IENC Feature Catalogue

Edition 2.6.0

2024-10-15

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://registry.iho.int
IENC Data Dictionary	IENC	IEHG	http://registry.iho.int

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 Mandatory

C Conditional mandatory

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

Feature	Accuracy of data		
Acronym:	M_ACCY	Code:	300
Type:	M		
Primitive:	A		

Data Dictionary (DD) Reference:

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

Definition: An area within which the best estimate of the overall accuracy of the data is uniform. The overall accuracy

takes into account for example the source accuracy, chart scale, digitising accuracy, etc.

Attribute Bindings:

acronym	usage	constraints
POSACC	0	unit = "m" decimal digits = "2"
SORDAT	С	format = "ccyymmdd"
SORIND	С	format = "cc,cc,ccccc,c"
CATTEV	М	value list = "4,5,6"
INFORM	0	
NINFOM	0	
SOUACC	0	unit = "m" decimal digits = "2"
TXTDSC	0	
NTXTDS	0	
VERACC	0	unit = "m" decimal digits = "2"
HORACC	Ο	unit = "m" decimal digits = "2"

Feature	Administration Area (Named)		
Acronym:	ADMARE	Code:	1
Type:	G		
Primitive:	Α		

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
JRSDTN	М	value list = "1,2,3"
NATION	М	format = "cc"
CONDTN	С	value list = "3"
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"
NTXTDS	0	

Feature	Aggregation		
Acronym:	C_AGGR	Code:	400
Туре:	0		
Primitive:	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	
unlocd	С	
OBJNAM	М	
INFORM	0	
NINFOM	0	
NTXTDS	0	
PICREP	0	
SCAMIN	0	min = "1"
TXTDSC	0	
SORDAT	С	format = "ccyymmdd"
SORIND	С	format = "cc,cc,ccccc,c"
locmrn	С	

Feature	Airport/airfield		
Acronym:	AIRARE	Code:	2
Type:	G		
Primitive:	P,A		

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.

Attribute Bindings:

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"
CONDTN	С	value list = "1,2,3,5"
OBJNAM	0	
NOBJNM	0	
INFORM	0	
NINFOM	0	
SCAMIN	M	min = "1"
PICREP	0	
TXTDSC	0	
SORDAT	С	format = "ccyymmdd"
SORIND	С	format = "cc,cc,cccc,c"
NTXTDS	0	
STATUS	0	value list = "5"

Feature	Association		
Acronym:	C_ASSO	Code:	401
Туре:	0		
Primitive:	N		

Data Dictionary (DD) Reference:

usage

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

constraints

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

Attribute Bindings:

acronym

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,cccc,c"

Feature	Beacon, cardinal		
Acronym:	BCNCAR	Code:	5
Туре:	G		
Primitive:	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 for use in hydrographic survey (IHO Dictionary, S-32, 5th Edition, 420). A cardinal beacon 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
PICREP	0	
CONDTN	0	value list = "1,2,3,5"
HEIGHT	0	unit = "m" decimal digits = "2"
VERLEN	0	unit = "m" decimal digits = "1"
BCNSHP	М	value list = "1,2,3,4,5,6,7"
CATCAM	М	value list = "1,2,3,4"
COLOUR	М	value list = "2,6"
COLPAT	М	value list = "1"
MARSYS	С	value list = "1,2"
INFORM	0	
NINFOM	0	
OBJNAM	0	
NOBJNM	0	
CONRAD	0	value list = "3"
PERSTA	0	format = "ccyymmdd"
PEREND	0	format = "ccyymmdd"
DATSTA	0	format = "ccyymmdd"

acronym	usage	constraints
DATEND	0	format = "ccyymmdd"
SCAMIN	М	min = "1"
SORDAT	С	format = "ccyymmdd"
SORIND	С	format = "cc,cc,ccccc,c"
TXTDSC	0	
NTXTDS	0	
STATUS	0	value list = "5"

Feature	Beacon, isolated danger		
Acronym:	BCNISD	Code:	6
Type:	G		
Primitive:	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	0	format = "ccyymmdd"
CONDTN	0	value list = "1,2,3,5"
OBJNAM	0	
NOBJNM	0	
INFORM	0	
NINFOM	0	
SCAMIN	M	min = "1"
PICREP	0	
TXTDSC	0	
SORDAT	С	format = "ccyymmdd"
SORIND	С	format = "cc,cc,cccc,c"

acronym usage constraints

NTXTDS O

STATUS O value list = "5"

Feature	Beacon, lateral		
Acronym:	BCNLAT	Code:	7
Type:	G		
Primitive:	Р		

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:

acronym	usage	constraints
BCNSHP	M	value list = "1"
CATLAM	M	value list = "1,2"
COLOUR	M	value list = "1,2,3,4"
COLPAT	С	value list = "1"
DATSTA	0	format = "ccyymmdd"
DATEND	0	format = "ccyymmdd"
PERSTA	0	format = "ccyymmdd"
PEREND	0	format = "ccyymmdd"
CONDTN	0	value list = "1,2,3,5"
OBJNAM	0	
NOBJNM	0	
INFORM	0	
NINFOM	0	
SCAMIN	M	min = "1"
PICREP	0	
TXTDSC	0	
SORDAT	С	format = "ccyymmdd"

acronym	usage	constraints
SORIND	С	format = "cc,cc,ccccc,c"
NTXTDS	0	
STATUS	0	value list = "5"

Feature	Beacon, safe water		
Acronym:	BCNSAW	Code:	8
Type:	G		
Primitive:	Р		

Data Dictionary (DD) Reference:

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

Definition: A safe water 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 safe water

beacon may be used to indicate that there is navigable water around the mark. (UKHO NP735, 5th Edition)

Attribute Bindings:

acronym	usage	constraints
PICREP	0	
CONDTN	0	value list = "1,2,3,5"
HEIGHT	0	unit = "m" decimal digits = "2"
VERLEN	0	unit = "m" decimal digits = "1"
BCNSHP	M	value list = "1,2,3,4,5,6,7"
COLOUR	M	value list = "1,3"
COLPAT	M	value list = "2"
MARSYS	С	value list = "1,2"
CONRAD	0	value list = "3"
INFORM	0	
NINFOM	0	
OBJNAM	0	
NOBJNM	0	
TXTDSC	Ο	
NTXTDS	0	
DATSTA	0	format = "ccyymmdd"
DATEND	0	format = "ccyymmdd"
PERSTA	0	format = "ccyymmdd"

acronym	usage	constraints
PEREND	0	format = "ccyymmdd"
STATUS	0	value list = "2,3,4,5,8,9,12,14,16,17,18"
SCAMIN	М	min = "1"
SORDAT	С	format = "ccyymmdd"
SORIND	С	format = "cc,cc,ccccc,c""

Feature	Beacon, special purpose/general		
Acronym:	BCNSPP	Code:	9
Type:	G		
Primitive:	Р		

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 special purpose beacon is primarily used to indicate an area or features, the nature of which is apparent from reference to a chart, Sailing Directions or Notices to Mariners. (UKHO NP 735, 5th Edition). Beacon in general: A

beacon whose appearance or purpose is not adequately known.

Attribute Bindings:

acronym	usage	constraints
MARSYS	С	value list = "1,2"
CONDTN	0	value list = "1,2,3,5"
COLPAT	0	value list = "1,2,3,4,5,6"
HEIGHT	0	unit = "m" decimal digits = "2"
VERLEN	0	unit = "m" decimal digits = "1"
BCNSHP	М	value list = "1,2,3,4,5,6,7"
CATSPM	M	value list = "1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56"
COLOUR	М	value list = "1,2,3,4,5,6,7,8,9,10,11,12,13"
CONRAD	0	value list = "3"
OBJNAM	0	
NOBJNM	0	
DATSTA	0	format = "ccyymmdd"
DATEND	0	format = "ccyymmdd"
PERSTA	0	format = "ccyymmdd"
PEREND	0	format = "ccyymmdd"
INFORM	0	

acronym	usage	constraints
NINFOM	0	
SCAMIN	M	min = "1"
PICREP	0	
TXTDSC	0	
NTXTDS	Ο	
SORDAT	С	format = "ccyymmdd"
SORIND	С	format = "cc,cc,cccc,c"
STATUS	0	value list = "5"

Feature	Building, single		
Acronym:	BUISGL	Code:	12
Туре:	G		
Primitive:	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:

CONVIS O value list = "1,2"	
FUNCTN C value list = "2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34 5,36,37,38,39,40,41,42"	4,3
CONDTN O value list = "1,2,3,4,5"	
OBJNAM O	
NOBJNM O	
INFORM O	
NINFOM O	
SCAMIN M min = "1"	
PICREP O	
TXTDSC O	
SORDAT C format = "ccyymmdd"	
SORIND C format = "cc,cc,ccccc,c"	
NTXTDS O	

Feature	Built-up area		
Acronym:	BUAARE	Code:	13
Type:	G		
Primitive:	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"
CONDTN	0	value list = "1,2,3,5"
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"
NTXTDS	0	
locmrn	С	
unlocd	С	

Feature	Buoy, cardinal		
Acronym:	BOYCAR	Code:	14
Type:	G		
Primitive:	Р		

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	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	0	format = "ccyymmdd"
PEREND	0	format = "ccyymmdd"
NOBJNM	С	
OBJNAM	С	
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"
NTXTDS	0	
mmsico	0	format = "xxxxxxxxxx"
STATUS	0	value list = "5"

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

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). 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:

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

acronym	usage	constraints
NTXTDS	Ο	
mmsico	0	format = "xxxxxxxxxx"
STATUS	0	value list = "5"

Feature	Buoy, lateral		
Acronym:	BOYLAT	Code:	17
Type:	G		
Primitive:	Р		

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	M	value list = "1,2,3,4,5,6,8"
CATLAM	M	value list = "1,2,3,4"
COLOUR	M	value list = "1,2,3,4,5,6,7,8,9,10,11,12,13"
COLPAT	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	
NINFOM	0	
SCAMIN	M	min = "1"
PICREP	0	
TXTDSC	0	
SORDAT	С	format = "ccyymmdd"

acronym	usage	constraints
SORIND	С	format = "cc,cc,cccc,c"
NTXTDS	0	
typatn	0	value list = "1,2,3"
mmsico	0	format = "xxxxxxxxx"
STATUS	0	value list = "5"

Feature	Buoy, safe water		
Acronym:	BOYSAW	Code:	18
Type:	G		
Primitive:	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	M	value list = "1,2,3,4,5,6,8"
COLOUR	M	value list = "1,2,3,4,5,6,7,8,9,10,11,12,13"
COLPAT	M	value list = "1,2,3,4,5,6"
CONRAD	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	
NINFOM	0	
SCAMIN	M	min = "1"
PICREP	0	
TXTDSC	0	
SORDAT	С	format = "ccyymmdd"
SORIND	С	format = "cc,cc,cccc,c"

acronym	usage	constraints
NTXTDS	Ο	
mmsico	0	format = "xxxxxxxxxx"
STATUS	0	value list = "5"

Feature	Buoy, special purpose/general		
Acronym:	BOYSPP	Code:	19
Туре:	G		
Primitive:	Р		

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	M	value list = "1,2,3,4,5,6,8"
CATSPM	М	value list = "1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56"
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	
NINFOM	0	
SCAMIN	М	min = "1"
PICREP	Ο	

acronym	usage	constraints
TXTDSC	0	
SORDAT	С	format = "ccyymmdd"
SORIND	С	format = "cc,cc,cccc,c"
NTXTDS	0	
typatn	0	value list = "1,2,3"
mmsico	0	format = "xxxxxxxxxx"
STATUS	0	value list = "5"

Feature	Cable area		
Acronym:	CBLARE	Code:	20
Type:	G		
Primitive:	Α		

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 = "5,18"
RESTRN	0	value list = "1,38"
CONDTN	0	value list = "1,2,3,5"
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"
NTXTDS	0	
DATSTA	0	format = "ccyymmdd"
DATEND	0	format = "ccyymmdd"

Feature	Cable, submarine		
Acronym:	CBLSUB	Code:	22
Туре:	G		
Primitive:	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:

usage	constraints
0	value list = "1,3,4,5,6"
С	value list = "4,5,18"
Ο	format = "ccyymmdd"
0	format = "ccyymmdd"
Ο	
0	
Ο	
0	
М	min = "1"
0	
0	
С	format = "ccyymmdd"
С	format = "cc,cc,ccccc,c
0	
	O C O O O O C C

Feature	Canal		
Acronym:	CANALS	Code:	23
Type:	G		
Primitive:	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"
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
NTXTDS	0	

Feature	Cargo Transhipment Area		
Acronym:	CTSARE	Code:	25
Type:	G		
Primitive:	P,A		

Data Dictionary (DD) Reference:

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

Definition: An area designated for the transfer of cargo from one vessel to another. (adapted from IHO Dictionary, S-

32, 5th Edition, 5593).

Attribute Bindings:

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

Feature	Causeway		
Acronym:	CAUSWY	Code:	26
Type:	G		
Primitive:	L,A		

Data Dictionary (DD) Reference:

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

Definition: A raised way across low or wet ground or water. (IHO Dictionary, S-32, 5th Edition, 662)

Attribute Bindings:

acronym	usage	constraints
OBJNAM	0	
NOBJNM	0	
INFORM	0	
NINFOM	0	
CONDTN	0	value list = "1,2,3,5"
WATLEV	М	value list = "2,4"
SCAMIN	М	min = "1"
SORDAT	С	format = "ccyymmdd"
SORIND	С	format = "cc,cc,cccc,c"
TXTDSC	0	
NTXTDS	0	
PICREP	0	

Feature	Caution area		
Acronym:	CTNARE	Code:	27
Type:	G		
Primitive:	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,cccc,c"
NTXTDS	0	
HORACC	0	unit = "m" decimal digits = "2"
VERACC	0	unit = "m" decimal digits = "2"
CATTEV	0	value list = "4,5,6"
STATUS	0	value list = "5"

Feature	Coastguard station		
Acronym:	CGUSTA	Code:	29
Туре:	G		
Primitive:	Р		

Data Dictionary (DD) Reference:

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

Definition: Watch keeping stations at which a watch is kept either continuously, or at certain times only. (IHO Chart

Specifications, M-4)

Attribute Bindings:

acronym	usage	constraints
COMCHA	М	format = "[[XXXX];[XXXX];]"
OBJNAM	0	
NOBJNM	0	
STATUS	С	value list = "1,2,3,4,5,6,7,8,9,11,12,13,14,15,16,17,18"
INFORM	0	
NINFOM	0	
TXTDSC	0	
NTXTDS	0	
SCAMIN	М	min = "1"
SORDAT	С	format = "ccyymmdd"
SORIND	С	format = "cc,cc,ccccc,c"
DATSTA	0	format = "ccyymmdd"
DATEND	0	format = "ccyymmdd"
PERSTA	0	format = "ccyymmdd"
PEREND	0	format = "ccyymmdd"
PICREP	0	

Feature	Coastline		
Acronym:	COALNE	Code:	30
Type:	G		
Primitive:	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:

acronym	usage	constraints
CATCOA	Ο	value list = "1,2,3,4,5,6,7,8,9,10,11"
OBJNAM	Ο	
NOBJNM	Ο	
INFORM	Ο	
NINFOM	Ο	
SCAMIN	M	min = "1"
PICREP	Ο	
TXTDSC	Ο	
SORDAT	С	format = "ccyymmdd"
SORIND	С	format = "cc,cc,ccccc,c"
NTXTDS	Ο	
HORACC	Ο	decimal digits = "2" unit = "m"
VERACC	Ο	unit = "m" decimal digits = "2"
CATTEV	Ο	value list = "4,5,6"

Feature	Conveyor		
Acronym:	CONVYR	Code:	34
Туре:	G		
Primitive:	L,A		

Data Dictionary (DD) Reference:

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

Definition: A mechanical apparatus for moving bulk material or people from place to place (as by a moving belt or

chain of receptacles).

