Value Data Dictionary (DD) Reference

2 DD Name: HYDRO 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: HYDRO 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: HYDRO 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: HYDRO 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 production area
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Acronym: CATPRA Code: 48

Use Type: F

Value Type: E

Data Dictionary (DD) Reference:

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

Definition:

Enumerations

Value Data Dictionary (DD) Reference

1 DD Name: HYDRO Code: CATPRA_1 Date accepted: 2000-11-01

Name: quarry

Definition: an excavation in solid rock from which building stone, limestone, etc. is removed.

2 DD Name: HYDRO Code: CATPRA_2 Date accepted: 2000-11-01

Name: mine

Definition: an excavation in the earth for the purpose of extracting earth materials.

3 DD Name: HYDRO Code: CATPRA_3 Date accepted: 2000-11-01

Name: stockpile

Definition: a reserve stock of material, equipment or other supplies.

4 DD Name: HYDRO Code: CATPRA_4 Date accepted: 2000-11-01

Name: power station area

Definition: a stationary plant containing apparatus for large-scale conversion of some form of

energy (hydraulic, steam, chemical, nuclear, etc.) into electrical energy.

5 DD Name: HYDRO Code: CATPRA_5 Date accepted: 2000-11-01

Name: refinery area

Definition: a system of process units used to convert crude petroleum into fuels, lubricants

and other petroleum-derived products.

Value	Data Dictionary (DD) Reference				
6	DD Name:	HYDRO	Code: CATPRA_6	Date accepted:	2000-11-01
	Name:	timber yard			
	Definition:	a storage area	a for wood used for building	, carpentry or joir	nery.
7	DD Name:	HYDRO	Code: CATPRA_7	Date accepted:	2000-11-01
	Name:	factory area			
	Definition:	a group of bui	ldings where goods are ma	nufactured.	
8	DD Name:	HYDRO	Code: CATPRA_8	Date accepted:	2000-11-01
	Name:	tank farm			
		an area in whi ude oil or petro	ch a number of large-capad leum products.	city storage tanks	are located, generally
9	DD Name:	HYDRO	Code: CATPRA_9	Date accepted:	2000-11-01
	Name:	wind farm			
	Definition:	an area in whi	ch numerous wind motors a	are located.	
10	DD Name:	HYDRO	Code: CATPRA_10	Date accepted:	2000-11-01
	Name:	slag heap/spo	il heap		
	Definition: Oxford Dic		om a mine, industrial plant	etc. on land (ada	pted from Concise

Attribute	Category of pylon
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Acronym: CATPYL Code: 49

Use Type: F

Value Type: E

Data Dictionary (DD) Reference:

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

Definition:

Enumerations

Value Data Dictionary (DD) Reference

1 DD Name: HYDRO 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 prestressed concrete, to support a power transmission cable or line. (adapted from Digital Geographic Information Standard - DIGEST FACC 1.2)

2 DD Name: HYDRO 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: HYDRO 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: HYDRO Code: CATPYL_4 Date accepted: 2000-11-01

Name: bridge pylon/tower

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: HYDRO 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	
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Acronym: CATRAS Code: 51

Use Type: F

Value Type: E

Data Dictionary (DD) Reference:

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

Definition:

Enumerations

Value Data Dictionary (DD) Reference

1 DD Name: HYDRO 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
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Acronym: CATREA Code: 56

Use Type: F

Value Type: L

Data Dictionary (DD) Reference:

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

Definition:

Enumerations

Value Data Dictionary (DD) Reference

4 DD Name: HYDRO 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: HYDRO Code: CATREA_5 Date accepted: 2000-11-01

Name: bird sanctuary

Definition: a place where birds are bred and protected.

9 DD Name: HYDRO 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: HYDRO 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: HYDRO Code: CATREA_19 Date accepted: 2000-11-01

Name: waiting area

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

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

Name: fish sanctuary

Definition: a place where fish are protected.

23 DD Name: HYDRO 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: HYDRO 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: HYDRO 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
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Acronym: CATROD Code: 57

Use Type: F

Value Type: E

Data Dictionary (DD) Reference:

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

Definition:

Enumerations

Value Data Dictionary (DD) Reference

1 DD Name: HYDRO 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: HYDRO Code: CATROD_2 Date accepted: 2000-11-01

Name: major road

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

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

Name: minor road

Definition: a secondary road for local traffic.

4 DD Name: HYDRO 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.

Acronym: CATRTB Code: 52

Use Type: F

Value Type: E

Data Dictionary (DD) Reference:

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

Definition:

Enumerations

Value Data Dictionary (DD) Reference

1 DD Name: HYDRO 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: HYDRO 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: HYDRO 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
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Acronym: CATSCF Code: 65

Use Type: F

Value Type: L

Data Dictionary (DD) Reference:

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

Definition:

Enumerations

Value Data Dictionary (DD) Reference

1 DD Name: HYDRO 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: HYDRO 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: HYDRO Code: CATSCF_3 Date accepted: 2000-11-01

Name: boat hoist

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

4 DD Name: HYDRO 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: HYDRO Code: CATSCF_5 Date accepted: 2000-11-01

Name: boatyard

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

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

Value Data Dictionary (DD) Reference

Name: public inn

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

English Dictionary, 1992)

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

Name: restaurant

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

1992)

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

Name: chandler

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

9 DD Name: HYDRO Code: CATSCF 9 Date accepted: 2000-11-01

Name: provisions

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

10 DD Name: HYDRO 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: HYDRO Code: CATSCF 11 Date accepted: 2000-11-01

Name: pharmacy

Definition: a place where medical drugs are dispensed.

12 DD Name: HYDRO Code: CATSCF 12 Date accepted: 2000-11-01

Name: water tap

Definition: a place where fresh water is available.

13 DD Name: HYDRO Code: CATSCF 13 Date accepted: 2000-11-01

Name: fuel station

Definition: a place where fuel is available.

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

Name: electricity

Value	Data Dictionary (DD) Re	ference	
	Definition: a place when	re a connection to an electri	cal supply is available.
15	DD Name: HYDRO	Code: CATSCF_15	Date accepted: 2000-11-01
	Name: bottle gas		
	Definition: a place when	re bottled gas is available.	
16	DD Name: HYDRO	Code: CATSCF_16	Date accepted: 2000-11-01
	Name: showers		
	Definition: a place when	re showers are available.	
17	DD Name: HYDRO	Code: CATSCF_17	Date accepted: 2000-11-01
	Name: launderette		
	Definition: a place when	e there are facilities for was	shing clothes.
18	DD Name: HYDRO	Code: CATSCF_18	Date accepted: 2000-11-01
	Name: public toilets		
	Definition: a place when	e toilets are available for pu	ıblic use.
19	DD Name: HYDRO	Code: CATSCF_19	Date accepted: 2000-11-01
	Name: post box		
	Definition: a place when	re mail may be posted.	
20	DD Name: HYDRO	Code: CATSCF_20	Date accepted: 2000-11-01
	Name: public teleph	one	
	Definition: a place when	e a telephone is available fo	or public use.
21	DD Name: HYDRO	Code: CATSCF_21	Date accepted: 2000-11-01
	Name: refuse bin		
	Definition: a place when	re refuse may be dumped.	
22	DD Name: HYDRO	Code: CATSCF_22	Date accepted: 2000-11-01
	Name: car park		
	Definition: a place when	re cars may be parked.	
23	DD Name: HYDRO	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: HYDRO 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: HYDRO Code: CATSCF 25 Date accepted: 2000-11-01

Name: camping site

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

26 DD Name: HYDRO 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: HYDRO 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: HYDRO 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: HYDRO 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: HYDRO Code: CATSCF_30 Date accepted: 2000-11-01

Name: scrubbing berth

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

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

Name: picnic area

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

Value	Data Dictionar	y (DD) Reference
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32 DD Name: HYDRO 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: HYDRO 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
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Acronym: CATSEA Code: 59

Use Type: F

Value Type: E

Data Dictionary (DD) Reference:

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

Definition:

Enumerations

Value Data Dictionary (DD) Reference

13 DD Name: HYDRO Code: CATSEA_13 Date accepted: 2000-11-01

Name: shoal

Definition: an offshore hazard to surface navigation that is composed of unconsolidated material. (adapted from IHO-IOC Publication B-6, Standardization of Undersea Feature

Names, 2nd Edition)

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

Name: canal

Definition: an artificial water course used for navigation.

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

Name: river

Definition: a relatively large natural stream of water.

Attribute	Category of shoreline construction
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Acronym: CATSLC Code: 60

Use Type: F

Value Type: E

Data Dictionary (DD) Reference:

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

Definition:

Enumerations

Value Data Dictionary (DD) Reference

1 DD Name: HYDRO 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: HYDRO 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: HYDRO 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: HYDRO Code: CATSLC 5 Date accepted: 2000-11-01

Name: promenade pier

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

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

Value Data Dictionary (DD) Reference

Name: wharf (quay)

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

Edition, 5985)

7 DD Name: HYDRO 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: HYDRO 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: HYDRO 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: HYDRO 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: HYDRO 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: HYDRO Code: CATSLC_12 Date accepted: 2000-11-01

Name: ramp

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)

Value Data Dictionary (DD) Reference

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

Name: slipway

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

4775)

14 DD Name: HYDRO 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: HYDRO 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 shiphandling; 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: HYDRO 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 silo/tank
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Acronym: CATSIL Code: 63

Use Type: F

Value Type: E

Data Dictionary (DD) Reference:

DD Name: HYDRO Date accepted: 2008-01-31

Definition:

Enumerations

Value Data Dictionary (DD) Reference

1 DD Name: HYDRO Code: CATSIL_1 Date accepted: 2000-11-01

Name: silo in general

Definition: a generally cylindrical tower used for storing fodder or grain.

2 DD Name: HYDRO Code: CATSIL_2 Date accepted: 2000-11-01

Name: tank in general

Definition: a fixed structure for storing liquids. (IHO Dictionary, S-32, 5th Edition, 5290)

3 DD Name: HYDRO Code: CATSIL_3 Date accepted: 2000-11-01

Name: grain elevator

Definition: a storage building for grain. Usually a tall frame, metal or concrete structure with an especially compartmented interior. (The New Encyclopaedia Britannica Micropaedia, 15th

Edition).

4 DD Name: HYDRO Code: CATSIL_4 Date accepted: 2000-11-01

Name: water tower

Definition: a tower with an elevated container used to hold water.

Attribute	Category of slope

Acronym: CATSLO Code: 64

Use Type: F

Value Type: E

Data Dictionary (DD) Reference:

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

Definition:

Enumerations

Value Data Dictionary (DD) Reference

2 DD Name: HYDRO 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: HYDRO 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)

6 DD Name: HYDRO Code: CATSLO_6 Date accepted: 2000-11-01

Name: cliff

Definition: land rising abruptly for a considerable distance above the water or surrounding

land. (IHO Dictionary, S-32, 5th Edition, 829)

Attribute	Category of special purpose mark
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Acronym: CATSPM Code: 66

Use Type: F

Value Type: L

Data Dictionary (DD) Reference:

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

Definition:

Enumerations

Value Data Dictionary (DD) Reference

6 DD Name: HYDRO 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: HYDRO Code: CATSPM_10 Date accepted: 2000-11-01

Name: recording mark

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

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

Name: recreation zone mark

Definition: a mark used to indicate a recreation zone.