Attribute Bindings:

acronym	usage	constraints
CATCON	М	value list = "1,2"
DATSTA	0	format = "ccyymmdd"
DATEND	0	format = "ccyymmdd"
PRODCT	0	value list = "1,2,3,4,5,6,7,8,14,15,17,21,22"
VERCLR	0	unit = "m" decimal digits = "2"
CONDTN	0	value list = "1,2,3,5"
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"
NTXTDS	0	
vcrlev	0	
vcrval	0	unit = "m" decimal digits = "2"
HORACC	0	unit = "m" decimal digits = "2"

acronym	usage	constraints
VERACC	0	unit = "m" decimal digits = "2"
CATTEV	0	value list = "4,5,6"
STATUS	0	value list = "4,12"

Feature	Coverage		
Acronym:	M COVR	Code:	302

Type: M Primitive: 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	M	value list = "1,2"
SORDAT	С	format = "ccyymmdd"
SORIND	С	format = "cc,cc,ccccc,c"

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

Data Dictionary (DD) Reference:

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	Ο	value list = "2,3,4,5"
VERCLR	Ο	unit = "m" decimal digits = "2"
CONDTN	Ο	value list = "1,2,3,5"
OBJNAM	Ο	
NOBJNM	Ο	
INFORM	0	
NINFOM	0	
SCAMIN	М	min = "1"
PICREP	0	
TXTDSC	0	
SORDAT	С	format = "ccyymmdd"
SORIND	С	format = "cc,cc,ccccc,c"
NTXTDS	0	
vcrlev	0	
vcrval	0	unit = "m" decimal digits = "2"
HORACC	0	unit = "m" decimal digits = "2"
VERACC	0	unit = "m" decimal digits = "2"
CATTEV	0	value list = "4,5,6"

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

Data Dictionary (DD) Reference:

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	M	value list = "1,2,3"
DATSTA	Ο	format = "ccyymmdd"
DATEND	0	format = "ccyymmdd"
NATCON	Ο	value list = "1,2,3,4,5,6,7,8,9"
CONDTN	Ο	value list = "1,2,3,5"
INFORM	Ο	
NINFOM	Ο	
SCAMIN	M	min = "1"
PICREP	Ο	
TXTDSC	Ο	
SORDAT	С	format = "ccyymmdd"
SORIND	С	format = "cc,cc,ccccc,c"
NTXTDS	Ο	
OBJNAM	Ο	
NOBJNM	Ο	
HORACC	Ο	unit = "m" decimal digits = "2"
VERACC	Ο	unit = "m" decimal digits = "2"
CATTEV	0	value list = "4,5,6"

Feature	Daymark		
Acronym:	DAYMAR	Code:	39
Type:	G		
Primitive:	P		

Data Dictionary (DD) Reference:

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:

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 = "1-33"
CONDTN	0	value list = "1,2,3,5"
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"

acronym usage constraints

NTXTDS O

STATUS O value list = "5"

Feature	Depth area		
Acronym:	DEPARE	Code:	42
Type:	G		
Primitive:	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" decimal digits = "2"
DRVAL2	M	unit = "m" decimal digits = "2"
INFORM	С	
NINFOM	0	
QUASOU	С	value list = "1,2,8,10,11"
SORDAT	С	format = "ccyymmdd"
SORIND	С	format = "cc,cc,ccccc,c"
HORACC	0	unit = "m" decimal digits = "2"
VERACC	0	unit = "m" decimal digits = "2"
CATTEV	0	value list = "4,5,6"

Feature	Depth contour		
Acronym:	DEPCNT	Code:	43
Type:	G		
Primitive:	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:

acronym	usage	constraints
VALDCO	M	unit = "m" decimal digits = "2"
SCAMIN	M	min = "1"
SORDAT	С	format = "ccyymmdd"
SORIND	С	format = "cc,cc,ccccc,c"
PICREP	0	
INFORM	0	
NINFOM	Ο	
HORACC	0	unit = "m" decimal digits = "2"
VERACC	Ο	unit = "m" decimal digits = "2"
CATTEV	0	value list = "4,5,6"

Feature	Dredged area		
Acronym:	DRGARE	Code:	46
Туре:	G		
Primitive:	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" decimal digits = "2"
SORDAT	С	format = "ccyymmdd"
SORIND	С	format = "cc,cc,ccccc,c"
OBJNAM	0	
NOBJNM	0	
INFORM	0	
NINFOM	0	
TXTDSC	0	
NTXTDS	0	
PICREP	0	
HORACC	0	unit = "m" decimal digits = "2"
VERACC	0	unit = "m" decimal digits = "2"
CATTEV	0	value list = "4,5,6"

Feature	Dry dock		
Acronym:	DRYDOC	Code:	47
Туре:	G		
Primitive:	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" decimal digits = "2"
HORCLR	0	unit = "m" decimal digits = "2"
HORLEN	0	unit = "m" decimal digits = "2"
HORWID	0	unit = "m" decimal digits = "2"
CONDTN	0	value list = "1,2,3,5"
OBJNAM	Ο	
NOBJNM	Ο	
INFORM	Ο	
NINFOM	Ο	
SCAMIN	М	min = "1"
PICREP	Ο	
TXTDSC	Ο	
SORDAT	С	format = "ccyymmdd"
SORIND	С	format = "cc,cc,ccccc,c"
NTXTDS	0	
HORACC	Ο	unit = "m" decimal digits = "2"
VERACC	0	unit = "m" decimal digits = "2"
CATTEV	0	value list = "4,5,6"

Feature	Dumping ground		
Acronym:	DMPGRD	Code:	48
Туре:	G		
Primitive:	A		

Data Dictionary (DD) Reference:

DD Name: HYDRO Date accepted: 2010-09-08

Definition: A sea area where dredged material or other potentially more harmful material, e.g. explosives, chemical

waste, is deliberately deposited. (Derived from IHO Chart Specifications, M-4).

Attribute Bindings:

acronym	usage	constraints
CATDPG	М	value list = "2,4,5"
RESTRN	С	value list = "1,3,5,7,8,24"
OBJNAM	0	
NOBJNM	0	
INFORM	0	
NINFOM	0	
SCAMIN	М	min = "1"
SORDAT	С	format = "ccyymmdd"
SORIND	С	format = "cc,cc,cccc,c"
TXTDSC	0	
NTXTDS	0	
PICREP	0	

Feature	Dyke		
Acronym:	DYKCON	Code:	49
Type:	G		
Primitive:	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
,	usage	
HEIGHT	0	unit = "m" decimal digits = "2"
CONDTN	0	value list = "1,2,3,5"
OBJNAM	Ο	
NOBJNM	0	
INFORM	Ο	
NINFOM	Ο	
SCAMIN	M	min = "1"
PICREP	Ο	
TXTDSC	0	
DATSTA	0	format = "ccyymmdd"
DATEND	0	format = "ccyymmdd"
SORDAT	С	format = "ccyymmdd"
SORIND	С	format = "cc,cc,ccccc,c"
NTXTDS	0	
HORACC	0	unit = "m" decimal digits = "2"
VERACC	0	unit = "m" decimal digits = "2"
CATTEV	0	value list = "4,5,6"

Feature	Fairway		
Acronym:	FAIRWY	Code:	51
Type:	G		
Primitive:	A		

Data Dictionary (DD) Reference:

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"
SORDAT	С	format = "ccyymmdd"
SORIND	С	format = "cc,cc,cccc,c"
NTXTDS	0	

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

Data Dictionary (DD) Reference:

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"
CONDTN	0	value list = "1,2,3,5"
OBJNAM	0	
NOBJNM	0	
INFORM	0	
NINFOM	0	
SCAMIN	М	min = "1"
PICREP	0	
TXTDSC	Ο	
SORDAT	С	format = "ccyymmdd"
SORIND	С	format = "cc,cc,ccccc,c"
NTXTDS	0	

Feature	Ferry route		
Acronym:	FERYRT	Code:	53
Type:	G		
Primitive:	L		

Data Dictionary (DD) Reference:

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 = "2,3,4,5,8,9,12,14,16,17"
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"
NTXTDS	0	
locmrn	С	
unlocd	С	

Feature	Fishing facility		
Acronym:	FSHFAC	Code:	55
Type:	G		
Primitive:	P,L,A		

Data Dictionary (DD) Reference:

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

Definition: A structure in shallow water for fishing purposes which can be an obstruction to ships in general. The

position of these structures may vary frequently over time.

Attribute Bindings:

acronym	usage	constraints
CATFIF	Ο	value list = "1,2,3,4"
OBJNAM	Ο	
NOBJNM	Ο	
INFORM	0	
NINFOM	Ο	
STATUS	С	value list = "2,4,5"
PERSTA	Ο	format = "ccyymmdd"
PEREND	Ο	format = "ccyymmdd"
VERLEN	Ο	unit = "m" decimal digits = "1"
SCAMIN	М	min = "1"
SORDAT	С	format = "ccyymmdd"
SORIND	С	format = "cc,cc,ccccc,c"
TXTDSC	Ο	
NTXTDS	0	
PICREP	0	

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

Data Dictionary (DD) Reference:

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" decimal digits = "2"
HORCLR	0	unit = "m" decimal digits = "2"
HORLEN	0	unit = "m" decimal digits = "2"
HORWID	0	unit = "m" decimal digits = "2"
CONDTN	0	value list = "1,2,3,5"
OBJNAM	0	
NOBJNM	0	
INFORM	0	
NINFOM	0	
PICREP	0	
TXTDSC	0	
SORDAT	С	format = "ccyymmdd"
SORIND	С	format = "cc,cc,ccccc,c"
NTXTDS	0	
DATSTA	0	format = "ccyymmdd"
DATEND	0	format = "ccyymmdd"
sdrlev	0	
sdrval	0	unit = "m" decimal digits = "2"

acronym	usage	constraints
vcrlev	0	
vcrval	0	unit = "m" decimal digits = "2"
HORACC	0	unit = "m" decimal digits = "2"
VERACC	0	unit = "m" decimal digits = "2"
CATTEV	0	value list = "4,5,6"
STATUS	0	value list = "1,4,6,7,8,12"

Feature	Fog signal		
Acronym:	FOGSIG	Code:	58
Type:	G		
Primitive:	Р		

Data Dictionary (DD) Reference:

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)

Attribute Bindings:

acronym	usage	constraints
CATFOG	М	value list = "1,2,3,4,5,6,7,8,9,10"
SIGFRQ	0	unit = "Hz" min = "0"
SIGGEN	Ο	value list = "1,2"
SIGGRP	С	format = "(c)(c)"
SIGPER	С	unit = "s" decimal digits = "2"
SIGSEQ	С	format = "LL.L + (EE.E)"
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"
DATEND	0	format = "ccyymmdd"
PERSTA	0	format = "ccyymmdd"
PEREND	0	format = "ccyymmdd"
SORDAT	С	format = "ccyymmdd"

acronym	usage	constraints
SORIND	С	format = "cc,cc,ccccc,c"
NTXTDS	0	
STATUS	0	value list = "5"

Feature	Fortified Structure		
Acronym:	FORSTC	Code:	59
Type:	G		
Primitive:	P,L,A		

Data Dictionary (DD) Reference:

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

Definition: A structure for the military defence of a site.

Attribute Bindings:

acronym	usage	constraints
CATFOR	M	value list = "1,2,3,4,5,6"
CONDTN	0	value list = "2"
CONVIS	0	value list = "1,2"
NATCON	0	value list = "1,2,6,7"
OBJNAM	0	
NOBJNM	0	
SCAMIN	М	min = "1"
SORDAT	С	format = "ccyymmdd"
SORIND	С	format = "cc,cc,ccccc,c"
TXTDSC	0	
NTXTDS	0	
PICREP	0	

Feature	Free port area		
Acronym:	FRPARE	Code:	60
Type:	G		
Primitive:	Α		

Data Dictionary (DD) Reference:

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
CONDTN	0	value list = "1,2,3,5"
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"
NTXTDS	0	

Feature	Gate		
Acronym:	GATCON	Code:	61
Type:	G		
Primitive:	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	М	value list = "2,4"
HORCLR	М	unit = "m" decimal digits = "2"
VERCLR	0	unit = "m" decimal digits = "2"
VERDAT	0	value list = "4,23,30"
CONDTN	0	value list = "1,2,3,5"
OBJNAM	0	
NOBJNM	0	
unlocd	С	
INFORM	0	
NINFOM	0	
SCAMIN	М	min = "1"
PICREP	0	
TXTDSC	0	
SORDAT	С	format = "ccyymmdd"
SORIND	С	format = "cc,cc,ccccc,c"
NTXTDS	0	
vcrlev	0	
vcrval	0	unit = "m" decimal digits = "2"
locmrn	С	

acronym	usage	constraints
HORACC	0	unit = "m" decimal digits = "2"
VERACC	0	unit = "m" decimal digits = "2"
CATTEV	0	value list = "4,5,6"

Feature	Gridiron		
Acronym:	GRIDRN	Code:	62
Туре:	G		
Primitive:	P,A		

Data Dictionary (DD) Reference:

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

Definition: A structure in the intertidal zone serving as a support for vessels at low stages of the tide to permit work on

the exposed portion of the vessel's hull. Also called careening grid. (adapted from IHO Dictionary, S-32,

5th Edition, 649)

Attribute Bindings:

acronym	usage	constraints
HORLEN	0	unit = "m" decimal digits = "1"
HORWID	0	unit = "m" decimal digits = "1"
VERLEN	0	unit = "m" decimal digits = "1"
NATCON	0	value list = "2,6"
OBJNAM	0	
NOBJNM	0	
INFORM	0	
NINFOM	0	
STATUS	0	value list = "4,8,14"
CONDTN	0	value list = "1,2,5"
WATLEV	0	value list = "3,4"
SCAMIN	M	min = "1"
SORDAT	С	format = "ccyymmdd"
SORIND	С	format = "cc,cc,ccccc,c"
PICREP	0	
TXTDSC	0	
NTXTDS	0	

Feature	Harbour facility		
Acronym:	HRBFAC	Code:	64
Type:	G		
Primitive:	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"
CONDTN	0	value list = "1,2,3,5"
OBJNAM	М	
NOBJNM	Ο	
INFORM	Ο	
NINFOM	Ο	
SCAMIN	М	min = "1"
PICREP	Ο	
TXTDSC	Ο	
DATSTA	0	format = "ccyymmdd"
DATEND	Ο	format = "ccyymmdd"
PERSTA	0	format = "ccyymmdd"
PEREND	0	format = "ccyymmdd"
SORDAT	С	format = "ccyymmdd"
SORIND	С	format = "cc,cc,cccc,c"
NTXTDS	0	
unlocd	С	
locmrn	С	
STATUS	0	value list = "5"

Feature	Hulk

Acronym: HULKES Code: 65

Type: G Primitive: A

Data Dictionary (DD) Reference:

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

Definition: A permanently moored ship.

Attribute Bindings:

acronym	usage	constraints
CATHLK	М	value list = "1,2,3,4,5"
CONDTN	0	value list = "1,2,3,5"
OBJNAM	0	
NOBJNM	0	
INFORM	0	
NINFOM	0	
PICREP	0	
TXTDSC	0	
SORDAT	С	format = "ccyymmdd"
SORIND	С	format = "cc,cc,ccccc,c"
NTXTDS	0	
HORACC	0	unit = "m" decimal digits = "2"
VERACC	0	unit = "m" decimal digits = "2"
CATTEV	0	value list = "4,5,6"

Feature	Lake		
Acronym:	LAKARE	Code:	69
Type:	G		
Primitive:	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	
SORDAT	С	format = "ccyymmdd"
SORIND	С	format = "cc,cc,cccc,c"
NTXTDS	0	

Feature	Land area		
Acronym:	LNDARE	Code:	71
Туре:	G		
Primitive:	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	
SORDAT	С	format = "ccyymmdd"
SORIND	С	format = "cc,cc,ccccc,c"
NTXTDS	0	

Feature	Land region		
Acronym:	LNDRGN	Code:	73
Type:	G		
Primitive:	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
CONDTN	С	value list = "1,2,3,5"
OBJNAM	M	
NOBJNM	Ο	
INFORM	0	
NINFOM	Ο	
SCAMIN	M	min = "1"
PICREP	0	
TXTDSC	Ο	
SORDAT	С	format = "ccyymmdd"
SORIND	С	format = "cc,cc,ccccc,c"
NTXTDS	0	
CATLND	0	value list = "2,9,11,12"

Feature	Landmark		
Acronym:	LNDMRK	Code:	74
Туре:	G		
Primitive:	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"
CONVIS	M	value list = "1"
FUNCTN	С	value list = "2-42"
CONDTN	0	value list = "1,2,3,4,5"
OBJNAM	0	
NOBJNM	0	
INFORM	0	
NINFOM	0	
SCAMIN	M	min = "1"
PICREP	0	
TXTDSC	0	
SORDAT	С	format = "ccyymmdd"
SORIND	С	format = "cc,cc,cccc,c"
NTXTDS	0	
VERLEN	0	unit = "defined in hunits" decimal digits = "1"
COLOUR	0	value list = "1,2,3,4,5,6,7,8,9,10,11,12,13"

Feature	Light		
Acronym:	LIGHTS	Code:	75
Type:	G		
Primitive:	Р		

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	С	value list = "1,4,5,6,12,13,14,15"
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 = "1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,25,26,27,28,29"
LITVIS	С	value list = "3,4,7,8"
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 = "LL.L + (EE.E)"
STATUS	С	value list = "2,3,4,5.8,9,12,14,16,17"
CONDTN	С	value list = "1,2,3,5"
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,ccccc,c"
NTXTDS	0	
HEIGHT	0	unit = "defined in hunits" decimal digits = "1"
VALNMR	0	

Feature	Magnetic Variation			
Acronym:	MAGVAR	Code:	81	
Type:	G			
Primitive:	P,L,A			

Data Dictionary (DD) Reference:

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

Definition: The angle between the magnetic and geographic (true) north at a location, expressed in degrees east or

west from the direction of true north

Attribute Bindings:

acronym	usage	constraints
NTXTDS	0	
VALMAG	М	format = "sxx.xx"
VALACM	М	format = "sxx.xx"
RYRMGV	М	format = "ccyy"
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"
DATSTA	0	format = "ccyymmdd"
DATEND	0	format = "ccyymmdd"

Feature	Marine farm/culture			
Acronym:	MARCUL	Code:	82	
Type:	G			
Primitive:	P,L,A			

Data Dictionary (DD) Reference:

DD Name: HYDRO Date accepted: 2010-08-12

Definition: An assemblage of cages, nets, rafts and floats or posts where fish, including shellfish,

are artificially cultivated.

Attribute Bindings:

acronym	usage	constraints
•	_	
CATMFA	M	value list = "1,2,3,4"
EXPSOU	С	value list = "1,2,3"
VALSOU	С	unit = "m" decimal digits = "2"
QUASOU	0	value list = "1,2,3,4,6,7,8,9"
SOUACC	С	unit = "m" decimal digits = "2"
WATLEV	С	value list = "1,2,3,4,5,7"
STATUS	С	value list = "2,4,5"
OBJNAM	0	
NOBJNM	0	
INFORM	0	
NINFOM	0	
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"
PICREP	0	

acronym	usage	constraints
TXTDSC	0	
NTXTDS	0	

Feature	Military practice area			
Acronym:	MIPARE	Code:	83	
Туре:	G			
Primitive:	P,A			

Data Dictionary (DD) Reference:

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

Definition: An area within which naval, military or aerial exercises are carried out. Also called an exercise area.

Attribute Bindings:

acronym	usage	constraints
RESTRN	0	value list = "1,2,3,4,5,6,7,8,9,10,11,12,13,14,,2715,16,17,18,19,20,21,22,23,24,25,26"
CATMPA	Ο	value list = "2,3,4,5,6"
OBJNAM	0	
NOBJNM	0	
INFORM	0	
NINFOM	0	
SCAMIN	М	min = "1"
PICREP	0	
TXTDSC	0	
NTXTDS	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"
STATUS	Ο	value list = "2,4,5"

Feature	Mooring/Warping facility			
Acronym:	MORFAC	Code:	84	
Type:	G			
Primitive:	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 = "1,2,3,4,5,7"
NATCON	0	value list = "1,2,3,4,5,6,7,8,9"
WATLEV	0	value list = "1,2,3,4,5"
CONDTN	0	value list = "1,2,3,5"
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"
NTXTDS	0	
COLOUR	0	value list = "1,2,3,4,5,6,7,8,9,10,11,12,13"
BOYSHP	С	value list = "2,3,7"

acronym	usage	constraints
HORACC	0	unit = "m" decimal digits = "2"
VERACC	0	unit = "m" decimal digits = "2"
CATTEV	0	value list = "4,5,6"
STATUS	Ο	value list = "5"

Feature	Nautical Publication Information			
Acronym:	M_NPUB	Code:	305	
Type:	M			
Primitive:	Α			

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	С	format = "ccyymmdd"
SORIND	С	format = "cc,cc,cccc,c"
NTXTDS	0	

Feature	Navigation line		
Acronym:	NAVLNE	Code:	85
Туре:	G		
Primitive:	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	M	unit = "deg" 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,cccc,c"
NTXTDS	0	
STATUS	0	value list = "5"

Feature	New Object		
Acronym:	NEWOBJ	Code:	163
Type:	G		
Primitive:	Р		

Data Dictionary (DD) Reference:

DD Name: HYDRO Date accepted: 2012-01-01

Definition: A new feature specified by the IMO and that affects safety of navigation which cannot adequately be

encoded by any existing object class for use in an S-57 data set.

Attribute Bindings:

acronym	usage	constraints
CLSNAM	М	
CLSDEF	М	
SYMINS	М	
DATEND	0	format = "ccyymmdd"
DATSTA	0	format = "ccyymmdd"
INFORM	М	
NINFOM	0	
OBJNAM	0	
NOBJNM	0	
TXTDSC	0	
NTXTDS	0	
PEREND	0	format = "ccyymmdd"
PERSTA	0	format = "ccyymmdd"
SCAMIN	М	min = "1"
SORDAT	С	format = "ccyymmdd"
SORIND	С	format = "cc,cc,cccc,c"
PICREP	0	
mmsico	0	format = "xxxxxxxxx"
STATUS	Ο	value list = "5"

Feature	Obstruction		
Acronym:	OBSTRN	Code:	86
Type:	G		
Primitive:	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 = "1,2,3,4,5,6,7,8,9,10,11"
NATSUR	С	value list = "9"
VALSOU	С	unit = "m" 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	
SORDAT	С	format = "ccyymmdd"
SORIND	С	format = "cc,cc,ccccc,c"
NTXTDS	0	
EXPSOU	С	value list = "1,2,3"
NATCON	0	value list = "1,2,3,4,6,7,8"
QUASOU	0	value list = "2,6,7,8"
HORACC	0	unit = "m" decimal digits = "2"

ooron\/m	110000	constraints
acronvm	usade	CONSTIAINS

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

CATTEV O value list = "4,5,6"

Feature	Offshore platform		
Acronym:	OFSPLF	Code:	87
Туре:	G		
Primitive:	P,A		

Data Dictionary (DD) Reference:

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

Definition: A permanent offshore structure, either fixed or floating, used in the production of oil or natural gas. (IHO

Dictionary, S-32, 5th Edition, 3895)

Attribute Bindings:

acronym	usage	constraints
INFORM	0	
NINFOM	0	
CATOFP	М	value list = "1,2,3,4,5,6,7,9"
COLOUR	М	value list = "1,2,3,4,5,6,7,8,9,10,11,12,13"
COLPAT	0	value list = "1,2,3,4,5,6"
CONDTN	0	value list = "1,2,5"
CONRAD	0	value list = "1,2,3"
CONVIS	0	value list = "1,2"
HEIGHT	0	unit = "m" decimal digits = "2"
NATCON	0	value list = "2,7,8"
OBJNAM	0	
NOBJNM	0	
PRODCT	0	value list = "1,2,18,19"
STATUS	0	value list = "2,4,7,12,16,17"
VERLEN	0	unit = "m" decimal digits = "1"
SCAMIN	М	min = "1"
SORDAT	С	format = "ccyymmdd"
SORIND	С	format = "cc,cc,ccccc,c"
DATSTA	0	format = "ccyymmdd"

acronym	usage	constraints
DATEND	0	format = "ccyymmdd"
PICREP	0	
TXTDSC	0	
NTXTDS	0	

Feature	Offshore production area		
Acronym:	OSPARE	Code:	88
Type:	G		
Primitive:	A		

Data Dictionary (DD) Reference:

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

Definition: An area off or away from the shore within which there are production facilities.

Attribute Bindings:

acronym	usage	constraints
INFORM	0	
NINFOM	0	
CATPRA	М	value list = "4,9"
CONDTN	0	value list = "1,2,3,4,5"
CONRAD	0	value list = "1,2,3"
CONVIS	0	value list = "1,2"
NATCON	0	value list = "2,7,8"
OBJNAM	0	
NOBJNM	0	
RESTRN	М	value list = "1,2,7,8,14"
STATUS	0	value list = "2,4,7,12,16,17"
VERLEN	0	unit = "m" decimal digits = "1"
SCAMIN	М	min = "1"
SORDAT	С	format = "ccyymmdd"
SORIND	С	format = "cc,cc,cccc,c"
DATSTA	0	format = "ccyymmdd"
DATEND	0	format = "ccyymmdd"
PICREP	0	
TXTDSC	0	
NTXTDS	0	

acronym usage constraints

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

Feature	Oil barrier		
Acronym:	OILBAR	Code:	89
Туре:	G		
Primitive:	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	M	min = "1"
PICREP	0	
TXTDSC	0	
DATSTA	0	format = "ccyymmdd"
DATEND	0	format = "ccyymmdd"
SORDAT	С	format = "ccyymmdd"
SORIND	С	format = "cc,cc,cccc,c"
NTXTDS	0	

Feature	Pile	
Acronym:	PILPNT	Code: 90
Type:	G	
Primitive:	Р	

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
CONDTN	0	value list = "1,2,3,5"
OBJNAM	С	
NOBJNM	0	
INFORM	0	
NINFOM	0	
SCAMIN	М	min = "1"
PICREP	0	
TXTDSC	0	
DATSTA	0	format = "ccyymmdd"
DATEND	0	format = "ccyymmdd"
SORDAT	С	format = "ccyymmdd"
SORIND	С	format = "cc,cc,ccccc,c"
NTXTDS	0	
VERLEN	0	unit = "defined in hunits" decimal digits = "1"
HEIGHT	0	unit = "defined in hunits" decimal digits = "1"
COLOUR	0	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"
HORACC	0	unit = "m" decimal digits = "2"

acronym	usage	constraints
VERACC	Ο	unit = "m" decimal digits = "2"
CATTEV	0	value list = "4,5,6"
STATUS	0	value list = "1,4,6,7,8,12,14"

Feature	Pilot boarding place		
Acronym:	PILBOP	Code:	91
Type:	G		
Primitive:	P,A		

Data Dictionary (DD) Reference:

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

Definition: The meeting place to which the pilot comes out. (IHO Chart Specifications, M-4)

Attribute Bindings:

acronym	usage	constraints
CATPIL	0	value list = "1,2,3"
COMCHA	0	format = "[[XXXX];[XXXX];]"
PILDST	0	
NPLDST	0	
OBJNAM	0	
NOBJNM	0	
STATUS	С	value list = "1,2,3,4,5,6,7,8,9,11,12,13,14,15,16,17,18"
SCAMIN	М	min = "1"
SORDAT	С	format = "ccyymmdd"
SORIND	С	format = "cc,cc,ccccc,c"
INFORM	0	
NINFOM	0	
TXTDSC	0	
NTXTDS	0	
PICREP	0	
DATSTA	0	format = "ccyymmdd"
DATEND	0	format = "ccyymmdd"
PERSTA	0	format = "ccyymmdd"
PEREND	0	format = "ccyymmdd"

Feature	Pipeline area		
Acronym:	PIPARE	Code:	92
Type:	G		
Primitive:	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 = "1,38"
STATUS	С	value list = "18"
CONDTN	0	value list = "1,2,3,5"
OBJNAM	0	
NOBJNM	0	
INFORM	0	
NINFOM	0	
SCAMIN	М	min = "1"
PICREP	0	
TXTDSC	0	
DATSTA	0	format = "ccyymmdd"
DATEND	0	format = "ccyymmdd"
SORDAT	С	format = "ccyymmdd"
SORIND	С	format = "cc,cc,cccc,c"
NTXTDS	0	

Feature	Pipeline, submarine/on land		
Acronym:	PIPSOL	Code:	94
Туре:	G		
Primitive:	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 = "4,18"
CONDTN	0	value list = "1,2,3,5"
OBJNAM	0	
NOBJNM	0	
INFORM	0	
NINFOM	0	
SCAMIN	М	min = "1"
PICREP	0	
TXTDSC	0	
DATSTA	0	format = "ccyymmdd"
DATEND	0	format = "ccyymmdd"
SORDAT	С	format = "ccyymmdd"
SORIND	С	format = "cc,cc,ccccc,c"
NTXTDS	Ο	

Feature	Pontoon		
Acronym:	PONTON	Code:	95
Type:	G		
Primitive:	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
CONDTN	0	value list = "1,2,3,5"
OBJNAM	0	
NOBJNM	0	
INFORM	0	
NINFOM	0	
PICREP	0	
TXTDSC	0	
SORDAT	С	format = "ccyymmdd"
SORIND	С	format = "cc,cc,ccccc,c"
NTXTDS	0	
HORACC	0	unit = "m" decimal digits = "2"
VERACC	0	unit = "m" decimal digits = "2"
CATTEV	0	value list = "4,5,6"
STATUS	0	value list = "5"
DATSTA	0	format = "ccyymmdd"
DATEND	0	format = "ccyymmdd"
PERSTA	0	format = "ccyymmdd"
PEREND	0	format = "ccyymmdd"

Feature	Production/storage area			
Acronym:	PRDARE	Code:	97	
Type:	G			
Primitive:	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"
CONDTN	0	value list = "1,2,3,5"
OBJNAM	0	
NOBJNM	0	
INFORM	0	
NINFOM	0	
PICREP	0	
TXTDSC	0	
DATSTA	0	format = "ccyymmdd"
DATEND	0	format = "ccyymmdd"
SORDAT	С	format = "ccyymmdd"
SORIND	С	format = "cc,cc,cccc,c"
SCAMIN	М	min = "1"
NTXTDS	0	

Feature	Pylon/bridge support			
Acronym:	PYLONS	Code:	98	
Туре:	G			
Primitive:	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"
CONDTN	0	value list = "1,2,3,5"
OBJNAM	Ο	
NOBJNM	0	
INFORM	Ο	
NINFOM	Ο	
SCAMIN	М	min = "1"
PICREP	Ο	
TXTDSC	Ο	
DATSTA	Ο	format = "ccyymmdd"
DATEND	Ο	format = "ccyymmdd"
SORDAT	С	format = "ccyymmdd"
SORIND	С	format = "cc,cc,ccccc,c"
NTXTDS	Ο	
HORACC	0	unit = "m" decimal digits = "2"
VERACC	0	unit = "m" decimal digits = "2"
CATTEV	0	value list = "4,5,6"

Feature	Quality of data		
Acronym:	M_QUAL	Code:	308
Туре:	M		
Primitive:	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" decimal digits = "2"
POSACC	0	unit = "m" decimal digits = "2"
SOUACC	0	unit = "m" decimal digits = "2"
SUREND	0	format = "ccyymmdd"
SURSTA	0	format = "ccyymmdd"
TECSOU	С	value list = "1,2,3,4,5,6,8,9,10,11,12,13,15"
SORDAT	С	format = "ccyymmdd"
SORIND	С	format = "cc,cc,ccccc,c"

Feature	Radar line		
Acronym:	RADLNE	Code:	99
Type:	G		
Primitive:	L		

Data Dictionary (DD) Reference:

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

Definition: A track along which ships may be guided by coastal radar stations in the event of bad visibility. Also known

as a radar guided track. (IHO Dictionary, S-32, 5th Edition, 4146).