37 DD Name: HYDRO 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: HYDRO Code: CATSPM_39 Date accepted: 2000-11-01

Name: pipeline mark

Value	Data Dictionary (DD) R	eference	
	Definition: a mark used to indicate the position of submarine pipelines or the point at whice they run on to the land.		
41	DD Name: HYDRO	Code: CATSPM_41	Date accepted: 2000-11-01
	Name: clearing ma	rk	
	Definition: a mark use	d to indicate a clearing line.	
45	DD Name: HYDRO	Code: CATSPM_45	Date accepted: 2000-11-01
	Name: foul ground	mark	
	Definition: a mark indi	cating a foul ground.	
50	DD Name: HYDRO	Code: CATSPM_50	Date accepted: 2000-11-01
	Name: entry prohib	ited mark	
	Definition: a mark indicating that entry is prohibited.		
54	DD Name: HYDRO	Code: CATSPM_54	Date accepted: 2000-11-01
	Name: channel sep	paration mark	
	Definition: a mark indicating the point at which a channel divides separately into two channels.		
55	DD Name: HYDRO	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
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Code: 54 **CATTRK** Acronym:

Use Type: F

Ε Value Type:

Data Dictionary (DD) Reference:

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

Definition:

Enumerations

Value Data Dictionary (DD) Reference

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

> based on a system of fixed marks Name:

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: HYDRO 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: HYDRO Date accepted: 2000-11-01

Definition:

Enumerations

Value Data Dictionary (DD) Reference

6 DD Name: HYDRO 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: HYDRO 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	
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Acronym: CATWRK Code: 71

Use Type: F

Value Type: E

Data Dictionary (DD) Reference:

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

Definition:

Enumerations

Value Data Dictionary (DD) Reference

1 DD Name: HYDRO 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: HYDRO Code: CATWRK_2 Date accepted: 2000-11-01

Name: dangerous wreck

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

3 DD Name: HYDRO Code: CATWRK_3 Date accepted: 2000-11-01

Name: distributed remains of wreck

Definition: (foul ground) an area 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)

4 DD Name: HYDRO Code: CATWRK_4 Date accepted: 2000-11-01

Name: wreck showing mast/masts

Definition: wreck of which only the mast(s) is visible at the sounding datum indicated.

5 DD Name: HYDRO Code: CATWRK_5 Date accepted: 2000-11-01

Name: wreck showing any portion of hull or superstructure

Definition: wreck of which any portion of the hull or superstructure is visible at the sounding

datum indicated.

Attribute	Category of zone of confidence in data
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Acronym: CATZOC Code: 72

Use Type: F

Value Type: E

Data Dictionary (DD) Reference:

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

Definition:

Enumerations

Value Data Dictionary (DD) Reference

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

Name: zone of confidence A1

Definition:

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

Name: zone of confidence A2

Definition:

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

Name: zone of confidence B

Definition:

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

Name: zone of confidence C

Definition:

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

Name: zone of confidence D

Definition:

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

Value Data Dictionary (DD) Reference

Name: zone of confidence U (data not assessed)

Definition:

Attribute

Acronym: COLOUR Code: 75

Use Type: F

Value Type: L

Data Dictionary (DD) Reference:

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

Definition:

Enumerations

Value	Data Dictionary (DD) Re	eference	
1	DD Name: HYDRO	Code: COLOUR_1	Date accepted: 2000-11-01
	Name: white		
	Definition:		
2	DD Name: HYDRO	Code: COLOUR_2	Date accepted: 2000-11-01
	Name: black		
	Definition:		
3	DD Name: HYDRO	Code: COLOUR_3	Date accepted: 2000-11-01
	Name: red		
	Definition:		
4	DD Name: HYDRO	Code: COLOUR_4	Date accepted: 2000-11-01
	Name: green		
	Definition:		
5	DD Name: HYDRO	Code: COLOUR_5	Date accepted: 2000-11-01
	Name: blue		
	Definition:		
6	DD Name: HYDRO	Code: COLOUR_6	Date accepted: 2000-11-01

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

Attribute	Colour pattern
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Acronym: COLPAT Code: 76

Use Type: F

Value Type: L

Data Dictionary (DD) Reference:

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

Definition:

Enumerations

Value Data Dictionary (DD) Reference

1 DD Name: HYDRO Code: COLPAT_1 Date accepted: 2000-11-01

Name: horizontal stripes

Definition: straight bands or stripes of differing colours painted horizontally.

2 DD Name: HYDRO Code: COLPAT_2 Date accepted: 2000-11-01

Name: vertical stripes

Definition: straight bands or stripes of differing colours painted vertically.

3 DD Name: HYDRO 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: HYDRO 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: HYDRO Code: COLPAT_5 Date accepted: 2000-11-01

Name: stripes (direction unknown)

Definition: straight bands or stripes of differing colours painted in an unknown direction.

Value Data Dictionary (DD) Reference

6 DD Name: HYDRO 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	
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Acronym: COMCHA Code: 77

Use Type: F

Value Type: S

Data Dictionary (DD) Reference:

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

Definition: A channel number assigned to a specific radio frequency, frequencies or frequency

band.

Attribute	Conspicuous, radar
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Acronym: CONRAD Code: 82

Use Type: F

Value Type: E

Data Dictionary (DD) Reference:

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

Definition:

Enumerations

Value Data Dictionary (DD) Reference

3 DD Name: HYDRO 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
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Acronym: CONVIS Code: 83

Use Type: F

Value Type: E

Data Dictionary (DD) Reference:

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

Definition:

Enumerations

Value Data Dictionary (DD) Reference

1 DD Name: HYDRO 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: HYDRO 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
Attribute	Date end

Acronym: DATEND Code: 85

Use Type: F

Value Type: S

Data Dictionary (DD) Reference:

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

Definition: The latest date on which an object (e.g., a buoy) will be present.

Attribute Date start	
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Acronym: DATSTA Code: 86

Use Type: F

Value Type: S

Data Dictionary (DD) Reference:

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

Definition: The minimum (shoalest) value of a depth range.

Attribute

Acronym: DRVAL2 Code: 88

Use Type: F

Value Type: F

Data Dictionary (DD) Reference:

DD Name: HYDRO 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: HYDRO 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

Data Dictionary (DD) Reference:

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

Definition:

Enumerations

Value Data Dictionary (DD) Reference

1 DD Name: HYDRO 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: HYDRO Code: EXCLIT_2 Date accepted: 2000-11-01

Name: daytime light

Definition: a light which is only exhibited by day.

3 DD Name: HYDRO 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: HYDRO 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

Data Dictionary (DD) Reference:

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

Definition:

Enumerations

Value Data Dictionary (DD) Reference

2 DD Name: HYDRO 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: HYDRO Code: FUNCTN_3 Date accepted: 2000-11-01

Name: custom office

Definition: an office which is charged with enforcing customs regulations.

4 DD Name: HYDRO 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: HYDRO 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: HYDRO Code: FUNCTN_6 Date accepted: 2000-11-01

Name: post office

Value Data Dictionary (DD) Reference

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: HYDRO 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: HYDRO 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: HYDRO Code: FUNCTN 9 Date accepted: 2000-11-01

Name: police station

Definition: the office of the local police force.

10 DD Name: HYDRO Code: FUNCTN 10 Date accepted: 2000-11-01

Name: water-police station

Definition: the headquarters of a local water-police force.

11 DD Name: HYDRO 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: HYDRO 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: HYDRO Code: FUNCTN_13 Date accepted: 2000-11-01

Name: bank office

Definition: an office for custody, deposit, loan, exchange or issue of money. (adapted from The New Shorter Oxford English Dictionary, 1993)

Value	Data Dictionary (DD) Reference			
14	DD Name: HYDRO	Code: FUNCTN_14	Date accepted: 2000-11-01	
	Name: headquarte	ers for district control		
	Definition: the quarters of an executive officer (director, manager, etc.) with responsibility fo an administrative area.			
15	DD Name: HYDRO	Code: FUNCTN_15	Date accepted: 2000-11-01	
	Name: transit shed	d/warehouse		
	_	or part of a building for storag nglish Dictionary, 1993)	ge of wares or goods. (adapted from The	
16	DD Name: HYDRO	Code: FUNCTN_16	Date accepted: 2000-11-01	
	Name: factory			
	Definition: a building of Shorter Oxford English	•	or manufacturing; a workshop. (The New	
17	DD Name: HYDRO	Code: FUNCTN_17	Date accepted: 2000-11-01	
	Name: power stati	on		
	of energy (such as hyd	raulic, steam, chemical or nu	for large scale conversion of some form clear energy) into electrical energy. Terms, 3rd Edition, 1984)	
		y or coloritino and recrimear		
18	DD Name: HYDRO	Code: FUNCTN_18	Date accepted: 2000-11-01	
18		Code: FUNCTN_18	Date accepted: 2000-11-01	
18	DD Name: HYDRO Name: administrat	Code: FUNCTN_18 ive or the management of affairs	Date accepted: 2000-11-01 s. (adapted from The New Shorter Oxford	
18	DD Name: HYDRO Name: administrate Definition: a building f	Code: FUNCTN_18 ive or the management of affairs	·	
	DD Name: HYDRO Name: administrat Definition: a building f English Dictionary, 199	Code: FUNCTN_18 ive for the management of affairs (3) Code: FUNCTN_19	s. (adapted from The New Shorter Oxford	
	DD Name: HYDRO Name: administrat Definition: a building f English Dictionary, 199 DD Name: HYDRO Name: educationa	Code: FUNCTN_18 ive for the management of affairs (3) Code: FUNCTN_19 I facility	s. (adapted from The New Shorter Oxford	
	DD Name: HYDRO Name: administrat Definition: a building f English Dictionary, 199 DD Name: HYDRO Name: educationa	Code: FUNCTN_18 ive for the management of affairs (3) Code: FUNCTN_19 I facility	s. (adapted from The New Shorter Oxford Date accepted: 2000-11-01	
19	DD Name: HYDRO Name: administrate Definition: a building of English Dictionary, 199 DD Name: HYDRO Name: educational Definition: a building of the control of the contr	Code: FUNCTN_18 ive or the management of affairs (3) Code: FUNCTN_19 I facility concerned with education (eg	Date accepted: 2000-11-01 g. school, college, university, etc.)	
19	DD Name: HYDRO Name: administrate Definition: a building of English Dictionary, 199 DD Name: HYDRO Name: educational Definition: a building of DD Name: HYDRO Name: church	Code: FUNCTN_18 ive or the management of affairs 3) Code: FUNCTN_19 I facility concerned with education (eg	Date accepted: 2000-11-01 g. school, college, university, etc.)	