Attribute Bindings:

acronym	usage	constraints
ORIENT	М	unit = "deg" decimal digits = "2"
OBJNAM	0	
NOBJNM	0	
INFORM	0	
NINFOM	0	
SCAMIN	М	min = "1"
SORDAT	С	format = "ccyymmdd"
SORIND	С	format = "cc,cc,ccccc,c"
TXTDSC	0	
NTXTDS	0	
PICREP	0	

Feature	Radar station			
Acronym:	RADSTA	Code:	102	
Туре:	G			
Primitive:	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	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"
NTXTDS	0	
STATUS	0	value list = "5"

Feature	Radar transponder beacon			
Acronym:	RTPBCN	Code:	103	
Type:	G			
Primitive:	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)"
CONDTN	0	value list = "1,2,3,5"
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"
NTXTDS	0	

acronym usage constraints

STATUS O value list = "5"

Feature	Railway		
Acronym:	RAILWY	Code:	106
Type:	G		
Primitive:	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
CONDTN	0	value list = "1,2,3,5"
OBJNAM	0	
NOBJNM	0	
INFORM	0	
NINFOM	0	
SCAMIN	M	min = "1"
PICREP	0	
TXTDSC	0	
SORDAT	С	format = "ccyymmdd"
SORIND	С	format = "cc,cc,cccc,c"
NTXTDS	0	

Feature	Recommended track			
Acronym:	RECTRC	Code:	109	
Type:	G			
Primitive:	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	M	value list = "1,2"
ORIENT	M	unit = "deg" decimal digits = "2"
DRVAL1	0	unit = "m" decimal digits = "2"
DRVAL2	0	unit = "m" decimal digits = "2"
TRAFIC	M	value list = "1,2,3,4"
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"
NTXTDS	0	
STATUS	0	value list = "5"

Feature	Recommended traffic lane part				
Acronym:	RCTLPT	Code:	110		
Type:	G				
Primitive:	P,A				

Data Dictionary (DD) Reference:

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

Definition: A recommended traffic lane part is an area of a recommended direction of traffic control area within which

traffic flow is generally along one bearing. (IHO Definition)

Attribute Bindings:

acronym	usage	constraints
ORIENT	M	unit = "deg" decimal digits = "2"
OBJNAM	0	
NOBJNM	0	
INFORM	Ο	
NINFOM	Ο	
DATSTA	Ο	format = "ccyymmdd"
DATEND	Ο	format = "ccyymmdd"
PERSTA	0	format = "ccyymmdd"
PEREND	Ο	format = "ccyymmdd"
TXTDSC	Ο	
NTXTDS	0	
PICREP	Ο	
SORDAT	С	format = "ccyymmdd"
SORIND	С	format = "cc,cc,ccccc,c"
SCAMIN	М	min = "1"
STATUS	0	value list = "5"

Feature	Rescue Station			
Acronym:	RSCSTA	Code:	111	
Type:	G			
Primitive:	P			

Data Dictionary (DD) Reference:

DD Name: HYDRO Date accepted: 2010-09-17

Definition: A place at which life saving equipment is held. (IHO Chart Specifications, M-4)

Attribute Bindings:

acronym	usage	constraints
catrsc	М	value list = "1,2,4,5,6,7,8,9"
STATUS	0	value list = "2,4,5"
OBJNAM	0	
NOBJNM	0	
INFORM	0	
NINFOM	0	
SCAMIN	М	min = "1"
NTXTDS	0	
TXTDSC	0	
DATSTA	0	format = "ccyymmdd"
DATEND	0	format = "ccyymmdd"
PERSTA	0	format = "ccyymmdd"
PEREND	Ο	format = "ccyymmdd"
SORDAT	С	format = "ccyymmdd"
SORIND	С	format = "cc,cc,ccccc,c"
PICREP	0	

Feature	Restricted area		
Acronym:	RESARE	Code:	112
Type:	G		
Primitive:	A		

Data Dictionary (DD) Reference:

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:

acronym	usage	constraints
RESTRN	M	value list = "1,7,8,38"
CATREA	С	value list = "1,12"
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"
CATTEV	0	value list = "4,5,6"
HORACC	0	unit = "m" decimal digits = "2"
VERACC	0	unit = "m" decimal digits = "2"
NTXTDS	0	

acronym usage constraints

STATUS O value list = "5"

Feature	River		
Acronym:	RIVERS	Code:	114
Type:	G		
Primitive:	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	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"
NTXTDS	0	

Feature	Road		
Acronym:	ROADWY	Code:	116
Type:	G		
Primitive:	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"
CONDTN	0	value list = "1,2,3,5"
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"
NTXTDS	0	

Feature	Runway		
Acronym:	RUNWAY	Code:	117
Type:	G		
Primitive:	P,L,A		

Data Dictionary (DD) Reference:

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

Definition: A defined rectangular area, on a land aerodrome, prepared for the landing and take-off run of aircraft along

its length.

Attribute Bindings:

acronym	usage	constraints
CATRUN	0	value list = "1,2"
CONVIS	0	value list = "1,2"
NATCON	0	value list = "4,5"
OBJNAM	0	
NOBJNM	0	
SCAMIN	М	min = "1"
SORDAT	С	format = "ccyymmdd"
SORIND	С	format = "cc,cc,ccccc,c"
PERSTA	0	format = "ccyymmdd"
PEREND	0	format = "ccyymmdd"
INFORM	0	
NINFOM	0	
TXTDSC	0	
NTXTDS	0	
PICREP	0	
STATUS	0	value list = "5"

Feature	Sand waves		
Acronym:	SNDWAV	Code:	118
Туре:	G		
Primitive:	P,L,A		

Data Dictionary (DD) Reference:

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

Definition: A large mobile wave-like sediment feature in shallow water and composed of sand. The wavelength may

reach 100 metres, the amplitude may be up to 20 metres.

Attribute Bindings:

acronym	usage	constraints
VERLEN	0	unit = "m" decimal digits = "1"
OBJNAM	0	
NOBJNM	0	
INFORM	0	
NINFOM	0	
SCAMIN	M	min = "1"
SORDAT	0	format = "ccyymmdd"
SORIND	0	format = "cc,cc,ccccc,c"
TXTDSC	0	
NTXTDS	0	
PICREP	0	

Feature	Sea area/named water area		
Acronym:	SEAARE	Code:	119
Type:	G		
Primitive:	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 = "5,12,13,51,52,53,54,57,58,59"
CONDTN	С	value list = "1,2,3,5"
OBJNAM	М	
NOBJNM	0	
INFORM	С	
NINFOM	0	
SCAMIN	М	min = "1"
PICREP	0	
TXTDSC	С	
SORDAT	С	format = "ccyymmdd"
SORIND	С	format = "cc,cc,cccc,c"
HORACC	0	unit = "m" decimal digits = "2"
VERACC	0	unit = "m" decimal digits = "2"
CATTEV	0	value list = "4,5,6"
NTXTDS	0	

Feature	Seabed Area		
Acronym:	SBDARE	Code:	121
Type:	G		
Primitive:	P,L,A		

Data Dictionary (DD) Reference:

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

Definition: An area of the sea where the nature of bottom is homogeneous. The nature of bottom includes the material

of which it is composed and its physical characteristics. Also called character (or characteristics) of the

bottom, or quality of the bottom. (IHO Dictionary, S-32, 5th Edition, 515).

Attribute Bindings:

acronym	usage	constraints
NATQUA	С	value list = "1,2,3,4"
NATSUR	С	value list = "1,2,3,4,5,6,7,8,9,18"
SCAMIN	М	min = "1"
SORDAT	С	format = "ccyymmdd"
SORIND	С	format = "cc,cc,ccccc,c"
OBJNAM	0	
NOBJNM	0	
INFORM	Ο	
NINFOM	0	
TXTDSC	Ο	
NTXTDS	0	
PICREP	0	

Feature	Shoreline construction		
Acronym:	SLCONS	Code:	122
Type:	G		
Primitive:	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"
CONDTN	С	value list = "1,2,3,5"
OBJNAM	С	
NOBJNM	0	
INFORM	0	
NINFOM	0	
SCAMIN	М	min = "1"
PICREP	0	
TXTDSC	0	
DATSTA	0	format = "ccyymmdd"
DATEND	0	format = "ccyymmdd"
SORDAT	С	format = "ccyymmdd"
SORIND	С	format = "cc,cc,ccccc,c"
unlocd	С	
locmrn	С	
NTXTDS	0	
HORACC	0	unit = "m" decimal digits = "2"

ooron\/m	110000	constraints
acronvm	usade	CONSTIAINS

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

CATTEV O value list = "4,5,6"

Feature	Silo/tank		
Acronym:	SILTNK	Code:	125
Туре:	G		
Primitive:	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"
CONDTN	0	value list = "1,2,3,5"
OBJNAM	0	
NOBJNM	0	
INFORM	0	
NINFOM	0	
SCAMIN	M	min = "1"
PICREP	0	
TXTDSC	0	
SORDAT	С	format = "ccyymmdd"
SORIND	С	format = "cc,cc,cccc,c"
NTXTDS	0	

Feature	Slope topline		
Acronym:	SLOTOP	Code:	126
Туре:	G		
Primitive:	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:

acronym	usage	constraints
CATSLO	М	value list = "1,2,3,6"
NATSUR	0	value list = "1,2,3,4,5,6,7,8,9,11,14,17,18"
CONDTN	С	value list = "1,2,3,5"
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"
HORACC	0	unit = "m" decimal digits = "2"
VERACC	0	unit = "m" decimal digits = "2"
CATTEV	0	value list = "4,5,6"
NTXTDS	0	

Feature	Sloping ground		
Acronym:	SLOGRD	Code:	127
Type:	G		
Primitive:	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	M	value list = "1,2,3,6"
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	M	min = "1"
PICREP	0	
TXTDSC	0	
SORDAT	С	format = "ccyymmdd"
SORIND	С	format = "cc,cc,cccc,c"
NTXTDS	0	

Feature	Small craft facility		
Acronym:	SMCFAC	Code:	128
Type:	G		
Primitive:	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	М	value list = "1-33"
CONDTN	0	value list = "1,2,3,5"
OBJNAM	0	
NOBJNM	0	
INFORM	0	
NINFOM	0	
SCAMIN	М	min = "1"
PICREP	0	
TXTDSC	0	
PERSTA	0	format = "ccyymmdd"
PEREND	0	format = "ccyymmdd"
SORDAT	С	format = "ccyymmdd"
SORIND	С	format = "cc,cc,ccccc,c"
NTXTDS	0	
STATUS	0	value list = "5"

Feature	Sounding		
Acronym:	SOUNDG	Code:	129
Туре:	G		
Primitive:	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"
SORDAT	С	format = "ccyymmdd"
SORIND	С	format = "cc,cc,cccc,c"
OBJNAM	0	
NOBJNM	0	
INFORM	0	
NINFOM	0	
TXTDSC	0	
NTXTDS	0	
PICREP	0	
TECSOU	0	value list = "1,2,3,4,5,6,8,9,10,11,12,13,15"
SOUACC	Ο	unit = "m" decimal digits = "2"

Feature	Survey reliability		
Acronym:	M_SREL	Code:	310
Type:	M		
Primitive:	Α		

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	M	
SUREND	M	format = "ccyymmdd,ccyymm"
SURSTA	M	format = "ccyymmdd,ccyymm"
SURTYP	С	value list = "2"
SORDAT	С	format = "ccyymmdd"
SORIND	С	format = "cc,cc,ccccc,c"

Feature	Tidal stream - flood/ebb		
Acronym:	TS_FEB	Code:	160
Туре:	G		
Primitive:	P,A		

Data Dictionary (DD) Reference:

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

Definition: The tidal stream (or tidal current) is a horizontal movement of water associated with the rise and fall of the

tide caused by tide-producing forces. (Adapted from IHO Dictionary, S-32, 5th Edition)

Attribute Bindings:

acronym	usage	constraints
CAT_TS	M	value list = "1,2,3"
CURVEL	0	unit = "knot (kt)" decimal digits = "1"
ORIENT	0	unit = "deg" decimal digits = "2"
SCAMIN	M	min = "1"
SORDAT	С	format = "ccyymmdd"
SORIND	С	format = "cc,cc,ccccc,c"
DATSTA	0	format = "ccyymmdd"
DATEND	0	format = "ccyymmdd"
PERSTA	0	format = "ccyymmdd"
PEREND	0	format = "ccyymmdd"
OBJNAM	0	
NOBJNM	0	
TXTDSC	0	
NTXTDS	0	
PICREP	0	

Feature	Tideway		
Acronym:	TIDEWY	Code:	143
Туре:	G		
Primitive:	L,A		

Data Dictionary (DD) Reference:

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

Definition: A natural course in intertidal areas where water flows during the ebb or flow. A channel through which a

tidal current runs. (IHO Dictionary, S-32, 5th Edition, 5502)

Attribute Bindings:

acronym	usage	constraints
PICREP	0	
OBJNAM	0	
NOBJNM	0	
SCAMIN	M	min = "1"
SORDAT	С	format = "ccyymmdd"
SORIND	С	format = "cc,cc,cccc,c"
INFORM	0	
NINFOM	0	
TXTDSC	0	
NTXTDS	0	

Feature	Topmark		
Acronym:	TOPMAR	Code:	144
Type:	G		
Primitive:	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 = "1-33"
CONDTN	С	value list = "1,2,3,5"
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"
SORIND	С	format = "cc,cc,ccccc,c"
NTXTDS	0	
STATUS	0	value list = "5"

Feature	Traffic separation scheme boundary		
Acronym:	TSSBND	Code:	146
Type:	G		
Primitive:	L		

Data Dictionary (DD) Reference:

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

Definition: The outer limit of a traffic lane part or a traffic separation scheme roundabout. (S-57 Edition 3.1, Appendix

A - Chapter 1, Page 1.185, November 2000).

Attribute Bindings:

acronym	usage	constraints
CATTSS	0	value list = "1,2,"
OBJNAM	0	
NOBJNM	0	
INFORM	0	
NINFOM	0	
TXTDSC	0	
NTXTDS	0	
PICREP	0	
DATSTA	0	format = "ccyymmdd"
DATEND	0	format = "ccyymmdd"
SCAMIN	М	min = "1"
SORDAT	С	format = "ccyymmdd"
SORIND	С	format = "cc,cc,cccc,c"
STATUS	0	value list = "1,2,3,4,6,7,8,9,11,12,13,14,15,16,17,18"

Feature	Traffic separation scheme crossing		
Acronym:	TSSCRS	Code:	147
Type:	G		
Primitive:	A		

Data Dictionary (DD) Reference:

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

Definition: A defined area where traffic lanes cross. (S- 57 Edition 3.1, Appendix A – Chapter 1, Page 1.186,

November 2000).

Attribute Bindings:

acronym	usage	constraints
CATTSS	0	value list = "1,2"
RESTRN	С	value list = "1,2,3,4,5,6,7,8,9,10,11,12,13,16,17,18,19,20,21,22,23,24,25,27"
OBJNAM	0	
NOBJNM	0	
INFORM	0	
NINFOM	0	
TXTDSC	0	
NTXTDS	0	
PICREP	0	
STATUS	С	value list = "1,3,6,9"
SCAMIN	М	min = "1"
DATSTA	0	format = "ccyymmdd"
DATEND	0	format = "ccyymmdd"
SORDAT	0	format = "ccyymmdd"
SORIND	0	format = "cc,cc,cccc,c"

Feature	Traffic separation scheme lane part		
Acronym:	TSSLPT	Code:	148
Туре:	G		
Primitive:	A		

Data Dictionary (DD) Reference:

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

Definition: A traffic separation scheme lane part is an area of a traffic lane in which the direction of flow of traffic is

generally along one bearing. (Adapted from S-57 Edition 3.1, Appendix A – Chapter 1, Page 1.187,

November 2000).

Attribute Bindings:

acronym	usage	constraints
CATTSS	0	value list = "1,2"
ORIENT	С	unit = "deg" decimal digits = "2"
RESTRN	С	value list = "1,2,3,4,5,6,7,8,9,10,11,12,13,16,17,18,19,20,21,22,23,24,25,27"
OBJNAM	0	
NOBJNM	0	
INFORM	0	
NINFOM	0	
TXTDSC	0	
NTXTDS	0	
PICREP	0	
DATSTA	0	format = "ccyymmdd"
DATEND	0	format = "ccyymmdd"
SCAMIN	М	min = "1"
SORDAT	0	format = "ccyymmdd"
SORIND	0	format = "cc,cc,cccc,c"

Feature	Traffic separation zone		
Acronym:	TSEZNE	Code:	150
Type:	G		
Primitive:	Α		

Data Dictionary (DD) Reference:

DD Name: HYDRO Date accepted: 2010-08-11

Definition: A traffic separation scheme is a scheme which aims to reduce the risk of collision in congested and/or

converging areas by separating traffic moving in opposite, or nearly opposite, directions. (IHO Dictionary, S-32, 5th Edition, 5585). A traffic separation zone is a zone separating the lanes in which ships are proceeding in opposite or nearly opposite directions; or separating traffic lanes designated for particular

classes of ships proceeding in the same direction (IMO Ships Routeing, 6th Edition).

Attribute Bindings:

acronym	usage	constraints
CATTSS	М	value list = "1,2"
STATUS	С	value list = "3,9"
INFORM	0	
NINFOM	0	
SCAMIN	M	min = "1"
TXTDSC	С	
DATSTA	0	format = "ccyymmdd"
DATEND	0	format = "ccyymmdd"
SORDAT	С	format = "ccyymmdd"
SORIND	С	format = "cc,cc,cccc,c"
OBJNAM	0	
NOBJNM	0	
PICREP	0	
NTXTDS	0	

Feature	Tunnel		
Acronym:	TUNNEL	Code:	151
Туре:	G		
Primitive:	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	Ο	unit = "m" decimal digits = "1"
HORCLR	С	unit = "m" decimal digits = "2"
VERCLR	С	unit = "m" decimal digits = "2"
CONDTN	Ο	value list = "1,2,3,5"
OBJNAM	0	
NOBJNM	0	
INFORM	0	
NINFOM	Ο	
SCAMIN	M	min = "1"
PICREP	Ο	
TXTDSC	0	
PEREND	Ο	
SORDAT	С	format = "ccyymmdd"
SORIND	С	format = "cc,cc,ccccc,c"
vcrlev	Ο	
vcrval	0	unit = "m" decimal digits = "2"
locmrn	С	
NTXTDS	0	
unlocd	0	

acronym	usage	constraints
HORACC	0	unit = "m" decimal digits = "2"
VERACC	0	unit = "m" decimal digits = "2"
CATTEV	0	value list = "4,5,6"

Feature	Two-way route part		
Acronym:	TWRTPT	Code:	152
Type:	G		
Primitive:	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	Ο	
NOBJNM	Ο	
INFORM	Ο	
NINFOM	Ο	
SCAMIN	М	min = "1"
PICREP	Ο	
TXTDSC	Ο	
DATSTA	Ο	format = "ccyymmdd"
DATEND	Ο	format = "ccyymmdd"
SORDAT	С	format = "ccyymmdd"
SORIND	С	format = "cc,cc,ccccc,c"
NTXTDS	0	
STATUS	Ο	value list = "1,3,6,9"

Feature	Underwater/awash rock		
Acronym:	UWTROC	Code:	153
Type:	G		
Primitive:	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	M	unit = "m" decimal digits = "2"
WATLEV	M	value list = "1,2,3,4,5"
NATSUR	0	value list = "5,9,11,14,18"
QUASOU	Ο	value list = "1,2,8,10,11"
OBJNAM	Ο	
NOBJNM	0	
INFORM	Ο	
NINFOM	Ο	
SCAMIN	M	min = "1"
PICREP	Ο	
TXTDSC	Ο	
SORDAT	С	format = "ccyymmdd"
SORIND	С	format = "cc,cc,ccccc,c"
NTXTDS	Ο	
EXPSOU	С	value list = "1,2,3"
HORACC	Ο	unit = "m" decimal digits = "2"
VERACC	0	unit = "m" decimal digits = "2"
CATTEV	0	value list = "4,5,6"

Feature	Unsurveyed area		
Acronym:	UNSARE	Code:	154
Type:	G		
Primitive:	Α		

Data Dictionary (DD) Reference:

DD Name: HYDRO Date accepted: 2010-07-29

Definition: An area for which no bathymetric survey information is available.

Attribute Bindings:

acronym	usage	constraints
QUASOU	С	value list = "2,8"
SORDAT	С	format = "ccyymmdd"
SORIND	С	format = "cc,cc,ccccc,c"
OBJNAM	0	
NOBJNM	0	
INFORM	0	
NINFOM	0	
NTXTDS	0	
TXTDSC	0	
PICREP	0	

Feature	Vegetation		
Acronym:	VEGATN	Code:	155
Type:	G		
Primitive:	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	М	value list = "6,11,13"
CONVIS	Ο	value list = "1,2"
OBJNAM	Ο	
NOBJNM	Ο	
INFORM	0	
NINFOM	Ο	
SCAMIN	M	min = "1"
PICREP	Ο	
TXTDSC	0	
SORDAT	С	format = "ccyymmdd"
SORIND	С	format = "cc,cc,ccccc,c"
NTXTDS	0	

Feature	Water turbulence		
Acronym:	WATTUR	Code:	156
Туре:	G		
Primitive:	P,A		

Data Dictionary (DD) Reference:

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

Definition: The disturbance of water caused by the interaction of any combination of waves, currents, tidal streams,

wind, shoal patches and obstructions.

Attribute Bindings:

acronym	usage	constraints
CATWAT	M	value list = "6"
OBJNAM	0	
NOBJNM	0	
INFORM	0	
NINFOM	0	
TXTDSC	0	
NTXTDS	0	
PICREP	0	
SCAMIN	М	min = "1"
SORDAT	С	format = "ccyymmdd"
SORIND	С	format = "cc,cc,ccccc,c"

Feature	Weed/Kelp		
Acronym:	WEDKLP	Code:	158
Type:	G		
Primitive:	P,A		

Data Dictionary (DD) Reference:

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

Definition: Seaweed is the general name for marine plants of the Algae class which grow in long narrow ribbons.

(International Maritime Dictionary, 2nd Ed.)

Kelp is one of an order (laminariales) of usually large, blade-shaped or vine-like brown algae. (IHO

Dictionary, S-32, 5th Edition, 2611)

Attribute Bindings:

acronym	usage	constraints
CATWED	М	value list = "1,2,3,4"
OBJNAM	0	
NOBJNM	0	
INFORM	0	
NINFOM	0	
SCAMIN	М	min = "1"
SORDAT	С	format = "ccyymmdd"
SORIND	С	format = "cc,cc,cccc,c"
TXTDSC	0	
NTXTDS	0	
PICREP	0	

Feature	Wreck		
Acronym:	WRECKS	Code:	159
Type:	G		
Primitive:	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" 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 = "1,2,3,4,5,6,8,9,10,11,12,13,15"
STATUS	0	value list = "12,16,17,18"
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"
NTXTDS	0	
EXPSOU	С	value list = "1,2,3"
HORACC	0	unit = "m" decimal digits = "2"
VERACC	0	unit = "m" decimal digits = "2"

acronym usage constraints

CATTEV O value list = "4,5,6"

Feature	Anchor berth		
Acronym:	achbrt	Code:	17000
Type:	G		
Primitive:	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	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 = "1,2,7,8,13,14,27,28,29,30,31,32,33,34,35,36,38"
STATUS	0	value list = "2,3,4,5,8,9,12,14,16,17"
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"
PEREND	0	format = "ccyymmdd"
SORDAT	С	format = "ccyymmdd"
SORIND	С	format = "cc,cc,ccccc,c"
NTXTDS	0	

acronym usage constraints

locmrn C

Feature	Anchorage area		
Acronym:	achare	Code:	17001
Type:	G		
Primitive:	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 = "1,2,7,8,13,14,27,28,29,30,31,32,33,34,35,36,38"
STATUS	0	value list = "2,3,4,5,8,9,12,14,16,17"
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"
PEREND	0	format = "ccyymmdd"
SORDAT	С	format = "ccyymmdd"
SORIND	С	format = "cc,cc,ccccc,c"
NTXTDS	0	

acronym usage constraints

locmrn C

Feature	Beacon, lateral				
Acronym:	bcnlat	Code: 17028			
Type:	G				
Primitive:	Р				

Data Dictionary (DD) Reference:

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

Definition: A beacon, is a prominent specially constructed object forming a conspicuous mark as a fixed aid to

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

Edition)

Attribute Bindings:

acronym	usage	constraints
BCNSHP	M	value list = "1,5"
catlam	M	value list = "1-27"
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"
dirimp	С	value list = "1,2,3,4"
CONDTN	0	value list = "1,2,3,5"
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,cccc,c"
NTXTDS	0	
typatn	0	value list = "1,2,3"
mmsico	0	format = "xxxxxxxxxx"
STATUS	0	value list = "5"

Feature	Berth		
Acronym:	berths	Code:	17010
Туре:	G		
Primitive:	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 = "1,2,3,4,5,6,7,8,9,10"
clsdng	0	value list = "1,2,3,4,5"
DRVAL1	0	unit = "m" decimal digits = "2"
QUASOU	С	value list = "1,2,8,10,11"
SOUACC	С	unit = "m" decimal digits = "2"
STATUS	0	value list = "2,3,4,5,8,9,12,14,16,17"
trshgd	0	value list = "1,2,3,4,5,6,7,8,9,10"
unlocd	С	
verdat	С	value list = "12,23,24,30,31,32,33,34,35,36,37,38,39,40,41,42,43,45"
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"
NTXTDS	0	
locmrn	С	

Feature	Bridge		
Acronym:	bridge	Code:	17011
Type:	G		
Primitive:	A		

Data Dictionary (DD) Reference:

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

Definition: A structure erected over a depression or an obstacle such as a body of water, railroad, etc. to provide a

roadway for vehicles, pedestrians or to carry utility services. (IHO Dictionary, S-32, 5th Edition, 544)

Attribute Bindings:

acronym	usage	constraints
CATBRG	М	value list = "1,3,4,5,7,9,10,11,12,13"
HORCLR	0	unit = "m" decimal digits = "2"
VERCCL	С	unit = "m" decimal digits = "2"
VERCLR	С	unit = "m" decimal digits = "2"
VERCOP	С	unit = "m" decimal digits = "2"
hunits	С	value list = "1,2,3,4,5,6"
unlocd	С	
verdat	С	value list = "12,23,24,30,31,32,33,34,35,36,37,38,39,40,41,42,43,45"
wtwdis	С	decimal digits = "3"
CONDTN	С	value list = "1,2,3,5"
OBJNAM	0	
NOBJNM	0	
INFORM	С	
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"
NTXTDS	Ο	
vcrlev	0	
vcrval	0	unit = "m" decimal digits = "2"
elevwl	0	unit = "m" decimal digits = "2"
reflev	0	value list = "1,2,3,4,5,6,7,8,9,10"
locmrn	С	
refgag	С	
HORACC	Ο	unit = "m" decimal digits = "2"
VERACC	0	unit = "m" decimal digits = "2"
CATTEV	0	value list = "4,5,6"
STATUS	0	value list = "5"

Feature	Bridge Arch Aggregation	
Acronym:	c_brga	Code: 18003
Type:	0	
Primitive:	N	

Data Dictionary (DD) Reference:

DD Name: IENC Date accepted: 2012-08-03

Definition: A collection of the bridge arch elements comprising an entire bridge arch.

Attribute Bindings:

acronym	usage	constraints
OBJNAM	0	
NOBJNM	0	
INFORM	0	
NINFOM	0	
PICREP	0	
TXTDSC	0	
NTXTDS	0	
SORDAT	С	format = "ccyymmdd"
SORIND	С	format = "cc,cc,ccccc,c"

Feature	Bunker station		
Acronym:	bunsta	Code:	17054
Туре:	G		
Primitive:	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 or to obtain electrical power supply.

Attribute Bindings:

acronym	usage	constraints
bunves	М	value list = "1,2"
catbun	0	value list = "1,2,3,4,5,6,7,8"
unlocd	С	
CONDTN	0	value list = "1,2,3,5"
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"
NTXTDS	0	
locmrn	С	
catvol	С	value list = "1,2"

acronym	usage	constraints
catfrq	С	value list = "1,2"
amoamp	С	
allcon	0	
catplg	0	
shrnum	0	
HORACC	0	unit = "m" decimal digits = "1"
VERACC	0	unit = "m" decimal digits = "1"
CATTEV	0	value list = "4,5,6"
STATUS	0	value list = "5"

Feature	Buoy, lateral		
Acronym:	boylat	Code:	17029
Type:	G		
Primitive:	P		

Data Dictionary (DD) Reference:

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

Definition: A buoy is a floating object moored to the bottom in a particular place, as an aid to navigation or for other

specific purposes. (IHO Dictionary, S-32, 5th Edition, 565). A lateral buoy is used to indicate the right-hand

or left-hand side of a channel limit in the waterway.

Attribute Bindings:

acronym	usage	constraints
BOYSHP	М	value list = "1,2,3,4,5,6,8"
catlam	М	value list = "1-27"
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 = "1,2,9,10,11,12,13,15"
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"

acronym	usage	constraints
SORIND	С	format = "cc,cc,cccc,c"
NTXTDS	0	
typatn	0	value list = "1,2,3"
mmsico	0	format = "xxxxxxxxxx"
STATUS	0	value list = "5"

Feature	Cable, overhead		
Acronym:	cblohd	Code:	17012
Type:	G		
Primitive:	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" decimal digits = "1"
hunits	0	value list = "1,2,3,4,5,6"
verdat	0	value list = "12,23,24,30,31,32,33,34,35,36,37,38,39,40,41,42,43,45"
wtwdis	0	decimal digits = "3"
unlocd	С	
CONDTN	0	value list = "1,2,3,5"
OBJNAM	0	
NOBJNM	0	
INFORM	0	
NINFOM	0	
SCAMIN	М	min = "1"
PICREP	0	
TXTDSC	0	
DATSTA	0	format = "ccyymmdd"
DATEND	0	format = "ccyymmdd"
SORDAT	С	format = "ccyymmdd"
SORIND	С	format = "cc,cc,cccc,c"

acronym	usage	constraints
NTXTDS	0	
vcrlev	0	
vcrval	0	unit = "m" decimal digits = "2"
locmrn	С	
refgag	С	
HORACC	0	unit = "m" decimal digits = "2"
VERACC	0	unit = "m" decimal digits = "2"
CATTEV	0	value list = "4,5,6"
STATUS	0	value list = "5"

Feature	Checkpoint	
Acronym:	chkpnt	Code: 17027
Туре:	G	
Primitive:	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,ccccc,c"
NTXTDS	0	
locmrn	С	
STATUS	0	value list = "5"

Feature	Communication area		
Acronym:	comare	Code:	17055
Type:	G		
Primitive:	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	Ο	value list = "1,2,3,4,5,6,7,8,9"
COMCHA	M	format = "[[XXXX];[XXXX];]"
STATUS	0	value list = "2,3,4,5,8,9,12,14,16,17
OBJNAM	0	
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,ccccc,c"
NTXTDS	Ο	

Feature	Conveyor	
Acronym:	convyr	Code: 17034
Type:	G	
Primitive:	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	М	value list = "1,2"
PRODCT	0	value list = "1,2,3,4,5,6,7,8,14,15,17,21,22"
VERCLR	0	unit = "m" decimal digits = "2"
verdat	0	value list = "12,23,24,30,31,32,33,34,35,36,37,38,39,40,41,42,43,45"
CONDTN	0	value list = "1,2,3,5"
OBJNAM	0	
NOBJNM	0	
INFORM	0	
NINFOM	0	
SCAMIN	М	min = "1"
PICREP	0	
TXTDSC	0	
DATSTA	0	format = "ccyymmdd"
DATEND	0	format = "ccyymmdd"
SORDAT	С	format = "ccyymmdd"
SORIND	С	format = "cc,cc,cccc,c"
NTXTDS	0	
vcrlev	0	
vcrval	0	unit = "m" decimal digits = "2"

acronym	usage	constraints
HORACC	0	unit = "m" decimal digits = "2"
VERACC	0	unit = "m" decimal digits = "2"
CATTEV	0	value list = "4,5,6"

Feature	Crane	
Acronym:	cranes	Code: 17030
Type:	G	
Primitive:	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" decimal digits = "2"
verdat	0	value list = "12,23,24,30,31,32,33,34,35,36,37,38,39,40,41,42,43,45"
CONDTN	0	value list = "1,2,3,5"
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"
NTXTDS	0	
vcrlev	0	
vcrval	0	unit = "m" decimal digits = "2"
locmrn	С	
unlocd	С	
HORACC	0	unit = "m" decimal digits = "2"

acronvm	usage	constraints
acioniviii	usauc	CONSTIGNICS

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

CATTEV O value list = "4,5,6"

Feature	Current, non-gravitational		
Acronym:	curent	Code:	17019
Type:	G		
Primitive:	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:

acro	nym	usage	constraints
curvl	hw	С	unit = "km/h" decimal digits = "1"
curvl	lw	С	unit = "km/h" decimal digits = "1"
curvi	mw	С	unit = "km/h" decimal digits = "1"
curvo	ow	С	unit = "km/h" decimal digits = "1"
dirim	пр	С	value list = "1,2,3,4"
higna	am	С	
lown	am	С	
mea	nam	С	
othna	am	С	
ORIE	ENT	С	unit = "deg" decimal digits = "2"
OBJI	NAM	0	
NOB	BJNM	0	
INFO	ORM	0	
NINF	FOM	0	
SCA	MIN	М	min = "1"
PICF	REP	0	
TXTI	DSC	0	
DAT	STA	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"
NTXTDS	0	
STATUS	0	value list = "5"

Feature	Daymark	
Acronym:	daymar	Code: 17035
Туре:	G	
Primitive:	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:

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"
ORIENT	С	unit = "deg" decimal digits = "2"
dirimp	С	value list = "1,2,3,4"
CONDTN	0	value list = "1,2,3,5"
OBJNAM	0	
NOBJNM	0	
INFORM	0	
NINFOM	0	
SCAMIN	M	min = "1"
PICREP	0	

acronym	usage	constraints
TXTDSC	0	
SORDAT	С	format = "ccyymmdd"
SORIND	С	format = "cc,cc,ccccc,c"
NTXTDS	0	
STATUS	0	value list = "5"

Feature	Depth area		
Acronym:	depare	Code:	17003
Type:	G		
Primitive:	A		

Data Dictionary (DD) Reference:

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

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

Attribute Bindings:

acronym	usage	constraints
DRVAL1	M	unit = "m" decimal digits = "2"
DRVAL2	M	unit = "m" decimal digits = "2"
eleva1	С	unit = "m" decimal digits = "2"
eleva2	С	unit = "m" decimal digits = "2"
QUASOU	С	value list = "1,2,8,10,11"
hunits	M	value list = "1,2,3,4,5,6"
wtwdis	M	decimal digits = "3"
SORDAT	С	format = "ccyymmdd"
SORIND	С	format = "cc,cc,ccccc,c"
HORACC	Ο	unit = "m" decimal digits = "2"
VERACC	Ο	unit = "m" decimal digits = "2"
CATTEV	0	value list = "4,5,6"

Feature	Distance mark		
Acronym:	dismar	Code:	17004
Type:	G		
Primitive:	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 a distinct location without

special installation, used to serve as a reference along the waterway. (Adapted from S-57 Standard). Due to the natural or historic changes in the waterway the distance can deviate from the real distance to the

origin.