Value Data Dictionary (DD) Reference

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: HYDRO 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: HYDRO 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: HYDRO 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: HYDRO Code: FUNCTN_25 Date accepted: 2000-11-01

Name: buddhist temple

Definition: see pagoda.

26 DD Name: HYDRO 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: HYDRO Code: FUNCTN_27 Date accepted: 2000-11-01

Name: marabout

Definition: a shrine marking the burial place of a Muslim holy man. (The New Shorter Oxford

English Dictionary, 1993)

28 DD Name: HYDRO Code: FUNCTN_28 Date accepted: 2000-11-01

Name: lookout

Name:

observation

Value	Data Dictionary (DD) Re	eference	
	Definition: keeping a w Dictionary, S-32,5th Edi	•	along the coast. (adapted from IHO
29	DD Name: HYDRO	Code: FUNCTN_29	Date accepted: 2000-11-01
	Name: communicat	ion	
	•	and/or receiving electronic mation Standard - DIGEST)	communication signals. (adapted from
30	DD Name: HYDRO	Code: FUNCTN_30	Date accepted: 2000-11-01
	Name: television		
	Definition: broadcast o	f television signals.	
31	DD Name: HYDRO	Code: FUNCTN_31	Date accepted: 2000-11-01
	Name: radio		
	Definition: broadcast o	f radio signals.	
32	DD Name: HYDRO	Code: FUNCTN_32	Date accepted: 2000-11-01
	Name: radar		
			beamed, reflected, and timed radio waves neasuring altitudes. (IHO Dictionary, S-32,
33	DD Name: HYDRO	Code: FUNCTN_33	Date accepted: 2000-11-01
	Name: light support		
	Definition: supporting a	a light	
34	DD Name: HYDRO	Code: FUNCTN_34	Date accepted: 2000-11-01
	Name: microwave		
	Definition: broadcastin	g and receiving signals usin	g microwaves.
35	DD Name: HYDRO	Code: FUNCTN_35	Date accepted: 2000-11-01
	Name: cooling		
	Definition: dissipating I	neat.	
36	DD Name: HYDRO	Code: FUNCTN_36	Date accepted: 2000-11-01
	Name: absorvation		

Value	Data Diction	nary (DD) Refe	rence	
		•	hich the surroundings can apted from IHO Dictionary,	be observed but at which a watch is not S-32, 5th Edition,2917)
37	DD Name: H	HYDRO	Code: FUNCTN_37	Date accepted: 2000-11-01
	Name:	time ball		
	Definition:	a visual time si	gnal in form of a ball	
38	DD Name: H	HYDRO	Code: FUNCTN_38	Date accepted: 2000-11-01
	Name:	clock		
	Definition:	visual time sigr	nal. (adapted from S-32, 5tl	n Edition, 5536)
39	DD Name: H	HYDRO	Code: FUNCTN_39	Date accepted: 2000-11-01
	Name:	control		
		used to control Standard - DIG		ne traffic. (Digital Geographic
40	DD Name: H	HYDRO	Code: FUNCTN_40	Date accepted: 2000-11-01
	Name:	airship mooring)	
	Definition: Standard - D	•	eure an airship. (adapted fro	om Digital Geographic Information
41	DD Name: H	HYDRO	Code: FUNCTN_41	Date accepted: 2000-11-01
	Name:	stadium		
	Definition:	a large usually	unroofed building with tiers	s of seats for spectators
42	DD Name: H	HYDRO	Code: FUNCTN_42	Date accepted: 2000-11-01
	Name: I	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: HYDRO 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: HYDRO 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 Ho	Horizontal length
--------------	-------------------

Acronym: HORLEN Code: 99

Use Type: F

Value Type: F

Data Dictionary (DD) Reference:

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

Definition: A measurement of the longer of two linear axis. (Digital Geographic Information

Working Group -DGIWG, Oct.87)

Attribute

Acronym: **HORWID** Code: 100

Use Type: F

Value Type: F

Data Dictionary (DD) Reference:

DD Name: HYDRO 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

Data Dictionary (DD) Reference:

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

Definition: .

Enumerations

Value Data Dictionary (DD) Reference

1 DD Name: HYDRO 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: HYDRO Code: JRSDTN_2 Date accepted: 2000-11-01

Name: national

Definition: an area administered or controlled by a single nation.

3 DD Name: HYDRO 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: HYDRO Date accepted: 2000-11-01

Definition:

Enumerations

Value Data Dictionary (DD) Reference

1 DD Name: HYDRO 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: HYDRO 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: HYDRO 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: HYDRO 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)

7 DD Name: HYDRO Code: LITCHR_7 Date accepted: 2000-11-01

Value Data Dictionary (DD) Reference

Name: isophased

Definition: a light with all durations of light and darkness equal. (IHO Dictionary, S-32, 5th

Edition, 2779)

9 DD Name: HYDRO 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 Light visibility

Acronym: LITVIS Code: 108

Use Type: F

Value Type: L

Data Dictionary (DD) Reference:

DD Name: HYDRO Date accepted: 2008-01-31

Definition:

Enumerations

Value Data Dictionary (DD) Reference

4 DD Name: HYDRO Code: LITVIS_4 Date accepted: 2000-11-01

Name: intensified

Definition: a light in a sector is intensified (i.e. has longer range than other sectors).

(Bundesamt für Seeschiffahrt und Hydrographie, Germany)

Attribute	Marks navigational - System of
-----------	--------------------------------

Acronym: MARSYS Code: 109

Use Type: F

Value Type: E

Data Dictionary (DD) Reference:

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

Definition:

Enumerations

Value Data Dictionary (DD) Reference

1 DD Name: HYDRO Code: MARSYS_1 Date accepted: 2000-11-01

Name: IALA A

Definition: navigational aids conform to the International Association of Lighthouse

Authorities - IALA A system.

2 DD Name: HYDRO Code: MARSYS_2 Date accepted: 2000-11-01

Name: IALA B

Definition: navigational aids conform to the International Association of Lighthouse

Authorities - IALA B system.

Attribute

Acronym: MLTYLT Code: 110

Use Type: F

Value Type:

Data Dictionary (DD) Reference:

DD Name: HYDRO 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

Data Dictionary (DD) Reference:

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

Definition:

Enumerations

Value Data Dictionary (DD) Reference

1 DD Name: HYDRO Code: NATCON_1 Date accepted: 2000-11-01

Name: masonry

Definition: constructed of brick or stone.

2 DD Name: HYDRO 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)

Contemporary Dictionary, Encyclopaedic Edition, 1978)

3 DD Name: HYDRO 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: HYDRO 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.

5 DD Name: HYDRO Code: NATCON_5 Date accepted: 2000-11-01

Value Data Dictionary (DD) Reference

Name: unsurfaced

Definition: constructed with no extra protection, usually a term applied to roads not surfaced

with a hard material.

6 DD Name: HYDRO Code: NATCON_6 Date accepted: 2000-11-01

Name: wooden

Definition: constructed from wood.

7 DD Name: HYDRO Code: NATCON_7 Date accepted: 2000-11-01

Name: metal

Definition: constructed from metal.

8 DD Name: HYDRO 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: HYDRO Code: NATCON_9 Date accepted: 2000-11-01

Name: painted

Definition: the application of paint to some other construction or natural feature.

Attribute Nationali	
---------------------	--

Acronym: NATION Code: 111

Use Type: F

Value Type: S

Data Dictionary (DD) Reference:

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

Definition: The nationality of the specific objec

Attribute	Natural surface

Acronym: NATSUR Code: 113

Use Type: F

Value Type: L

Data Dictionary (DD) Reference:

DD Name: HYDRO Date accepted: 2008-01-31

Definition:

Enumerations

Value Data Dictionary (DD) Reference

1 DD Name: HYDRO Code: NATSUR_1 Date accepted: 2000-11-01

Name: mud

Definition: soft, wet earth

2 DD Name: HYDRO Code: NATSUR_2 Date accepted: 2000-11-01

Name: clay

Definition: (particles of less than 0.002 mm); stiff, sticky earth that becomes hard when

baked.

3 DD Name: HYDRO Code: NATSUR_3 Date accepted: 2000-11-01

Name: silt

Definition: (particles of 0.002-0.0625 mm); when dried on hand will rub off easily.

4 DD Name: HYDRO Code: NATSUR_4 Date accepted: 2000-11-01

Name: sand

Definition: (particles of 0.0625-2.0 mm); tiny grains of crushed or worn rock.

5 DD Name: HYDRO Code: NATSUR_5 Date accepted: 2000-11-01

Name: stone

Definition: a general term for rock fragments ranging in size from pebbles and gravel to

boulders or a large rock mass. (IHO Dictionary, S-32, 5th Edition, 5059)

Value	Data Dictionary (DD) R	eference		
6	DD Name: HYDRO	Code: NATSUR_6	Date accepted: 2000-11-01	
	Name: gravel			
	Definition: (particles of	2.0-4.0 mm); small stones	with coarse sand.	
7	DD Name: HYDRO	Code: NATSUR_7	Date accepted: 2000-11-01	
	Name: pebbles			
	Definition: (particles of in water.	4.0-64.0 mm); small stones	s made smooth and round by being rolled	
8	DD Name: HYDRO	Code: NATSUR_8	Date accepted: 2000-11-01	
	Name: cobbles			
	Definition: (particles of for paving.	64.0-256.0 mm); stones wo	orn round and smooth by water and used	
9	DD Name: HYDRO	Code: NATSUR_9	Date accepted: 2000-11-01	
	Name: rock			
	Definition: any formation of natural origin that constitutes an integral part of the lithosphere. The natural occurring material that forms firm, hard, and solid masses. (adapted from IHO Dictionary, S-32, 5th Edition, 4415)			
11	DD Name: HYDRO	Code: NATSUR_11	Date accepted: 2000-11-01	
	Name: lava			
	Definition: the fluid or semi-fluid matter flowing from a volcano. The substance that results from the cooling of the molten rock. Part of the ocean bed is composed of lava. (IHO Dictionary, S-32, 5th Edition, 2680)			
14	DD Name: HYDRO	Code: NATSUR_14	Date accepted: 2000-11-01	
	Name: coral			
	Definition: hard calcar 5th Edition, 1061)	eous skeletons of many tribe	es of marine polyps. (IHO Dictionary, S-32,	
17	DD Name: HYDRO	Code: NATSUR_17	Date accepted: 2000-11-01	
	Name: shells			
	Definition: exoskeletor	ns of various water dwelling	animals. (adapted from IHO Dictionary,	

IENC_FC_22.pdf 333

S-32, 5th Edition, 4680)

Value Data Dictionary (DD) Reference

18 DD Name: HYDRO Code: NATSUR_18 Date accepted: 2000-11-01

Name: boulder

Definition: a rounded rock with diameter of 256 mm or larger. (adapted from IHO Dictionary,

S-32, 5th Edition, 527)

Attribute	Information in national language
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Acronym: NINFOM Code: 300

Use Type: N

Value Type: T

Data Dictionary (DD) Reference:

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

Definition: The individual name of an object.

Attribute

Acronym: ORIENT Code: 117

Use Type: F

Value Type: F

Data Dictionary (DD) Reference:

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

Definition: Indicates whether a pictorial representation of the object is available.

Attribute Positional Accuracy	
-------------------------------	--

Acronym: POSACC Code: 401

Use Type: F,S

Value Type: F

Data Dictionary (DD) Reference:

DD Name: HYDRO 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

Data Dictionary (DD) Reference:

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

Definition:

Enumerations

Value Data Dictionary (DD) Reference

1 DD Name: HYDRO 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: HYDRO 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: HYDRO 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: HYDRO 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: HYDRO Code: PRODCT_5 Date accepted: 2000-11-01

Name: coal

Value Data Dictionary (DD) Reference

Definition: a hard black mineral that is burned as fuel. (adapted from the Oxford Minidictionary, Third Edition)

6 DD Name: HYDRO 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: HYDRO 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: HYDRO 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: HYDRO 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: HYDRO 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: HYDRO 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: HYDRO Code: PRODCT_21 Date accepted: 2000-11-01

Name: cement

Definition: a substance made of powdered lime and clay, mixed with water. (adapted from the Websters New World Dictionary)

Value Data Dictionary (DD) Reference

22 DD Name: HYDRO 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
-----------	---------------------

Code: 402 Acronym: **QUAPOS**

Use Type: F,S

Value Type: Ε

Data Dictionary (DD) Reference:

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

Definition:

Enumerations

Value Data Dictionary (DD) Reference

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

Definition:

Enumerations

Value Data Dictionary (DD) Reference

1 DD Name: HYDRO 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: HYDRO 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: HYDRO 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: HYDRO 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: HYDRO Code: QUASOU_11 Date accepted: 2000-11-01

Name: not regularly maintained

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: HYDRO 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 Restriction

Acronym: RESTRN Code: 131

Use Type: F

Value Type: L

Data Dictionary (DD) Reference:

DD Name: HYDRO 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: HYDRO 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:

Data Dictionary (DD) Reference:

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

Definition: The minimum scale at which the object may be used e.g. for ECDIS presentation.

Attribute	Sector limit one
-----------	------------------

Acronym: SECTR1 Code: 136

Use Type: F

Value Type: F

Data Dictionary (DD) Reference:

DD Name: HYDRO Date accepted: 2008-01-31

Definition: A sector is the part of a circle between two straight lines drawn from the centre to the

circumference. (Advanced Learner=s Dictionary, 2nd Edition) Sector limit 1 specifies the first limit of the sector. The order of sector limit 1 and sector limit 2 is clockwise

around the central object (e.g. a light).

Attribute	Sector limit two
-----------	------------------

Acronym: SECTR2 Code: 137

Use Type: F

Value Type: F

Data Dictionary (DD) Reference:

DD Name: HYDRO Date accepted: 2008-01-31

Definition: A sector is the part of a circle between two straight lines drawn from the centre to

the circumference. (Advanced Learner=s Dictionary, 2nd Edition) The sector limit 2 specifies the second limit of the sector. The order of sector limit 1 and sector limit 2 is

clockwise around the central object (e.g. a light).

Acronym: SIGFRQ Code: 139

Use Type: F

Value Type:

Data Dictionary (DD) Reference:

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

Definition: The frequency of a signal.

Attribute Signal generation

Acronym: SIGGEN Code: 140

Use Type: F

Value Type: E

Data Dictionary (DD) Reference:

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

Definition:

Enumerations

Value Data Dictionary (DD) Reference

1 DD Name: HYDRO 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: HYDRO 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: HYDRO 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: HYDRO Date accepted: 2000-11-01

Definition: The time occupied by an entire cycle of intervals of light and eclipse.

Attribute

Acronym: SIGSEQ Code: 143

Use Type: F

Value Type: S

Data Dictionary (DD) Reference:

DD Name: HYDRO 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 Source date	
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Acronym: SORDAT Code: 147

Use Type: F

Value Type: S

Data Dictionary (DD) Reference:

DD Name: HYDRO 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: HYDRO 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: HYDRO 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	
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Acronym: STATUS Code: 149

Use Type: F

Value Type: L

Data Dictionary (DD) Reference:

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

Definition:

Enumerations

Value Data Dictionary (DD) Reference

2 DD Name: HYDRO 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: HYDRO 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: HYDRO Code: STATUS_4 Date accepted: 2000-11-01

Name: not in use

Definition: no longer used for the purpose intended; disused.

8 DD Name: HYDRO Code: STATUS_8 Date accepted: 2000-11-01

Name: private

Definition: not in public ownership or operation.

9 DD Name: HYDRO Code: STATUS_9 Date accepted: 2000-11-01

Name: mandatory

Definition: compulsory; enforced. (The Concise Oxford Dictionary, 7th Edition)

Value	Data Dictionary (DD) Reference						
12	DD Name:	HYDRO	Code: STATUS_12	Date accepted:	2000-11-01		
	Name:	illuminated					
	Definition:	Definition: lit by floodlights, strip lights, etc.					
14	DD Name:	HYDRO	Code: STATUS_14	Date accepted:	2000-11-01		
	Name:	public					
			available to, used or shared adapted from The New Sho	•	•		
16	DD Name:	HYDRO	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 an movement or change. (adapted from The New Shorter Oxford English Dictionary, 1993)						
17	DD Name:	HYDRO	Code: STATUS_17	Date accepted:	2000-11-01		
	Name:	un-watched					
	Definition: usually automatic in operation, without any permanently-stationed personnel t superintend it. (adapted from IHO Dictionary, S-32, 5th Edition, 2814)						
18	DD Name:	HYDRO	Code: STATUS_18	Date accepted:	2000-11-01		
	Name:	existence dou	btful				

Definition: an object that has been reported but has not been definitely determined to exist.

Attribute	Survey authority
-----------	------------------

Acronym: SURATH Code: 150

Use Type: F

Value Type: T

Data Dictionary (DD) Reference:

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

Definition:

Enumerations

Value Data Dictionary (DD) Reference

2 DD Name: HYDRO 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
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TECSOU Code: 156 Acronym:

Use Type: F

Value Type: L

Data Dictionary (DD) Reference:

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

Definition:

Enumerations

Value Data Dictionary (DD) Reference

1 DD Name: HYDRO 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: HYDRO 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: HYDRO 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: HYDRO 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: HYDRO 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: HYDRO 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: HYDRO 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: HYDRO 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: HYDRO 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: HYDRO 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: HYDRO Code: TECSOU_11 Date accepted: 2000-11-01

Name: satellite imagery

Value Data Dictionary (DD) Reference

Definition: the depth was determined by using instruments placed aboard an artificial satellite. (adapted from IHO Dictionary, S-32, 4509)

12 DD Name: HYDRO 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: HYDRO 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: HYDRO 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: HYDRO Date accepted: 2000-11-01

Definition:

Enumerations

Value Data Dictionary (DD) Reference

1 DD Name: HYDRO Code: TOPSHP_1 Date accepted: 2000-11-01

Name: cone, point up

Definition: is where the vertex points up.

2 DD Name: HYDRO Code: TOPSHP_2 Date accepted: 2000-11-01

Name: cone, point down

Definition: is where the vertex points down.

3 DD Name: HYDRO 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: HYDRO 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: HYDRO Code: TOPSHP_5 Date accepted: 2000-11-01

Name: cylinder (can)

Value Data Dictionary (DD) Reference

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: HYDRO 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: HYDRO 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: HYDRO 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: HYDRO Code: TOPSHP_9 Date accepted: 2000-11-01

Name: cube, point up

Definition: a cube standing on one of its vertexes.

10 DD Name: HYDRO 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: HYDRO Code: TOPSHP_11 Date accepted: 2000-11-01

Name: 2 cones, base to base

Definition: 2 cones, one above the other, with their bases together in the centre and their

vertices pointing up and down.

12 DD Name: HYDRO Code: TOPSHP_12 Date accepted: 2000-11-01

Value Data Dictionary (DD) Reference

> 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)

DD Name: HYDRO 13 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: HYDRO 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: HYDRO 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: HYDRO 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: HYDRO Code: TOPSHP_17 Date accepted: 2000-11-01

> Name: flag

Definition: a flag mounted on a short pole.

18 DD Name: HYDRO Code: TOPSHP_18 Date accepted: 2000-11-01

> sphere over rhombus Name:

Definition: A sphere located above a rhombus.

19 DD Name: HYDRO Date accepted: 2000-11-01 Code: TOPSHP_19

> Name: square

Definition: a plane figure with four right angles and four equal straight sides (The New

Shorter Oxford English Dictionary. 1993. vol 2)

Value Data Dictionary (DD) Reference

20 DD Name: HYDRO 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: HYDRO 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: HYDRO 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: HYDRO 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: HYDRO 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)

DD Name: HYDRO Code: TOPSHP_25 Date accepted: 2000-11-01

Name: triangle, point down

Definition: a figure having three angles and three sides with point down. (New Shorter Oxford English Dictionary. 1993. vol 2)

26 DD Name: HYDRO 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)

Value	Data Dictionary (DD) Reference						
27	DD Name: H	YDRO	Code: TOPSHP_27	Date accepted:	2000-11-01		
	Name: tv	vo upright cros	sses (one over the other)				
	Definition: tv	wo upright cro	sses, generally vertically di	sposed one abov	ve the other.		
28	DD Name: H	YDRO	Code: TOPSHP_28	Date accepted:	2000-11-01		
	Name: T	-shape					
	Definition: h	aving a shape	e like the capital letter T.				
29	DD Name: H	YDRO	Code: TOPSHP_29	Date accepted:	2000-11-01		
	Name: tri	Name: triangle pointing up over a circle					
	Definition: a	triangle, verte	ex uppermost, located above	e a circle.			
30	DD Name: H	YDRO	Code: TOPSHP_30	Date accepted:	2000-11-01		
	Name: upright cross over a circle						
	Definition: a	n upright cros	s located above a circle.				
31	DD Name: H	YDRO	Code: TOPSHP_31	Date accepted:	2000-11-01		
	Name: rh	nombus over a	a circle				
	Definition: a	rhombus loca	ated above a circle.				
32	DD Name: H	YDRO	Code: TOPSHP_32	Date accepted:	2000-11-01		
	Name: ci	ircle over a tria	angle pointing up				
	Definition: a	circle located	over a triangle, vertex upp	ermost.			
33	DD Name: H	YDRO	Code: TOPSHP_33	Date accepted:	2000-11-01		
	Name: of	ther shape (se	ee INFORM)				
	Definition:						

Attribute	Traffic flow
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Acronym: TRAFIC Code: 172

Use Type: F

Value Type: E

Data Dictionary (DD) Reference:

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

Definition:

Enumerations

Value Data Dictionary (DD) Reference

1 DD Name: HYDRO 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: HYDRO 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: HYDRO Code: TRAFIC_3 Date accepted: 2000-11-01

Name: one-way

Definition: traffic flow in one general direction only.