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	М	min = "1"
PICREP	0	
TXTDSC	0	
DATSTA	0	format = "ccyymmdd"
DATEND	0	format = "ccyymmdd"
SORDAT	С	format = "ccyymmdd"
SORIND	С	format = "cc,cc,cccc,c"
NTXTDS	0	
locmrn	С	
STATUS	0	value list = "5"

Feature	Exceptional navigation structure		
Acronym:	excnst	Code: 17070	
Type:	G		
Primitive:	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	М	unit = "m" decimal digits = "2"
unlocd	С	
verdat	С	value list = "12,23,24,30,31,32,33,34,35,36,37,38,39,40,41,42,43,45"
hunits	М	value list = "1,2,3,4,5,6"
wtwdis	М	decimal digits = "3"
CONDTN	0	value list = "1,2,3,5"
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"
NTXTDS	0	
sdrlev	0	

acronym	usage	constraints
sdrval	0	unit = "m" decimal digits = "2"
locmrn	С	
OBJNAM	0	
NOBJNM	0	
horclw	С	unit = "m" decimal digits = "2"
HORACC	0	unit = "m" decimal digits = "2"
VERACC	0	unit = "m" decimal digits = "2"
CATTEV	0	value list = "4,5,6"
STATUS	0	value list = "5"

Feature	Ferry route	
Acronym:	feryrt	Code: 17013
Туре:	G	
Primitive:	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 = "2,3,4,5,8,9,12,14,16,17"
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,ccccc,c"
locmrn	С	
unlocd	С	

Feature	Floating dock			
Acronym:	flodoc	Code:	17025	
Type:	G			
Primitive:	A			

Data Dictionary (DD) Reference:

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

Definition: A form of dry dock consisting of a floating structure of one or more sections which can be partly submerged

by controlled flooding to receive a vessel, then raised by pumping out the water so that the vessel's bottom

can be exposed. (IHO Dictionary, S-32, 5th Edition, 1427)

Attribute Bindings:

acronym	usage	constraints
DRVAL1	0	unit = "m" decimal digits = "2"
HORCLR	0	unit = "m" decimal digits = "2"
HORLEN	0	unit = "m" decimal digits = "2"
horcll	С	unit = "m" decimal digits = "2"
horclw	С	unit = "m" decimal digits = "2"
HORWID	0	unit = "m" decimal digits = "2"
verdat	0	value list = "12,23,24,30,31,32,33,34,35,36,37,38,39,40,41,42,43,45"
CONDTN	0	value list = "1,2,3,5"
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"

acronym	usage	constraints
PEREND	0	format = "ccyymmdd"
SORDAT	С	format = "ccyymmdd"
SORIND	С	format = "cc,cc,ccccc,c"
NTXTDS	0	
sdrlev	0	
sdrval	0	unit = "m" decimal digits = "2"
vcrlev	0	
vcrval	0	unit = "m" decimal digits = "2"
HORACC	0	unit = "m" decimal digits = "2"
VERACC	0	unit = "m" decimal digits = "2"
CATTEV	0	value list = "4,5,6"
STATUS	0	value list = "1,4,6,7,8,12"

Feature	Gate		
Acronym:	gatcon	Code:	17031
Туре:	G		
Primitive:	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" decimal digits = "2"
VERCLR	0	unit = "m" decimal digits = "2"
hunits	С	value list = "1,2,3,4,5,6"
wtwdis	0	decimal digits = "3"
verdat	0	value list = "12,23,24,30,31,32,33,34,35,36,37,38,39,40,41,42,43,45"
CONDTN	0	value list = "1,2,3,5"
OBJNAM	0	
NOBJNM	0	
unlocd	С	
INFORM	0	
NINFOM	0	
SCAMIN	М	min = "1"
PICREP	0	
TXTDSC	0	
SORDAT	С	format = "ccyymmdd"
SORIND	С	format = "cc,cc,ccccc,c"
NTXTDS	0	
vcrlev	0	

acronym	usage	constraints
vcrval	0	unit = "m" decimal digits = "2"
locmrn	С	
HORACC	0	unit = "m" decimal digits = "2"
VERACC	0	unit = "m" decimal digits = "2"
CATTEV	0	value list = "4,5,6"

Feature	Harbour area (administrative)		
Acronym:	hrbare	Code:	17014
Type:	G		
Primitive:	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 formation, 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	
CONDTN	С	value list = "1,2,3,5"
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"
NTXTDS	0	
locmrn	С	

acronym usage constraints

STATUS O value list = "5"

Feature	Harbour basin		
Acronym:	hrbbsn	Code:	17056
Туре:	G		
Primitive:	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. Edition).

Attribute Bindings:

acronym	usage	constraints
HORLEN	0	unit = "m" decimal digits = "2"
HORWID	0	unit = "m" decimal digits = "2"
unlocd	С	
CONDTN	0	value list = "1,2,3,5"
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"
NTXTDS	0	
locmrn	С	

acronym usage constraints

STATUS O value list = "5"

Feature	Harbour facility		
Acronym:	hrbfac	Code:	17015
Type:	G		
Primitive:	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"
CONDTN	0	value list = "1,2,3,5"
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"
NTXTDS	0	
unlocd	С	
STATUS	Ο	value list = "5"

Feature	Hulk	
Acronym:	hulkes	Code: 17020
Type:	G	
Primitive:	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	
CONDTN	0	value list = "1,2,3,5"
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"
NTXTDS	0	
locmrn	С	
HORACC	0	unit = "m" decimal digits = "2"
VERACC	0	unit = "m" decimal digits = "2"

acronvm	usage	constraints
acioniviii	usauc	CONSTIGNICS

CATTEV O value list = "4,5,6"

STATUS O value list = "5"

Feature	Lock basin		
Acronym:	lokbsn	Code:	17016
Type:	G		
Primitive:	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	С	unit = "m" decimal digits = "2"
horclw	С	unit = "m" decimal digits = "2"
HORLEN	0	unit = "m" decimal digits = "2"
HORWID	Ο	unit = "m" decimal digits = "2"
unlocd	С	
CONDTN	0	value list = "1,2,3,5"
OBJNAM	Ο	
NOBJNM	0	
INFORM	Ο	
NINFOM	0	
SCAMIN	М	min = "1"
PICREP	Ο	
TXTDSC	0	
DATSTA	0	format = "ccyymmdd"
DATEND	Ο	format = "ccyymmdd"
PERSTA	Ο	format = "ccyymmdd"
PEREND	0	format = "ccyymmdd"
SORDAT	С	format = "ccyymmdd"
SORIND	С	format = "cc,cc,ccccc,c"

acronym	usage	constraints
NTXTDS	0	
locmrn	С	
HORACC	0	unit = "m" decimal digits = "2"
VERACC	0	unit = "m" decimal digits = "2"
CATTEV	0	value list = "4,5,6"
STATUS	0	value list = "5"

Feature	Lock basin part		
Acronym:	Ikbspt	Code:	17058
Туре:	G		
Primitive:	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	С	unit = "m" decimal digits = "2"
horclw	С	unit = "m" decimal digits = "2"
HORLEN	Ο	unit = "m" decimal digits = "2"
HORWID	0	unit = "m" decimal digits = "2"
unlocd	С	
CONDTN	Ο	value list = "1,2,3,5"
OBJNAM	0	
NOBJNM	0	
INFORM	Ο	
NINFOM	Ο	
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"

acronym	usage	constraints
NTXTDS	0	
HORACC	0	unit = "m" decimal digits = "2"
VERACC	0	unit = "m" decimal digits = "2"
CATTEV	0	value list = "4,5,6"
STATUS	0	value list = "5"
locmrn	С	

Feature	Maximum permitted ship dimensions		
Acronym:	lg_sdm	Code:	18001
Type:	G		
Primitive:	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" decimal digits = "2"
lg_lgs	0	unit = "m" decimal digits = "2"
lg_drt	0	unit = "m" 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"
PERSTA	0	format = "ccyymmdd"
PEREND	0	format = "ccyymmdd"
SORDAT	С	format = "ccyymmdd"

acronym	usage	constraints
SORIND	С	format = "cc,cc,ccccc,c"
lg_pbr	0	

Feature	Maximum permitted vessel speed		
Acronym:	lg_vsp	Code:	18002
Туре:	G		
Primitive:	A		

Data Dictionary (DD) Reference:

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

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

vessel speed exists.

Attribute Bindings:

acronym	usage	constraints
lg_rel	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_wdu	0	value list = "1,2,3"
lg_spd	0	unit = "km/h" decimal digits = "2"
lg_spr	0	value list = "1,2,3"
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,cccc,c"
lg_pbr	0	

Feature	Navigational system of marks	
Acronym:	m_nsys	Code: 17018
Type:	M	
Primitive:	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 = "1,2,9,10,11,12,13,15"
SORDAT	С	format = "ccyymmdd"
SORIND	С	format = "cc,cc,cccc,c"
ORIENT	С	unit = "deg" decimal digits = "2"

Feature	Notice mark		
Acronym:	notmrk	Code:	17050
Type:	G		
Primitive:	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	М	value list = "1 - 123"
dirimp	0	value list = "1,2,3,4,5"
disipd	0	unit = "m" decimal digits = "1"
disipu	0	unit = "m" decimal digits = "1"
disbk1	0	unit = "m" decimal digits = "1"
disbk2	0	unit = "m" decimal digits = "1"
fnctnm	М	value list = "1,2,3,4,5"
marsys	0	value list = "1,2,9,10,11,12,13,15"
ORIENT	С	unit = "deg" decimal digits = "2"
STATUS	0	value list = "2,3,4,5,8,9,12,14,16,17"
bnkwtw	0	value list = "1,2"
CONDTN	0	value list = "1,2,3,5"
OBJNAM	0	
NOBJNM	0	
INFORM	0	
NINFOM	0	
SCAMIN	М	min = "1"
PICREP	0	

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

Feature	Pipeline, overhead		
Acronym:	pipohd	Code:	17024
Type:	G		
Primitive:	L		

Data Dictionary (DD) Reference:

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

Definition: A pipeline is a string of interconnected pipes used for the transport of matter, nowadays mainly oil or gas.

(IHO Dictionary, S-32, 5th Edition, 3857). An overhead pipeline is a pipeline supported by pylons and

passing over or nearby navigable waters.

Attribute Bindings:

acronym	usage	constraints
CATPIP	M	value list = "2,3,4,6"
PRODCT	M	value list = "1,2,3,4,5,6,7,8,14,15,17,21,22"
VERCLR	M	unit = "m" decimal digits = "2"
verdat	0	value list = "12,23,24,30,31,32,33,34,35,36,37,38,39,40,41,42,43,45"
hunits	0	value list = "1,2,3,4,5,6"
wtwdis	0	decimal digits = "3"
unlocd	С	
CONDTN	0	value list = "1,2,3,5"
OBJNAM	0	
NOBJNM	0	
INFORM	0	
NINFOM	0	
SCAMIN	M	min = "1"
PICREP	0	
TXTDSC	0	
DATSTA	0	format = "ccyymmdd"
DATEND	0	format = "ccyymmdd"
SORDAT	С	format = "ccyymmdd"

acronym	usage	constraints
SORIND	С	format = "cc,cc,ccccc,c"
NTXTDS	0	
vcrlev	0	
vcrval	0	unit = "m" decimal digits = "2"
locmrn	С	
refgag	С	
HORACC	0	unit = "m" decimal digits = "2"
VERACC	0	unit = "m" decimal digits = "2"
CATTEV	0	value list = "4,5,6"

Feature	Pontoon		
Acronym:	ponton	Code:	17021
Type:	G		
Primitive:	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	
CONDTN	0	value list = "1,2,3,5"
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"
NTXTDS	0	
locmrn	С	
HORACC	0	unit = "m" decimal digits = "2"
VERACC	0	unit = "m" decimal digits = "2"

acronvm	usage	constraints
acioniviii	usauc	CONSTIGNICS

CATTEV O value list = "4,5,6"

STATUS O value list = "5"

Feature	Port area		
Acronym:	prtare	Code:	17059
Type:	G		
Primitive:	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

passengers 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	
CONDTN	0	value list = "1,2,3,5"
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"
NTXTDS	0	
locmrn	С	
STATUS	0	value list = "5"

Feature	Radio calling-in point		
Acronym:	rdocal	Code: 17017	
Type:	G		
Primitive:	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	M	value list = "1,2,3,4,5,6,7,8"
COMCHA	M	format = "[[XXXX];[XXXX];]"
ORIENT	M	unit = "deg" decimal digits = "2
TRAFIC	M	value list = "1,2,3,4"
OBJNAM	0	
NOBJNM	0	
unlocd	С	
INFORM	0	
NINFOM	0	
SCAMIN	M	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"

acronym	usage	constraints
locmrn	С	
NTXTDS	0	
STATUS	0	value list = "5"

Feature	Refuse dump		
Acronym:	refdmp	Code: 17062	
Type:	G		
Primitive:	Р		

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	
CONDTN	0	value list = "1,2,3,5"
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"
locmrn	С	
NTXTDS	0	
STATUS	0	value list = "5"

Feature	Restricted area		
Acronym:	resare	Code:	17005
Туре:	G		
Primitive:	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 = "1,4,5,6,7,8,9,10,12,14,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33"
restrn	М	value list = "1,2,7,8,13,14,27,28,29,30,31,32,33,34,35,36,37,38,40,41"
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"
SORIND	С	format = "cc,cc,cccc,c"
NTXTDS	0	
STATUS	0	value list = "5"

Feature	Sensor		
Acronym:	sensor	Code:	18004
Type:	G		
Primitive:	P		

Data Dictionary (DD) Reference:

DD Name: IENC Date accepted: 2011-12-19

Definition: A device that responds to a physical stimulus (as heat, light, sound, pressure, magnetism or a particular

motion) and transmits a resulting impulse (as for measurement or operating a control).