4 DD Name: HYDRO Code: TRAFIC_4 Date accepted: 2000-11-01

Name: two-way

Definition: traffic flow in two generally opposite directions.

Attribute

Acronym: TXTDSC Code: 158

Use Type: F

Value Type: T

Data Dictionary (DD) Reference:

DD Name: HYDRO 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	
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Acronym: VALDCO Code: 174

Use Type: F

Value Type: F

Data Dictionary (DD) Reference:

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

Definition: The depth of a sea bottom contour.

Attribute	Value of maximum range
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Acronym: VALMXR Code: 177

Use Type: F

Value Type: F

Data Dictionary (DD) Reference:

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

Definition: The extreme distance at which an object can be seen or a signal detected.

Attribute	Value of sounding	
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Acronym: VALSOU Code: 179

Use Type: F

Value Type: F

Data Dictionary (DD) Reference:

DD Name: HYDRO 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: HYDRO 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: HYDRO 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

Data Dictionary (DD) Reference:

DD Name: HYDRO 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 Vertical datum

Acronym: VERDAT Code: 185

Use Type: F

Value Type: E

Data Dictionary (DD) Reference:

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

Definition: Vertical datum

Enumerations

Value Data Dictionary (DD) Reference

4 DD Name: HYDRO Code: VERDAT_4 Date accepted: 2001-05-31

Name: Lowest low water

Definition: an arbitrary level conforming to the lowest tide observed at a place, or some what

lower.

Attribute	Water level effect

Acronym: WATLEV Code: 187

Use Type: F

Value Type: E

Data Dictionary (DD) Reference:

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

Definition:

Enumerations

Value Data Dictionary (DD) Reference

1 DD Name: HYDRO 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: HYDRO Code: WATLEV_2 Date accepted: 2000-11-01

Name: always dry

Definition: not covered at high water under average meteorological conditions.

3 DD Name: HYDRO 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: HYDRO 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: HYDRO Code: WATLEV_5 Date accepted: 2000-11-01

Name: awash

Value Data Dictionary (DD) Reference

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
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Acronym: addmrk Code: 17050

Use Type: F

Value Type: L

Data Dictionary (DD) Reference:

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

Definition: Shape and position of an additional board on a notice mark

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)	
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Acronym: Ic_ase Code: 18015

Use Type: F

Value Type: L

Data Dictionary (DD) Reference:

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

Definition: Excluding list of assemblies of ships for the applicability of a feature

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

7 DD Name: IENC Code: lc_ase_7 Date accepted: 2001-05-31

Value Data Dictionary (DD) Reference

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)
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Acronym: Ic_asi Code: 18014

Use Type: F

Value Type: L

Data Dictionary (DD) Reference:

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

Definition: Including list of assemblies of ships for the applicability of a feature

Enumerations

3

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

DD Name: IENC Code: lc_asi_3 Date accepted: 2001-05-31

Name: single vessel

other

Definition:

Name:

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

7 DD Name: IENC Code: lc_asi_7 Date accepted: 2001-05-31

Value Data Dictionary (DD) Reference

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 considered as rigid.

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
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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 val	ue 1
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Acronym: Ic_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	
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Acronym: Ic_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	
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Acronym: bunves Code: 17065

Use Type: F

Value Type: E

Data Dictionary (DD) Reference:

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

Definition: Indication of the availability of a bunker vessel

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	
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Acronym: catach Code: 17000

Use Type: F

Value Type: L

Data Dictionary (DD) Reference:

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

Definition: Category of anchorage

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

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

12 DD Name: IENC Code: catach_12 Date accepted: 2009-12-09

Name: anchorage for dry cargo vessels

Definition: an area where dry cargo vessels may anchor

13 DD Name: IENC Code: catach_13 Date accepted: 2009-12-09

Name: anchorage for rafts

Definition: an area where rafts may anchor

Attribute	category of berth
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Acronym: catbrt Code: 17066

Use Type: F

Value Type: L

Data Dictionary (DD) Reference:

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

Definition: Category of berth

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.

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
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Acronym: catbun Code: 17067

Use Type: F

Value Type: L

Data Dictionary (DD) Reference:

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

Definition: Category of bunker station

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
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Acronym: catcbl Code: 17101

Use Type: F

Value Type: E

Data Dictionary (DD) Reference:

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

Definition: Category of cable

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

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

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Value Data Dictionary (DD) Reference

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)
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Acronym: Ic_cce Code: 18017

Use Type: F

Value Type: L

Data Dictionary (DD) Reference:

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

Definition: Excluding list of categories of cargo for the applicability of a feature

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

Definition:

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Value Data Dictionary (DD) Reference

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)
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Acronym: Ic_cci Code: 18016

Use Type: F

Value Type: L

Data Dictionary (DD) Reference:

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

Definition: Including list of categories of cargo for the applicability of a feature

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

Definition:

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Value Data Dictionary (DD) Reference

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
	<u> </u>

Acronym: catccl Code: 17068

Use Type: F

Value Type: L

Data Dictionary (DD) Reference:

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

Definition: Category of CEMT class

Enumerations

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

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
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Acronym: catchp Code: 17010

Use Type: F

Value Type: L

Data Dictionary (DD) Reference:

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

Definition: Category of checkpoint

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: Category of communication

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.

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
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: Category of exceptional navigational structure

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)

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	
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Acronym: catfry Code: 17007

Use Type: F

Value Type: E

Data Dictionary (DD) Reference:

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

Definition: Category of ferry

Enumerations

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
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Code: 17070 Acronym: cathbr

F Use Type:

Value Type: L

Data Dictionary (DD) Reference:

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

Definition: Category of harbour

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.

DD Name: IENC 3 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.

5 DD Name: IENC Code: cathbr 5 Date accepted: 2001-05-31

> Name: private harbour

IENC Feature Catalogue Edition 2.2

Value Data Dictionary (DD) Reference

Definition: a harbour operated by a private body.

Attribute	Category of harbour facility
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Acronym: cathaf Code: 17008

Use Type: F

Value Type: L

Data Dictionary (DD) Reference:

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

Definition: Category of harbour facility

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.

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

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
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Acronym: cathlk Code: 17102

Use Type: F

Value Type: L

Data Dictionary (DD) Reference:

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

Definition: Category of hulk

Enumerations

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

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: Category of lateral mark

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

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.

Value	Data Dictionary (DD) Reference					
5	DD Name:	IENC	Code: catlam_5	Date accepted: 2001-05-31		
	Name:	right-hand side of the waterway				
	Definition:	indicates the ri	ght-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 le	eft-hand side of the inland w	vaterway		
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	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	ne waterway			
	Definition:	indicates a bifu	indicates a bifurcation of the inland waterway			
10	DD Name:	IENC	Code: catlam_10	Date accepted: 2001-05-31		
	Name:	bifurcation of the	ne 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 th	he right bank			
	Definition:	indicates that t	the channel is near the right	t bank		
12	DD Name:	IENC	Code: catlam_12	Date accepted: 2001-05-31		
	Name:	channel near th	he left bank			
	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 t	he channel crosses from th	e left to the right bank		

Value	Data Dictionary (DD) Reference		
14	DD Name: IENC	Code: catlam_14	Date accepted: 2001-05-31
	Name: channel	cross-over to the left bank	
	Definition: indicates	s 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 p	oint or obstacles at the right-ha	nd side
	Definition: indicates	s a danger point or obstacles at	the right-hand side
16	DD Name: IENC	Code: catlam_16	Date accepted: 2001-05-31
	Name: danger p	oint or obstacles at the left-han	d side
	Definition: indicates	s a danger point or obstacles at	the left-hand side
17	DD Name: IENC	Code: catlam_17	Date accepted: 2001-05-31
	Name: turn off a	t the right-hand side	
	Definition: indicates	s 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	s 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	s a junction at the right-hand sid	е
20	DD Name: IENC	Code: catlam_20	Date accepted: 2001-05-31
	Name: junction	at the left-hand side	
	Definition: indicates	s a junction at the left-hand side	
21	DD Name: IENC	Code: catlam_21	Date accepted: 2001-05-31
	Name: harbour entry at the right-hand side		
	Definition: indicates	s a harbour entry at the right-ha	nd 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 shoreline construction
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Acronym: catslc Code: 17012

Use Type: F

Value Type: E

Data Dictionary (DD) Reference:

DD Name: IENC Date accepted: 2007-10-12

Definition: Category of shoreline construction

Enumerations

Value Data Dictionary (DD) Reference

7 DD Name: IENC Code: catslc_7 Date accepted: 2007-10-12

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).

18 DD Name: IENC Code: catslc_18 Date accepted: 2007-10-12

Name: lock/guide wall

Definition: permanent structure bounding a lock and including guide walls (Denise Ladue,

USACE)

19 DD Name: IENC Code: catslc_19 Date accepted: 2009-09-11

Name: ice breaker

Definition: an often wedge-like structure used for protecting a bridge pier, dock, facility, etc.

from floating ice or other debris.

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: Category of notice mark

Enumerations

Value Data Dictionary (DD) Reference

1 DD Name: IENC Code: catnmk_1 Date accepted: 2001-05-31

Name: (A.1) no entry

Definition: Prohibition mark A.1: no entry

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: Prohibition mark A.1a: closed area, but small craft boats without engine permitted

3 DD Name: IENC Code: catnmk_3 Date accepted: 2001-05-31

Name: (A.2) no overtaking

Definition: Prohibition mark A.2: no overtaking

4 DD Name: IENC Code: catnmk_4 Date accepted: 2001-05-31

Name: (A.3) no overtaking of convoys by convoys

Definition: Prohibition mark A.3: no overtaking of convoys by convoys

5 DD Name: IENC Code: catnmk_5 Date accepted: 2001-05-31

Name: (A.4) no passing or overtaking

Definition: Prohibition mark A.4: no passing or overtaking

Value	Data Dictionary (DD) Reference			
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: Prohibition	Definition: Prohibition mark A.5: no berthing		
7	DD Name: IENC	Code: catnmk_7	Date accepted: 2001-05-31	
	Name: (A.5.1) no l	(A.5.1) no berthing within the breadth indicated in meters(measured from the sign)		
	Definition: Prohibition meters(measured from	mark A.5.1: no berthing with the sign)	hin the breadth indicated in	
8	DD Name: IENC	Code: catnmk_8	Date accepted: 2001-05-31	
	Name: (A.6) no an	choring or trailing of anchor	s, cables or chains	
	Definition: Prohibition	mark A.6: no anchoring or t	railing of anchors, cables or chains	
9	DD Name: IENC	Code: catnmk_9	Date accepted: 2001-05-31	
	Name: (A.7) no ma	aking fast to the bank		
	Definition: Prohibition	mark A.7: no making fast to	the bank	
10	DD Name: IENC	Code: catnmk_10	Date accepted: 2001-05-31	
	Name: (A.8) no turning			
	Definition: Prohibition mark A.8: no turning			
11	DD Name: IENC	Code: catnmk_11	Date accepted: 2001-05-31	
	Name: (A.9) Do no	ot create wash		
	Definition: Prohibition mark A.9: do not create wash			
12	DD Name: IENC	Code: catnmk_12	Date accepted: 2001-05-31	
Name: (A.10) no passing on left side (assing on left side (in openi	ngs of bridges or weirs)	
	Definition: Prohibition mark A.10: no passing on left side (in openings of bridges or weirs)			
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)		nings of bridges or weirs)	
	Definition: Prohibition mark A.10: no passing on right side (in openings of bridges or weirs)			
14	DD Name: IENC	Code: catnmk_14	Date accepted: 2001-05-31	
	Name: (A.12) moto	orized craft prohibited		

Name:

Value Data Dictionary (DD) Reference Definition: Prohibition mark A.12: motorized craft prohibited 15 DD Name: IENC Code: catnmk 15 Date accepted: 2001-05-31 Name: (A.13) all sports and pleasure craft prohibited Definition: Prohibition mark A.13: all sports and pleasure craft prohibited 16 DD Name: IENC Code: catnmk 16 Date accepted: 2001-05-31 Name: (A.14) water skiing prohibited Definition: Prohibition mark A.14: water skiing prohibited 17 DD Name: IENC Code: catnmk 17 Date accepted: 2001-05-31 Name: (A.15) sailing vessels prohibited Definition: Prohibition mark A.15: sailing vessels prohibited 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: Prohibition mark A.16: all craft other than motorized vessels or sailing craft prohibited 19 DD Name: IENC Code: catnmk_19 Date accepted: 2001-05-31 Name: (A.17) use of sailboards prohibited Definition: Prohibition mark A.17: use of sailboards prohibited 20 DD Name: IENC Code: catnmk 20 Date accepted: 2001-05-31 Name: (A.20) water bikes prohibited Definition: Prohibition mark A.20: water bikes prohibited 21 DD Name: IENC Code: catnmk_21 Date accepted: 2001-05-31 (A.18) end of zone authorized for high speed navigation of small sport and Name: pleasure craft prohibited Definition: Prohibition mark A.18: end of zone authorized for high speed navigation of small sport and pleasure craft prohibited 22 DD Name: IENC Code: catnmk 22 Date accepted: 2001-05-31

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(A.19) no launching or beaching of vessels

Definition: Prohibition mark A.19: no launching or beaching of vessels

Value	Data Dictionary (DD) Reference			
23	DD Name:	IENC	Code: catnmk_23	Date accepted: 2001-05-31
	Name:	(B.1) proceed	in left direction	
	Definition:	Regulation ma	ark B.1: proceed in left direc	tion
24	DD Name:	IENC	Code: catnmk_24	Date accepted: 2001-05-31
	Name:	(B.1) proceed	in right direction	
	Definition:	Regulation ma	ark B.1: proceed in right dire	ection
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:	Regulation ma	ark B.2a: move to the side o	f the channel on your port side
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:	Regulation ma	ark B.2b: move to the side o	f the channel on your starboard side
27	DD Name:	IENC	Code: catnmk_27	Date accepted: 2001-05-31
	Name:	(B.3a) keep or	the side of the channel on	your portside
	Definition:	Regulation ma	ark B.3a: keep on the side o	f the channel on your portside
28	DD Name:	IENC	Code: catnmk_28	Date accepted: 2001-05-31
	Name:	(B.3b) keep or	the side of the channel on	your starboard side
	Definition:	Regulation ma	ark B.3b: keep on the side o	f the channel on your starboard side
29	DD Name:	IENC	Code: catnmk_29	Date accepted: 2001-05-31
	Name:	(B.4a) cross ch	nannel to port	
	Definition:	Regulation ma	ark B.4a: cross channel to p	ort
30	DD Name:	IENC	Code: catnmk_30	Date accepted: 2001-05-31
	Name:	(B.4b) cross ch	nannel to starboard	
	Definition:	Regulation ma	ark B.4b: cross channel to s	tarboard
31	DD Name:	IENC	Code: catnmk_31	Date accepted: 2001-05-31
	Name:	(B.5) stop as p	rescribed in the regulations	

Value	Data Dictionary (DD) Re	eference	
	Definition: Regulation	mark B.5: stop as prescribe	d in the regulations
32	DD Name: IENC	Code: catnmk_32	Date accepted: 2001-05-31
	Name: (B.6) do not	exceed the speed indicated	d (in km/h)
	Definition: Regulation	mark B.6: do not exceed the	e speed indicated (in km/h)
33	DD Name: IENC	Code: catnmk_33	Date accepted: 2001-05-31
	Name: (B.7) give a	sound signal	
	Definition: Regulation	mark B.7: give a sound sigr	nal
34	DD Name: IENC	Code: catnmk_34	Date accepted: 2001-05-31
	Name: (B.8) keep a	particulary sharp lookout	
	Definition: Regulation	mark B.8: keep a particulary	y sharp lookout
35	DD Name: IENC	Code: catnmk_35	Date accepted: 2001-05-31
	· · ·	t enter the main waterway ge their course or speed	until certain that this will not oblige vessels
		mark B.9a: do not enter the eding on it to change their	main waterway until certain that this will course or speed
36	DD Name: IENC	Code: catnmk_36	Date accepted: 2001-05-31
	, ,	t cross the main waterway ge their course or speed	until certain that this will not oblige vessels
	•	mark B.9b: do not cross the eding on it to change their	main waterway until certain that this will course or speed
37	DD Name: IENC	Code: catnmk_37	Date accepted: 2001-05-31
	Name: (B.11) obligation the board	ation to enter into a radiotel	ephone link on the channel as indicated on
	Definition: Regulation is channel as indicated on	ŭ	er into a radiotelephone link on the
38	DD Name: IENC	Code: catnmk_38	Date accepted: 2001-05-31
	Name: (C.1) depth	of water limited	
	Definition: Restriction r	mark C.1: depth of water lin	nited
	DD N JENO	0 1 1 00	D

Code: catnmk_39 Date accepted: 2001-05-31

DD Name: IENC

39

> Name: (C.2) headroom limited

Definition: Restriction mark C.2: headroom limited

40 DD Name: IENC Code: catnmk 40 Date accepted: 2001-05-31

> Name: (C.3) width of passage or channel limited

Definition: Restriction mark C.3: width of passage or channel limited

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: Restriction mark C.4: there are restrictions on navigation: make inquiries (with additional sign at bottom of main sign)

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: Restriction mark C.5: the channel lies at a distance from the left bank

43 DD Name: IENC Date accepted: 2001-05-31 Code: catnmk 43

> (C.5) the channel lies at a distance from the right bank Name:

Definition: Restriction mark C.5: the channel lies at a distance from the right bank

44 DD Name: IENC Code: catnmk 44 Date accepted: 2001-05-31

> Name: (D.1a) recommended channel in both directions

Definition: Recommendation mark D.1a: recommended channel in both directions

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: Recommendation mark D.1b: recommended channel only in the direction indicated, passage in the opposite direction prohibited (at bridges)

46 DD Name: IENC Date accepted: 2001-05-31 Code: catnmk_46

> Name: (D.2) you are recommended to keep on right side (in openings of bridges and weirs)

Definition: Recommendation mark D.2: you are recommended to keep on right side (in openings of bridges and weirs)

Value	Data Dictionary (DD) Reference	
47	DD Name: IENC	Code: catnmk_47	Date accepted: 2001-05-31
	Name: (D.2) weirs)	you are recommended to keep on	left side (in openings of bridges and
	Definition: Reco	•	commended to keep on left side (in
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: Reco	mmendation mark D.3: you are red	commended to proceed in the left direction
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: Reco	mmendation mark D.3: you are red	commended to proceed in the right
50	DD Name: IENC	Code: catnmk_50	Date accepted: 2001-05-31
	Name: (E.1)	entry permitted (general sign)	
	Definition: Inform	mation mark E.1: entry permitted (g	general sign)
51	DD Name: IENC	Code: catnmk_51	Date accepted: 2001-05-31
	Name: (E.2)	overhead cable crossing	
	Definition: Inform	mation mark E.2: overhead cable c	rossing
52	DD Name: IENC	Code: catnmk_52	Date accepted: 2001-05-31
	Name: (E.3)	weir	
	Definition: Inform	mation mark E.3: weir	
53	DD Name: IENC	Code: catnmk_53	Date accepted: 2001-05-31
	Name: (E.4a) ferry-boat not moving independer	ntly
	Definition: Inform	mation mark E.4a: ferry-boat not m	oving independently
54	DD Name: IENC	Code: catnmk_54	Date accepted: 2001-05-31
	Name: (E.4b) ferry-boat moving independently	
	Definition: Inform	mation mark E.4b: ferry-boat movin	g independently
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: Information mark E.5: berthing (i.e. no anchoring or making fast to the bank)

permitted

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: Information mark E.5.1: berthing permitted on the stretch of water of the breadth

measured from, and shown on the board in meters

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: Information mark E.5.2: berthing permitted on the stretch of water bounded by the

distances measured from, and shown on the board in meters

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: Information mark E.5.3: maximum number of vessels permitted to berth abreast

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: Information mark E.5.4: berthing area reserved for pushing-navigation vessels

that are not required to carry blue lights or blue cones

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: Information mark E.5.5: berthing area reserved for pushing-navigation vessels

that are required to carry one blue light or one blue cone

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

Definition: Information mark E.5.6: berthing area reserved for pushing-navigation vessels

that are required to carry two blue lights or two blue cones

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DD Name: IENC

Value	Data Dictionary (DD) Re	eference	
62	DD Name: IENC	Code: catnmk_62	Date accepted: 2001-05-31
	Name: (E.5.7) berth carry three blue lights or	•	ng-navigation vessels that are required to
		mark E.5.7: berthing area re y three blue lights or three b	eserved for pushing-navigation vessels blue cones
63	DD Name: IENC	Code: catnmk_63	Date accepted: 2001-05-31
	` ,	ing area reserved for vesse carry blue lights or blue con	els other than pushing-navigation vessels es
		mark E.5.8: berthing area re are not required to carry blu	eserved for vessels other than pushing- e lights or blue cones
64	DD Name: IENC	Code: catnmk_64	Date accepted: 2001-05-31
	` ,	ing area reserved for vessed to carry one blue light or c	els other than for pushing-navigation one blue cone
		mark E.5.9: berthing area re are required to carry one blu	eserved for vessels other than pushing- ue light or one blue cone
65	DD Name: IENC	Code: catnmk_65	Date accepted: 2001-05-31
	, ,	thing area reserved for vess d to carry two blue lights or	sels other than for pushing-navigation two blue cones
		mark E.5.10: berthing area are required to carry two blu	reserved for vessels other than pushing- ue lights or two blue cones
66	DD Name: IENC	Code: catnmk_66	Date accepted: 2001-05-31
	` ,	thing area reserved for vess d to carry three blue lights o	sels other than for pushing-navigation or three blue cones
		· ·	reserved for vessels other than pushing- lue lights or three blue cones
67	DD Name: IENC	Code: catnmk_67	Date accepted: 2001-05-31
	Name: (E.5.12) beri	thing area reserved for all v	essels that are not required to carry blue
	Definition: Information required to carry blue lig	-	reserved for all vessels that are not
		0 1 1 1	D