Attribute Bindings:

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

Feature	Shoreline Construction		
Acronym:	slcons	Code:	17032
Туре:	G		
Primitive:	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 = "2,7,8,9,18,19,20"
NATCON	0	value list = "1,2,3,4,5,6,7,8,9"
watlev	С	value list = "1,2,3,4,8,9"
CONDTN	0	value list = "1,2,3,5"
OBJNAM	0	
NOBJNM	0	
INFORM	0	
NINFOM	0	
SCAMIN	М	min = "1"
PICREP	0	
TXTDSC	0	
DATSTA	0	format = "ccyymmdd"
DATEND	0	format = "ccyymmdd"
SORDAT	С	format = "ccyymmdd"
SORIND	С	format = "cc,cc,ccccc,c"
NTXTDS	0	
HORACC	0	unit = "m" decimal digits = "2"
VERACC	0	unit = "m" decimal digits = "2"
CATTEV	0	value list = "4,5,6"

Feature	Signal station, traffic	
Acronym:	sistat	Code: 17007
Type:	G	
Primitive:	Р	

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"
CONDTN	0	value list = "1,2,3,5"
OBJNAM	0	
NOBJNM	0	
unlocd	С	
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"
locmrn	С	
NTXTDS	0	

acronym usage constraints

STATUS O value list = "5"

Feature	Signal station, warning	
Acronym:	sistaw	Code: 17008
Туре:	G	
Primitive:	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"
CONDTN	0	value list = "1,2,3,5"
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"
NTXTDS	0	
STATUS	0	value list = "5"

Feature	Sounding datum	
Acronym:	m_sdat	Code: 17022
Type:	M	

Type: M
Primitive: A

Data Dictionary (DD) Reference:

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

Definition: An area of uniform sounding datum.

Attribute Bindings:

acronym	usage	constraints
verdat	M	value list = "12,23,24,30,31,32,33,34,35,36,37,38,39,40,41,42,43,45"
SORDAT	С	format = "ccyymmdd"
SORIND	С	format = "cc,cc,cccc,c"

Feature	Terminal	
Acronym:	termnl	Code: 17064
Type:	G	
Primitive:	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 transfer of cargo or

passengers 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	
CONDTN	0	value list = "1,2,3,5"
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"
NTXTDS	0	
STATUS	0	value list = "5"

acronym usage constraints

locmrn C

Feature	Time Schedule - in general	
Acronym:	tisdge	Code: 17068
Type:	0	
Primitive:	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,cccc,c"
STATUS	0	value list = "5"

Feature	Turning basin	
Acronym:	trnbsn	Code: 17065
Type:	G	
Primitive:	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" 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,ccccc,c"	
NTXTDS	0		
STATUS	0	value list = "5"	
locmrn	С		

Feature	e Underwater rock / awash rock			
Acronym:	uwtroc	Code: 17033		
Type:	G			
Primitive:	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" decimal digits = "2"
watlev	M	value list = "1,2,3,4,8,9"
NATSUR	Ο	value list = "5,9,11,14,18"
QUASOU	Ο	value list = "1,2,8,10,11"
OBJNAM	0	
NOBJNM	0	
INFORM	Ο	
NINFOM	0	
SCAMIN	M	min = "1"
PICREP	0	
TXTDSC	0	
SORDAT	С	format = "ccyymmdd"
SORIND	С	format = "cc,cc,ccccc,c"
NTXTDS	Ο	
EXPSOU	С	value list = "1,2,3"
HORACC	Ο	unit = "m" decimal digits = "2"
VERACC	Ο	unit = "m" decimal digits = "2"
CATTEV	Ο	value list = "4,5,6"

Feature	Vehicle transfer			
Acronym:	vehtrf	Code:	17069	
Type:	G			
Primitive:	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" decimal digits = "2"
unlocd	С	
verdat	0	value list = "12,23,24,30,31,32,33,34,35,36,37,38,39,40,41,42,43,45"
CONDTN	0	value list = "1,2,3,5"
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"
vcrlev	0	

acronym	usage	constraints
vcrval	0	unit = "m" decimal digits = "2"
NTXTDS	0	
STATUS	0	value list = "5"
locmrn	С	

Feature	Vertical datum

Acronym: m_vdat Code: 17023

Type: M Primitive: 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 = "12,23,24,30,31,32,33,34,35,36,37,38,39,40,41,42,43,45"
SORDAT	С	format = "ccyymmdd"
SORIND	С	format = "cc,cc,cccc,c"

Feature	Waterway area		
Acronym:	wtware	Code:	17066
Type:	G		
Primitive:	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 = "1,2,3,4,5,6,7,8,9,10,11,12"
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"
STATUS	0	value list = "5"
NTXTDS	0	
locmrn	С	

Feature	Waterway axis	
Acronym:	wtwaxs	Code: 17051
Type:	G	
Primitive:	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 waterway (Definition of waterway: The waterway covers the

entire area of a river or canal).

Attribute Bindings:

acronym	usage	constraints
catccl	0	value list = "1,2,3,4,5,6,7,8,9,10,11,12"
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"
STATUS	0	value list = "5"
NTXTDS	0	

Feature	Waterway gauge	
Acronym:	wtwgag	Code: 17067
Type:	G	
Primitive:	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" decimal digits = "1"
disipu	0	unit = "m" decimal digits = "1"
ELEVAT	0	unit = "m" decimal digits = "2"
higwat	0	unit = "m" decimal digits = "2"
hignam	0	
lowwat	0	unit = "m" decimal digits = "2"
lownam	0	
meawat	0	unit = "m" decimal digits = "2"
meanam	0	
othwat	0	unit = "m" decimal digits = "2"
othnam	0	
reflev	0	value list = "1,2,3,4,5,6,7,8,9,10"
sdrlev	0	
unlocd	С	
vcrlev	0	
verdat	0	value list = "12,23,24,31,32,33,34,35,36,37,38,39,40,41,42,43,45"
hunits	0	value list = "1,2,3,4,5,6"
wtwdis	0	decimal digits = "3"
CONDTN	Ο	value list = "1,2,3,5"

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"
STATUS	0	value list = "5"
sdrval	0	unit = "m" decimal digits = "2"
vcrval	0	unit = "m" decimal digits = "2"
NTXTDS	0	
locmrn	С	

Feature	Waterway profile		
Acronym:	wtwprf	Code:	17052
Туре:	G		
Primitive:	L		

Data Dictionary (DD) Reference:

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

Definition: A waterway profile is an imaginary (i.e., physically non-existent) line across the waterway.

Attribute Bindings:

acronym	usage	constraints
hunits	М	value list = "1,2,3,5,6"
wtwdis	М	decimal digits = "3"
HEIGHT	С	unit = "m" decimal digits = "2"
reflev	С	value list = "1,2,3,4,5,6,7,8,9,10"
verdat	С	value list = "12,23,24,30,31,32,33,34,35,36,37,38,39,40,41,42,43,45"
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"
STATUS	0	value list = "5"
sdrlev	0	

acronym	usage	constraints
sdrval	0	unit = "m" decimal digits = "2"
NTXTDS	0	
HORACC	0	unit = "m" decimal digits = "2"
VERACC	0	unit = "m" decimal digits = "2"
CATTEV	0	value list = "4,5,6"

Attribute Beacon shape

Code:

2

Use Type: F

Acronym:

Value Type: E

Data Dictionary (DD) Reference:

BCNSHP

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

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)

Value Data Dictionary (DD) Reference

DD Name: HYDRO Code: BCNSHP_6 Date accepted: 2000-11-01

Name: cairn

Definition: a mound of stones, usually conical or pyramidal, raised specifically for maritime navigation.

(adapted from IHO Dictionary, S-32, 5th Edition, 601).

7 DD Name: HYDRO Code: BCNSHP_7 Date accepted: 2000-11-01

Name: buoyant beacon

Definition: a tall spar-like beacon fitted with a permanently submerged buoyancy chamber, the lower end of the body is secured to seabed sinker either by a flexible joint or by a cable under tension. (IHO Specifications, M-4, 459.1)

Edition 2.6.0 IENC Feature Catalogue

Attribute Buoy shape

Code:

Use Type:

Acronym:

Value Type: Ε

Data Dictionary (DD) Reference:

BOYSHP

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 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.

DD Name: HYDRO 4 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.

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

> Name: spar (spindle)

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

Value Data Dictionary (DD) Reference

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

Name: barrel (tun)

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

the form of a barrel or cylinder floating horizontally.

7 DD Name: HYDRO Code: BOYSHP_7 Date accepted: 2000-11-01

Name: super-buoy

Definition: a very large buoy, generally more than 5m in diameter

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

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

Acronym: **CATAIR** Code:

Use Type: 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

> civil aeroplane airport Name:

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)

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

> Name: civil heliport

a landing place for helicopters, often the roof of a building. (The Macquarie Dictionary, 1988) Definition:

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

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)

7 DD Name: HYDRO Code: CATBRG_7 Date accepted: 2000-11-01

Name: draw bridge

Definition: a general name for bridges of which part or the entire span of the bridge may be raised or

Value Data Dictionary (DD) Reference

drawn aside to allow ships to pass through. IHO Dictionary, S-32, 5th Edition, 546)

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

Name: footbridge

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

Technical Terms, 3rd Edition, 1984)

11 DD Name: HYDRO Code: CATBRG_11 Date accepted: 2000-11-01

Name: aqueduct

Definition: a bridge supporting an artificially elevated channel, for the conveyance of water. (adapted from

The New Shorter English Dictionary, 1993)

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 Encyclopedia of

Science and Technology, 7th Edition, 1992)

DD Name: IENC Code: CATBRG_13 Date accepted: 2000-11-01

Name: bridge arch

Definition: an arched bridge with known clearances

Attribute	Category of built-up area		
Acronym:	CATBUA	Code:	10

Use Type: F

Value Type: E

Data Dictionary (DD) Reference:

Name:

city

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. DD Name: HYDRO Code: CATBUA 4 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

IENC_FC_26.DOCX 229

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

Attribute Category of cable

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.

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

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.

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)

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, 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)

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

Value Data Dictionary (DD) Reference

approximately 16 millimetres. (adapted from IHO Dictionary, S-32, 5th Edition, 4683)

6 DD Name: HYDRO 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

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.

1 DD Name: HYDRO Code: CATCON_1 Date accepted: 2000-11-01

Name: aerial cableway (telepheric)

Definition: a transportation system consisting of load cables strung between pylons on which carrier units (for exmple: cars or buckets intended to transport people, material, and/or equipment) are suspended.

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.

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)

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

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.

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

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 dumping ground

Acronym: CATDPG Code: 23

Use Type: F
Value Type: L

Data Dictionary (DD) Reference:

DD Name: HYDRO Date accepted: 2010-09-08

Definition:

Enumerations:

Value Data Dictionary (DD) Reference

2 DD Name: HYDRO Code: CATDPG 2 Date accepted: 2010-09-08

Name: chemical waste dumping ground

Definition: an area at sea where chemical waste is dumped.

4 DD Name: HYDRO Code: CATDPG_4 Date accepted: 2010-09-08

Name: explosives dumping ground

Definition: an area at sea where explosives are dumped.

5 DD Name: HYDRO Code: CATDPG_5 Date accepted: 2010-09-08

Name: spoil ground

Definition: an area at sea where dredged material is deposited. Also called dumping ground. (IHO

Dictionary, S-32, 5th Edition, 4930)

Attribute	Category of fence/wall
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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 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)

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 fishing facility
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Acronym: CATFIF Code: 26

Use Type: F
Value Type: L

Data Dictionary (DD) Reference:

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

Definition: Category of fishing facility

Enumerations:

Value Data Dictionary (DD) Reference DD Name: HYDRO 1 Code: CATFIF 1 Date accepted: 2000-11-01 Name: fishing stake Definition: a pole or stake placed in shallow water to outline a fishing ground or to catch fish 2 DD Name: HYDRO Code: CATFIF_2 Date accepted: 2000-11-01 Name: fish trap a structure (usually portable) for catching fish Definition: 3 DD Name: HYDRO Code: CATFIF_3 Date accepted: 2000-11-01 Name: fish weir Definition: a fence of stakes or stones set in a river or along the shore to trap fish

4 DD Name: HYDRO Code: CATFIF_4 Date accepted: 2000-11-01

Name: tunny net

Definition: a net built at sea for catching tunny.

Attribute	Category of fog signal					
Acronym:	CATFOG	Code:	27			
Use Type:	F					

Data Dictionary (DD) Reference:

Ε

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

Definition:

Value Type:

Enumerations:

Value	Data Dictionary (DD) Reference							
1	DD Name:	HYDRO explosive	Code:	CATFOG_1	Date accepted:	2000-11-01		
	Definition:	a signal prod	duced by	the firing of explosive	e charges. (Admira	alty List of Lights and Fog Signals)		
2	DD Name:		Code:	CATFOG_2	Date accepted:	2000-11-01		
	Name:	diaphone						
	Definition: concludes Signals)	•			•	erful low-pitched sound, which often t'. (Admiralty List of Lights and Fog		
3	DD Name:	HYDRO	Code:	CATFOG_3	Date accepted:	2000-11-01		
	Name:	siren						
	Definition: sound and		•	ssed air and exists in of Lights and Fog Sig	, ,,	which differ considerably in their		
4	DD Name:	HYDRO	Code:	CATFOG_4	Date accepted:	2000-11-01		
	Name:	nautophone						
	Definition:	a horn havir	ıg a diap	hragm oscillated by el	ectricity (IHO Dict	ionary, 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)							

Value Data Dictionary (DD) Reference

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 fortified structure		
Acronym:	CATFOR	Code:	28
Use Type:	F		

Data Dictionary (DD) Reference:

L

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

Definition: Category of fortified structure

Enumerations:

Value Type:

Value	Data Dictio	onary (DD) Re	ference				
1	DD Name:	HYDRO	Code:	CATFOR_1	Date accepted:	2000-11-01	
	Name:	castle					
	Definition:	a large fortified building or structure					
2	DD Name:	HYDRO	Code:	CATFOR_2	Date accepted:	2000-11-01	
	Name:	fort					
	Definition:	a fortified er	iclosure,	building, or position a	ble to be defende	d against an enemy	
3	DD Name:	HYDRO	Code:	CATFOR_3	Date accepted:	2000-11-01	
	Name:	battery					
	Definition:	a fortified structure on which artillery is mounted					
4	DD Name:	HYDRO	Code:	CATFOR_4	Date accepted:	2000-11-01	
	Name:	blockhouse					
	Definition: defensive (
5	DD Name:	HYDRO	Code:	CATFOR_5	Date accepted:	2000-11-01	
	Name:	martello tow	er				
	Definition:	a round fort for coastal defence					
6	DD Name:	HYDRO	Code:	CATFOR_6	Date accepted:	2000-11-01	
	Name:	redoubt					

Value Data Dictionary (DD) Reference

Definition: an outwork or fieldwork usually square or polygonal and without flanking defences.

Attribute Category of gate

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: an opening gate used to control flood water.

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

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

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.

Edition 2.6.0 IENC Feature Catalogue

Attribute	Category of land region
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Acronym: **CATLND** Code: 34

Use Type: Value Type: L

Data Dictionary (DD) Reference:

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

Definition: Category of land region

Enumerations:

Value Data Dictionary (DD) Reference

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

> Name: marsh

Definition: an area of wet, often spongy ground that is subject to frequent flooding or tidal inundations, but not considered to be continually under water. It is characterized by the growth of non woody plants and by the lack of trees

9 DD Name: HYDRO Code: CATLND_9 Date accepted: 2000-11-01

> Name: agricultural land

Definition: areas used for cultivation of the soil, the breeding of livestock etc. and general farming.

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

> Name: parkland

Definition: a piece of ground kept for ornament and/or recreation or maintained in its natural state as a

public property or area.

12 DD Name: HYDRO Code: CATLND_12 Date accepted: 2000-11-01

> Name: swamp

Definition: an area 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.

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)

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

Name: cemetery

Definition: an area of land for burying the dead.