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Date accepted: 2001-05-31

Code: catnmk_68

Name: (E.5.13) berthing area reserved for all vessels that are required to carry one blue light or one blue cone

Definition: Information mark E.5.13: berthing area reserved for all vessels that are required to carry one blue light or one blue cone

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: Information mark E.5.14: berthing area reserved for all vessels that are required to carry two blue lights or two blue cones

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: Information mark E.5.15: berthing area reserved for all vessels that are required to carry three blue lights or three blue cones

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: Information mark E.6: anchoring or trailing of anchors, cables or chains permitted

72 DD Name: IENC Code: catnmk_72 Date accepted: 2001-05-31

Name: (E.7) making fast to the bank permitted

Definition: Information mark E.7: making fast to the bank permitted

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: Information mark E.7.1: berthing area reserved for loading and unloading of

vehicles

74 DD Name: IENC Code: catnmk_74 Date accepted: 2001-05-31

Name: (E.8) turning area

Definition: Information mark E.8: turning area

75 DD Name: IENC Code: catnmk_75 Date accepted: 2001-05-31

Name: (E.9a) crossing with secondary waterway ahead

Value	Data Diction	onary (DD) Refe	erence	
	Definition:	Information ma	ark E.9a: crossing with sec	ondary waterway ahead
76	DD Name:	IENC	Code: catnmk_76	Date accepted: 2001-05-31
	Name:	(E.9b) second	ary waterway ahead on the	right
	Definition:	Information ma	ark E.9b: secondary waterv	vay ahead on the right
77	DD Name:	IENC	Code: catnmk_77	Date accepted: 2001-05-31
	Name:	(E.9c) seconda	ary waterway ahead on the	left
	Definition:	Information ma	ark E.9c: secondary waterv	vay ahead on the left
78	DD Name:	IENC	Code: catnmk_78	Date accepted: 2001-05-31
	Name:	(E.9d) second	ary waterway ahead, main	waterway on the right
	Definition:	Information m	ark E.9d: secondary waterv	way ahead, main waterway on the right
79	DD Name:	IENC	Code: catnmk_79	Date accepted: 2001-05-31
	Name:	(E.9e) second	ary waterway ahead, main	waterwar on the left
	Definition:	Information ma	ark E.9e: secondary waterv	way ahead, main waterway on the left
80	DD Name:	IENC	Code: catnmk_80	Date accepted: 2001-05-31
	Name:	(E.9f) seconda	ary waterway on the left, ma	ain waterway on the right
	Definition: right	Information ma	ark E.9f: secondary waterw	ay on the left, main waterway on the
81	DD Name:	IENC	Code: catnmk_81	Date accepted: 2001-05-31
	Name:	(E.9g) second	ary waterway on the right, r	main waterway on the left
	Definition: left	Information ma	ark E.9g: secondary waterv	vay on the right, main waterway on the
82	DD Name:	IENC	Code: catnmk_82	Date accepted: 2001-05-31
	Name:	(E.9h) second	ary waterway ahead and or	n the left, main waterway on the right
		Information man	ark E.9h: secondary waterv	vay ahead and on the left, main
83	DD Name:	IENC	Code: catnmk_83	Date accepted: 2001-05-31
	Name:	(E.9i) seconda	ary waterway ahead and on	the right, main waterway on the left

Value	Data Dictionary (DD) Re	eference	
	Definition: Information waterway on the left	mark E.9i: secondary water	rway ahead and on the right, main
84	DD Name: IENC	Code: catnmk_84	Date accepted: 2001-05-31
	Name: (E.10a) cros	ssing with main waterway al	nead
	Definition: Information	mark E.10a: crossing with r	main waterway ahead
85	DD Name: IENC	Code: catnmk_85	Date accepted: 2001-05-31
	Name: (E.10b) mai	n waterway ahead	
	Definition: Information	mark E.10b: main waterwa	y ahead
86	DD Name: IENC	Code: catnmk_86	Date accepted: 2001-05-31
	Name: (E.10c) junc	tion with main waterway ah	ead and right
	Definition: Information	mark E.10c: junction with m	nain waterway ahead and right
87	DD Name: IENC	Code: catnmk_87	Date accepted: 2001-05-31
	Name: (E.10d) junc	ction with main waterway ah	ead and left
	Definition: Information	mark E.10d: junction with n	nain waterway ahead and left
88	DD Name: IENC	Code: catnmk_88	Date accepted: 2001-05-31
	Name: (E.10e) junc left	ction with main waterway ah	ead and right, secondary waterway on the
	Definition: Information waterway on the left	mark E.10e: junction with n	nain waterway ahead and right, secondary
89	DD Name: IENC	Code: catnmk_89	Date accepted: 2001-05-31
	Name: (E.10f) junct	tion with main waterway ahe	ead and left, secondary waterway on the
	Definition: Information waterway on the right	mark E.10f: junction with m	ain waterway ahead and left, secondary
90	DD Name: IENC	Code: catnmk_90	Date accepted: 2001-05-31
	Name: (E.11) end of end of a restriction	of prohibition or obligation a	pplying to traffic in one direction only, or
	Definition: Information	mark E.11: end of prohibition	on or obligation applying to traffic in one

direction only, or end of a restriction

Value	Data Diction	onary (DD) Refe	rence		
91	DD Name:	IENC	Code: catnmk_91	Date accepted:	2001-05-31
	Name:	(E.13) drinking	water supply		
	Definition:	Information ma	ark E.13: drinking water		
92	DD Name:	IENC	Code: catnmk_92	Date accepted:	2001-05-31
	Name:	(E.14) telephor	ne		
	Definition:	Information ma	ark E.14: telephone		
93	DD Name:	IENC	Code: catnmk_93	Date accepted:	2001-05-31
	Name:	(E.15) motorize	ed vessels permitted		
	Definition:	Information ma	ark E.15: motorized vessels	permitted	
94	DD Name:	IENC	Code: catnmk_94	Date accepted:	2001-05-31
	Name:	(E.16) sport ar	nd pleasure craft permitted		
	Definition:	Information ma	ark E.16: sport and pleasure	e craft permitted	
95	DD Name:	IENC	Code: catnmk_95	Date accepted:	2001-05-31
	Name:	(E.17) water sl	kiing permitted		
	Definition:	Information ma	ark E.17: water skiing permi	itted	
96	DD Name:	IENC	Code: catnmk_96	Date accepted:	2001-05-31
	Name:	(E.18) sailing v	essels permitted		
	Definition:	Information ma	ark E.18: sailing vessels pe	rmitted	
97	DD Name:	IENC	Code: catnmk_97	Date accepted:	2001-05-31
	Name:	(E.19) craft oth	ner than motorized vessels	or sailing craft pe	ermitted
	Definition: permitted	Information ma	ark E.19: craft other than m	otorized vessels	or sailing craft
98	DD Name:	IENC	Code: catnmk_98	Date accepted:	2001-05-31
	Name:	(E.20) use of s	ailboards permitted		
	Definition:	Information ma	ark E.20: use of sailboards	permitted	
99	DD Name:	IENC	Code: catnmk_99	Date accepted:	2001-05-31

Name:

Value	Data Dictionary (DD) Reference		
	Name: (E.23) possil channel indicated	oility of obtaining nautical in	formation by radiotelephone on the
	Definition: Information radiotelephone on the ch	•	aining nautical information by
100	DD Name: IENC	Code: catnmk_100	Date accepted: 2001-05-31
	Name: (E.24) water	bikes permitted	
	Definition: Information	mark E.24: water bikes perr	mitted
101	DD Name: IENC	Code: catnmk_101	Date accepted: 2001-05-31
	Name: (E.21) zone	authorized for high speed n	avigation of small sport and pleasure
	Definition: Information and pleasure	mark E.21: zone authorized	for high speed navigation of small sport
102	DD Name: IENC	Code: catnmk_102	Date accepted: 2001-05-31
	Name: (E.22) launc	ning or beaching of vessels	permitted
	Definition: Information	mark E.22: launching and b	eaching of vessels permitted
103	DD Name: IENC	Code: catnmk_103	Date accepted: 2009-09-11
	Name: (BR) proceed	d close to the margin on you	ur portside
	Definition: regulation m	ark (BR): proceed close to	the margin on your portside
104	DD Name: IENC	Code: catnmk_104	Date accepted: 2009-09-11
	Name: (BR) proceed	d close to the margin on you	ur starboard side
	Definition: regulation m	ark (BR): proceed close to	the margin on your starboard side
105	DD Name: IENC	Code: catnmk_105	Date accepted: 2009-09-11
	Name: (BR) proceed	d in the middle of the river	
	Definition: regulation m	ark (BR): proceed in the mi	ddle of the river
106	DD Name: IENC	Code: catnmk_106	Date accepted: 2009-09-11
	Name: (BR) cross ri	ver to port	
	Definition: regulation m	ark (BR): cross river to port	
107	DD Name: IENC	Code: catnmk_107	Date accepted: 2009-09-11

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(BR) cross river to starboard

Definition: regulation mark (BR): cross river to starboard

108 DD Name: IENC Code: catnmk_108 Date accepted: 2009-09-11

Name: (BR) traffic between margins

Definition: information mark (BR): traffic between margins

109 DD Name: IENC Code: catnmk 109 Date accepted: 2009-09-11

Name: (BR) reduce speed

Definition: regulation mark (BR): reduce speed

110 DD Name: IENC Code: catnmk 110 Date accepted: 2009-09-11

Name: wreck pontoon, passage allowed on side showing red-white sign

Definition: a red-white sign shown on a wreck pontoon to indicate the side on which passage is permitted (without wash of waves) and a red sign on the side on which passage is not

permitted

111 DD Name: IENC Code: catnmk_111 Date accepted: 2009-09-11

Name: passage allowed on both sides

Definition: red-white signs shown on a wreck pontoon to indicate that passage is permitted

on both sides (without wash of waves)

112 DD Name: IENC Code: catnmk_112 Date accepted: 2009-12-09

Name: no passing or overtaking of convoys

Definition: Russian notice mark: 1.2, no passing or overtaking of convoys

DD Name: IENC Code: catnmk 113 Date accepted: 2009-12-09

Name: small crafts prohibited

Definition: Russian notice mark: 1.5, small crafts prohibited

114 DD Name: IENC Code: catnmk_114 Date accepted: 2009-12-09

Name: Attention! (Keep caution)

Definition: Russian notice mark: 2.1, Attention! (keep caution)

DD Name: IENC Code: catnmk_115 Date accepted: 2009-12-09

Name: fairway crossing

Definition: Russian notice mark: 2.2, fairway crossing

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Value Data Dictionary (DD) Reference

116 DD Name: IENC Code: catnmk_116 Date accepted: 2009-12-09

Name: shipping inspection point

Definition: Russian notice mark: 3.3, shipping inspection point

Attribute	category of refuse dump
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Acronym: catrfd Code: 17071

Use Type: F

Value Type: L

Data Dictionary (DD) Reference:

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

Definition: Category of refuse dump

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: Ic_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: Ic 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

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

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

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

Name:

Dinghy

Value	Data Dictionary (DD) Reference		
	Definition: a day trip passengers	or cabin vessel constructed a	and equipped to carry more than 12
23	DD Name: IENC	Code: lc_cse_23	Date accepted: 2001-05-31
	Name: passenger	sailing vessel	
	Definition: a passeng	er vessel fitted out mainly wit	th a view to propulsion under sail
24	DD Name: IENC	Code: lc_cse_24	Date accepted: 2001-05-31
	Name: day trip ve	ssel	
	Definition: a passeng	er vessel without overnight p	assenger cabins
25	DD Name: IENC	Code: lc_cse_25	Date accepted: 2001-05-31
	Name: cabin vess	el	
	Definition: a passeng	er vessel with overnight pass	senger cabins
26	DD Name: IENC	Code: lc_cse_26	Date accepted: 2001-05-31
	Name: High-spee	d vessel	
	Definition: a motorise	ed 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 eq	uipment	
	Definition: a floating pile drivers or elevator		gear such as cranes, dredging equipment,
28	DD Name: IENC	Code: lc_cse_28	Date accepted: 2001-05-31
	Name: worksite c	raft	
		appropriately built and equipp pper or pontoon barge, ponto	ed for use at worksites, such as a con or stone-dumping vessel
29	DD Name: IENC	Code: lc_cse_29	Date accepted: 2001-05-31
	Name: recreation	al craft	
	Definition: a vessel of	ther than a passenger vessel	l, intended for sport or pleasure
30	DD Name: IENC	Code: lc_cse_30	Date accepted: 2001-05-31
	N 5' '		

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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)
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Acronym: Ic_csi Code: 18012

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_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: non-motorized vessel

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

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: Ic_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: Ic 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

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

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

Value	Data Dictionary (DD) R	eference		
	Definition: a day trip o passengers	r cabin vessel constructed a	and equipped to carry more than 12	
23	DD Name: IENC	Code: lc_csi_23	Date accepted: 2001-05-31	
	Name: passenger	sailing vessel		
	Definition: a passenge	er vessel fitted out mainly wi	ith a view to propulsion under sail	
24	DD Name: IENC	Code: lc_csi_24	Date accepted: 2001-05-31	
	Name: day trip ves	sel		
	Definition: a passenge	er vessel without overnight p	passenger cabins	
25	DD Name: IENC	Code: lc_csi_25	Date accepted: 2001-05-31	
	Name: cabin vesse	el .		
	Definition: a passenge	er vessel with overnight pas	senger cabins	
26	DD Name: IENC	Code: lc_csi_26	Date accepted: 2001-05-31	
	Name: High-speed	vessel		
	Definition: a motorised	d vessel capable of reaching	g speeds over 40km/h with respect to water	
27	DD Name: IENC	Code: lc_csi_27	Date accepted: 2001-05-31	
	Name: floating equ	ipment		
	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 cra	aft		
	·		ped for use at worksites, such as a poon or stone-dumping vessel	
29	DD Name: IENC	Code: lc_csi_29	Date accepted: 2001-05-31	
	Name: recreational	craft		
	Definition: a vessel oth	ner than a passenger vesse	el, 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
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Acronym: catsit Code: 17002

Use Type: F

Value Type: L

Data Dictionary (DD) Reference:

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

Definition: Category of signal station, traffic

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
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Acronym: catsiw Code: 17003

Use Type: F

Value Type: L

Data Dictionary (DD) Reference:

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

Definition: Category of signal station, warning

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
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Acronym: cattab Code: 17092

Use Type: F

Value Type: E

Data Dictionary (DD) Reference:

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

Definition: Category of time and behaviour

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
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Acronym: catvtr Code: 17091

Use Type: F

Value Type: L

Data Dictionary (DD) Reference:

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

Definition: Category of vehicle transfer

Enumerations

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

Definition: The transfer of a vehicle requires permission.

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Value Data Dictionary (DD) Reference

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
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Acronym: catgag Code: 17078

Use Type: F

Value Type: L

Data Dictionary (DD) Reference:

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

Definition: Category of waterway gauge

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)

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 information of the water level via a large external indicator. (adopted from DIN 4049 – Section 3, Oct. 1994)

Attribute class of dangerous cargo	
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Acronym: clsdng Code: 17055

Use Type: F

Value Type: E

Data Dictionary (DD) Reference:

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

Definition: Class of dangerous cargo

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:

5 DD Name: IENC Code: clsdng_5 Date accepted: 2009-12-09

Name: one red light / red cone top down

Definition: Russian inland waterway regulations: vessels with one red light / red cone top

down

Attribute	Current velocity at high water level
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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	
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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
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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	
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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
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Acronym: Ig_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: Direction of impact

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	
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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
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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
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Acronym: disipu Code: 17059

Use Type: F

Value Type: F

Data Dictionary (DD) Reference:

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

Acronym: **Ic_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
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Acronym: Ic_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)	
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Acronym: **eleva1** Code: 17061

Use Type: F

Value Type: F

Data Dictionary (DD) Reference:

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

Definition: The maximum elevation of the bottom of a river within a depth contour and referred to

a gravitational reference level.

Attribute Elevation 2 of surface (m)	
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Acronym: eleva2 Code: 17062

Use Type: F

Value Type: F

Data Dictionary (DD) Reference:

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

Definition: The minimum elevation of the bottom of a river within a depth contour and referred to a

gravitational reference level.

Attribute	Function of notice mark
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Acronym: fnctnm Code: 17063

Use Type: F

Value Type: E

Data Dictionary (DD) Reference:

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

Definition: Function of a notice mark

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
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Acronym: hunits Code: 17103

Use Type: F

Value Type: E

Data Dictionary (DD) Reference:

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

Definition: Units of measure of waterway distances

Enumerations

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

6 DD Name: IENC Code: hunits_6 Date accepted: 2001-05-31

Value Data Dictionary (DD) Reference

Name: nautical miles

Definition: heights/lengths are specified in nautical (sea) miles

Attribute I	Horizontal clearance length
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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
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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
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Acronym: **Ic_Ig1** 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: Ic_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
Attribute	ividing havigational bystem of

Acronym: marsys Code: 17009

Use Type: F

Value Type: E

Data Dictionary (DD) Reference:

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

Definition: System of navigational marks

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

Name: CEVNI

Value Data Dictionary (DD) Reference

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.

13 DD Name: IENC Code: marsys_13 Date accepted: 2009-09-11

Name: Brazilian national inland waterway regulations - two sides

Definition: navigational aids conform to the Brazilian national inland waterway regulations for

two sides.

14 DD Name: IENC Code: marsys_14 Date accepted: 2009-09-11

Name: Brazilian national inland waterway regulations - side independent

Definition: navigational aids conform to the side independent Brazilian national inland

waterway regulations.

15 DD Name: IENC Code: marsys_15 Date accepted: 2009-09-11

Name: Paraguay-Parana waterway - Brazilian complementary aids

Definition: Brazilian complementary navigational aids on the Paraguay-Parana waterway.

Attribute Maximal permitted beam

Acronym: **Ig_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

Data Dictionary (DD) Reference:

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	
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Acronym: Ig_lgs Code: 18004

Use Type: F

Value Type: F

Data Dictionary (DD) Reference:

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	
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Acronym: Ig_rel Code: 18008

Use Type: F

Value Type: L

Data Dictionary (DD) Reference:

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

Definition: Indication of the related legal issue

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
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Acronym: **Ig_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
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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	
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Acronym: hignam Code: 17081

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 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	Attribute	Name of relevant mean water level
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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
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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
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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	
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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: Gravitational reference level

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

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: Restriction

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)

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

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.

37 DD Name: IENC Code: restrn_37 Date accepted: 2001-05-31

Name: restricted fairway width

Definition: an area within which the fairway width is restricted.

Attribute	Type of Ship
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Acronym: shptyp Code: 33066

Use Type: F

Value Type: E

Data Dictionary (DD) Reference:

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

Definition: Type of ship

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.

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.

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 reference	
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Acronym: lg_spr Code: 18002

Use Type: F

Value Type: L

Data Dictionary (DD) Reference:

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

Definition: Indicates the type of speed measurement

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
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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: List of goods, which can be transshipped

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

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
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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
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Acronym: useshp Code: 17094

Use Type: F

Value Type: E

Data Dictionary (DD) Reference:

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

Definition: Indication of the way the ship is used

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
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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

Data Dictionary (DD) Reference:

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
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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
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Acronym: meawat Code: 17084

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 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

Data Dictionary (DD) Reference:

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

Definition: Vertical datum

Enumerations

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)

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

> Russian normal backwater level Name:

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

Definition:

Attribute	Water displacement range value 1
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Acronym: Ic_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
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Acronym: Ic_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
7	Trailer and place ment and

Acronym: Ig_wdu Code: 18007

Use Type: F

Value Type: E

Data Dictionary (DD) Reference:

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

Definition: Units of measure for water displacement

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
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Acronym: watlev Code: 17104

Use Type: F

Value Type: E

Data Dictionary (DD) Reference:

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

Definition: Effect of water level

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.

4 DD Name: IENC Code: watlev_4 Date accepted: 2001-05-31

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)

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

Definition: below a water level called "mean water" which is the arithmetic mean value of all

water levels within a certain period of time

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

Attribute	bank of the waterway
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Acronym: **bnkwtw** Code: 17105

Use Type: F

Value Type: E

Data Dictionary (DD) Reference:

DD Name: IENC Date accepted: 2009-09-11

Definition: bank of the river (waterway)

Enumerations

Value Data Dictionary (DD) Reference

1 DD Name: IENC Code: bnkwtw_1 Date accepted: 2009-09-11

Name: left

Definition: left bank of the river

2 DD Name: IENC Code: bnkwtw_2 Date accepted: 2009-09-11

Name: right

Definition: right bank of the river