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)

Value	Data Dictionary (DD) Reference									
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: Information	a straight ve Standard - D		ce of timber or a hollo	w cylinder. (adapt	ed from Digital Geographic				
8	DD Name:	HYDRO	Code:	CATLMK_8	Date accepted:	2000-11-01				
	Name:	wind sock								
	Definition: wind directi	•			_	ith the wind, thus indicating the eric Administration - NOAA, 1969)				
9	DD Name:	HYDRO	Code:	CATLMK_9	Date accepted:	2000-11-01				
	Name:	monument								
	Definition: Information	on: a structure erected or maintained as a memorial to a person or event. (Digital Geographic tion Standard - DIGEST)								
10	DD Name:	HYDRO	Code:	CATLMK_10	Date accepted:	2000-11-01				
	Name:	column (pilla	r)							
	Definition: vertically. (0	a cylindrical Oxford Englisł	_		nsiderably greater	length than diameter erected				
11	DD Name:	HYDRO	Code:	CATLMK_11	Date accepted:	2000-11-01				
	Name:	memorial pla	que							
	Definition:	a slab of me	tal, usua	ally ornamented, erecte	ed as a memorial	to a person or event.				
12	DD Name:	HYDRO	Code:	CATLMK_12	Date accepted:	2000-11-01				
	Name:	obelisk								
	Definition: apex. (Ada			ally of stone or concret ish Dictionary)	te, square or recta	ngular in section, with a pyramidal				
13	DD Name:	HYDRO	Code:	CATLMK_13	Date accepted:	2000-11-01				
	Name:	statue								
	Definition:	a representa	ation of a	human, animal or fan	tasy figure in mar	ble, bronze, etc.				
14	DD Name:	HYDRO	Code:	CATLMK_14	Date accepted:	2000-11-01				

Value Data Dictionary (DD) Reference

Name: cross

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

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

Name: dome

Definition: a landmark comprising a hemispherical or spheroidal shaped structure (adapted from the

Macquarie Dictionary).

DD Name: HYDRO Code: CATLMK_16 Date accepted: 2000-11-01

Name: radar scanner

Definition: a device used for directing a radar beam through a search pattern (adapted from Navigation

Dictionary, US National Oceanic and Atmospheric Administration - NOAA, 1969)

17 DD Name: HYDRO Code: CATLMK 17 Date accepted: 2000-11-01

Name: tower

Definition: a relatively tall structure which may be used for observation, support, storage or communication

etc. (Digital Geographic Information Working Group -DGIWG, Oct. 1987)

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

Name: windmill

Definition: a wind driven system of vanes attached to a tower like structure (excluding wind-generated

power plants). (Digital Geographic Information Standard - DIGEST)

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

Name: windmotor

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

20 DD Name: HYDRO Code: CATLMK 20 Date accepted: 2000-11-01

Name: spire/minaret

Definition: a tall conical or pyramid-shaped structure often built on the roof or tower of a building,

especially a church or mosque. (adapted from The New Shorter Oxford English Dictionary, 1993)

21 DD Name: 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 lateral mark

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 lights

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)

5 DD Name: HYDRO Code: CATLIT_5 Date accepted: 2000-11-01

Name: aero light

Definition: an aero light is established for aeronautical navigation and may be of higher power than marine

lights and visible from well offshore

6 DD Name: HYDRO Code: CATLIT_6 Date accepted: 2000-11-01

Name: air obstruction light

Definition: a light marking an obstacle which constitutes a danger to air navigation

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.

Value	Data Diction	nary (DD) Ref	ary (DD) Reference							
13	DD Name:	HYDRO	Code:	CATLIT_13	Date accepted:	2000-11-01				
	Name:	rear								
	Definition: seaward.	terms used v	vith lead	ing lights to describe t	he position of the	light on the lead as viewed from				
14	DD Name:	HYDRO	Code:	CATLIT_14	Date accepted:	2000-11-01				
	Name:	lower								
	Definition: seaward.	terms used with leading lights to describe the position of the light on the lead as viewed from								
15	DD Name:	HYDRO	Code:	CATLIT_15	Date accepted:	2000-11-01				
	Name:	upper								
	Definition: seaward.	terms used v	vith lead	ing lights to describe t	he position of the	light on the lead as viewed from				

Attribute	Category of marine farm/culture
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Acronym: **CATMFA** Code: 38

Use Type: Value Type: Ε

Data Dictionary (DD) Reference:

DD Name: HYDRO Date accepted: 2010-08-12

Definition:

Enumerations:

Value	Data Dictio	ata Dictionary (DD) Reference								
1	DD Name:	HYDRO	Code:	CATMFA_1	Date accepted:	2010-08-12				
	Name:	crustaceans	crustaceans							
	Definition:	hard shelled	animals	, for example crabs or	lobsters					
2	DD Name:	HYDRO	Code:	CATMFA_2	Date accepted:	2010-08-12				
	Name:	oysters/mussels								
	Definition:	edible bivalve molluscs								
3	DD Name:	HYDRO	Code:	CATMFA_3	Date accepted:	2010-08-12				
	Name:	fish								
	Definition:	vertebrate co	old blood	ded animal with gills, li	ving in water.					

DD Name: HYDRO Code: CATMFA_4 Date accepted: 2010-08-12 4

> Name: seaweed

Definition: the general name for marine plants of the Algae class which grow in long narrow ribbons. (International Maritime Dictionary, 2nd Ed.)

Attribute	Category of military practice area
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Acronym: CATMPA Code: 39

Use Type: F
Value Type: L

Data Dictionary (DD) Reference:

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

Definition: Category of military practice area

Enumerations:

Value	Data Diction	nary (DD) Reference							
2	DD Name:	HYDRO	Code:	CATMPA_2	Date accepted:	2000-11-01			
	Name:	torpedo exerc	cise area	a					
	Definition:	an area withi	n which	exercises are carried	out with torpedos				
3	DD Name:	HYDRO	Code:	CATMPA_3	Date accepted:	2000-11-01			
	Name:	submarine ex	kercise a	area					
	Definition:	an area withi	n which	submarine exercises	are carried out.				
4	DD Name:	HYDRO	Code:	CATMPA_4	Date accepted:	2000-11-01			
	Name:	e: firing danger area							
	Definition:	areas for bor	mbing ar	nd missile exercises.					
5	DD Name:	HYDRO	Code:	CATMPA_5	Date accepted:	2000-11-01			
	Name:	mine-laying practice area							
	Definition:	an area withi	n which	mine laying exercises	are carried out.				
6	DD Name:	HYDRO	Code:	CATMPA_6	Date accepted:	2000-11-01			
	Name:	small arms fir	small arms firing range						
	Definition:	an area for shooting pistols, rifles and machine guns etc. at a target.							

Attribute Category of mooring/warping facility

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)

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

Name: bollard

Definition: small shaped post, mounted on a wharf or dolphin used to secure ship=s lines.

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)

4 DD Name: HYDRO Code: CATMOR_4 Date accepted: 2000-11-01

Name: tie-up wall

Definition: a tie-up wall is a section of wall designated for tying-up vessels awaiting transit. Bollards and

mooring devices are available for both large and small ships.

Value Data Dictionary (DD) Reference

2 DD Name: HYDRO Code: CATMOR_2 Date accepted: 2000-11-01

Name: deviation dolphin

Definition: a post or group of posts, which a vessel may swing around for compass adjustment.

Attribute Category of navigation line

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)

Edition 2.6.0 IENC Feature Catalogue

Attribute Category of obstruction

CATOBS Code: 42 Acronym:

Use Type: 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: 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

> wellhead Name:

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.

DD Name: HYDRO 4 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

Value Data Dictionary (DD) Reference

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).

11 DD Name: HYDRO Code: CATOBS_11 Date accepted: 2011-02-23

Name: fishing net

Definition: a piece of open-meshed material made of twine, cord, or something similar, used for catching fish

Attribute	Category of offshore platform
-----------	-------------------------------

Acronym: CATOFP Code: 43

Use Type: F
Value Type: L

Data Dictionary (DD) Reference:

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

Definition: Category of offshore platform

Enumerations:

Value Data Dictionary (DD) Reference

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

Name: oil derrick/rig

Definition: a temporary mobile structure, either fixed or floating, used in the exploration stages of oil and

gas fields. (IHO Dictionary, S-32, 5th Edition)

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

Name: production platform

Definition: a term used to indicate a permanent offshore structure equipped to control the flow of oil or gas.

It does not include entirely submarine structures. (IHO Dictionary, S-32, 5th Edition, 4037)

3 DD Name: HYDRO Code: CATOFP_3 Date accepted: 2000-11-01

Name: observation/research platform

Definition: a platform from which one=s surroundings or events can be observed, noted or recorded such

as for scientific study. (adapted from IHO Dictionary, S-32, 5th Edition, 3493/3500)

4 DD Name: HYDRO Code: CATOFP_4 Date accepted: 2000-11-01

Name: articulated loading platform (ALP)

Definition: a metal lattice tower, buoyant at one end and attached at the other by a universal joint to a concrete filled base on the sea bed. The platform may be fitted with a helicopter platform, emergency accommodation and hawser/hose retrieval. (adapted from United Kingdom Hydrographic Office CSDO

607.2 (12), May 1994)

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

Name: single anchor leg mooring

Value Data Dictionary (DD) Reference

Definition: a rigid frame or tube with a buoyancy device at its upper end, secured at its lower end to a universal joint on a large steel or concrete base resting on the sea bed, and at its upper end to a mooring buoy by a chain or wire. (adapted from United Kingdom Hydrographic Office CSDO 607.2 (12), May 1994)

6 DD Name: HYDRO Code: CATOFP_6 Date accepted: 2000-11-01

Name: mooring tower

Definition: a platform secured to the sea bed and surmounted by a turntable to which ships moor. (adapted from United Kingdom Hydrographic Office CSDO 607.2 (12), May 1994)

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

Name: artificial island

Definition: a man-made structure usually built for the exploration or exploitation of marine resources, marine scientific research, tidal observations, etc. (adapted from IHO Dictionary, S-32, 5th Edition, 240)

9 DD Name: HYDRO Code: CATOFP_9 Date accepted: 2000-11-01

Name: accommodation platform

Definition: a platform used primarily for eating, sleeping and recreation purposes.

Attribute Category of oil barrier

Acronym: CATOLB Code: 44

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: 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 pilot boarding place
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Acronym: CATPIL Code: 46

Use Type: F
Value Type: L

Data Dictionary (DD) Reference:

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

Definition: Category of pilot boarding place.

Enumerations:

Value Data Dictionary (DD) Reference 1 DD Name: HYDRO Code: CATPIL 1 Date accepted: 2000-11-01 Name: boarding by pilot-cruising vessel Definition: pilot boards from a cruising vessel. 2 DD Name: HYDRO Code: CATPIL_2 Date accepted: 2000-11-01 Name: boarding by helicopter Definition: pilot boards by helicopter which comes out from the shore. Code: CATPIL_3 Date accepted: 3 DD Name: HYDRO 2000-11-01 Name: pilot comes out from shore

Definition: pilot boards from a vessel which comes out from the shore on request.

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

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.

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.

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

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.

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.

6 DD Name: HYDRO Code: CATPRA_6 Date accepted: 2000-11-01

Value Data Dictionary (DD) Reference

Name: timber yard

Definition: a storage area for wood used for building, carpentry or joinery.

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

Name: factory area

Definition: a group of buildings where goods are manufactured.

8 DD Name: HYDRO Code: CATPRA_8 Date accepted: 2000-11-01

Name: tank farm

Definition: an area in which a number of large-capacity storage tanks are located, generally used for crude

oil or petroleum products.

9 DD Name: HYDRO Code: CATPRA_9 Date accepted: 2000-11-01

Name: wind farm

Definition: an area in which numerous wind motors are located.

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

Name: slag heap/spoil heap

Definition: hill of refuse from a mine, industrial plant etc. on land (adapted from Concise Oxford

Dictionary).

Attribute Category of pylon

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 pre-stressed concrete, to support a power transmission cable or line. (adapted from Digital Geographic Information Standard -

DIGEST FACC 1.2)

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

Value Data Dictionary (DD) Reference

Geographic Information Standard - DIGEST FACC 1.2)

Attribute Category of radar station

Acronym: CATRAS Code: 51

Use Type: F
Value Type: E

Data Dictionary (DD) Reference:

DD Name: 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 radar transponder beacon

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)

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 recommended track

Acronym: **CATTRK** Code: 54

Use Type: 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: CATTRK 1 Date accepted: 2000-11-01

> Name: based on a system of fixed marks

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

Navigation Guide, 1990)

2 DD Name: 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 restricted area							
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 reser	ve							
	Definition:	a tract of lar	ıd manaç	ged so as to preserve	it's flora, fauna, pł	nysical features, etc.				
5	DD Name:	HYDRO	Code:	CATREA_5	Date accepted:	2000-11-01				
	Name:	bird sanctua	bird sanctuary							
	Definition:	a place whe	re birds	are bred and protected	d.					
9	DD Name:	HYDRO	Code:	CATREA_9	Date accepted:	2000-11-01				
	Name:	military area								
	Definition: Australian I		trolled by	y the military in which	restrictions may a	pply. (Hydrographic Service, Royal				
12	DD Name:	HYDRO	Code:	CATREA_12	Date accepted:	2000-11-01				
	Name:	navigational aid safety zone								
	Definition:	an area arol	und a na	vigational aid which ve	essels are prohibit	ed from entering.				
19	DD Name:	HYDRO	Code:	CATREA_19	Date accepted:	2000-11-01				
	Name:	waiting area								
	Definition:	an area rese	erved for	vessels waiting to en	er a harbour.					
22	DD Name:	HYDRO	Code:	CATREA_22	Date accepted:	2000-11-01				
	Name:	fish sanctua	ry							

Value	Data Dictionary (DD) Reference									
	Definition:	a place where fi	ish aı	re protected.						
23	DD Name:	HYDRO Co	ode:	CATREA_23	Date accepted:	2000-11-01				
	Name:	ecological reser	ve							
	Definition: other and to	a tract of land mothering a their surrounding		ged so as to preserve	the relation of plar	nts and living creatures to each				
25	DD Name:	HYDRO Co	ode:	CATREA_25	Date accepted:	2000-11-01				
	Name:	swinging area								
	Definition: France).	an area where v	vesse	els turn. (Service Hydro	ographique et Océ	éanographique de la Marine,				
26	DD Name:	HYDRO Co	ode:	CATREA_26	Date accepted:	2000-11-01				
	Name:	water skiing are	a							
	Definition:	an area within v	which	people may water ski	and therefore ves	ssel movement may be restricted.				
6	DD Name:	HYDRO Co	ode:	CATREA_6	Date accepted:	2000-11-01				
	Name:	game reserve								
	Definition:	a place where v	vild a	nimals or birds hunted	for sport or food	are kept undisturbed for private use				
7	DD Name:	HYDRO Co	ode:	CATREA_7	Date accepted:	2000-11-01				
	Name:	seal sanctuary								
	Definition:	a place where s	seals	are protected.						
8	DD Name:	HYDRO Co	ode:	CATREA_8	Date accepted:	2000-11-01				
	Name:	degaussing rang	ge							
		sensing instrume	ents a			ps' magnetic fields may be n the range and there are cables				
10	DD Name:	HYDRO Co	ode:	CATREA_10	Date accepted:	2000-11-01				
	Name:	historic wreck a	rea							
	Definition: interference			ain wrecks of historical deposition (including	•	otect the wrecks from unauthorized				
14	DD Name:	HYDRO Co	ode:	CATREA_14	Date accepted:	2000-11-01				
	Name:	minefield								
	Definition:	an area laid and	d mai	ntained with explosive	mines for defence	e or practice purposes.				
18	DD Name:	HYDRO Co	ode:	CATREA_18	Date accepted:	2000-11-01				

Value Data Dictionary (DD) Reference

Name: swimming area

Definition: an area in which people may swim and therefore vessel movement may be restricted.

20 DD Name: HYDRO Code: CATREA 20 Date accepted: 2000-11-01

Name: research area

Definition: an area where marine research takes place.

21 DD Name: HYDRO Code: CATREA_21 Date accepted: 2000-11-01

Name: dredging area

Definition: an area where dredging is taking place.

24 DD Name: HYDRO Code: CATREA 24 Date accepted: 2000-11-01

Name: no wake area

Definition: an area in which a vessels' speed must be reduced in order to reduce the size of the wake it

produces.

27 DD Name: HYDRO Code: CATREA 27 Date accepted: 2022-11-23

Name: environmentally sensitive area

Definition: a generic term which may be used to describe a wide range of areas considered sensitive for a

variety of environmental reasons.

28 DD Name: HYDRO Code: CATREA_28 Date accepted: 2022-11-23

Name: particularly sensitive sea area

Definition: an area that needs special protection through action by IMO because of its significance for regional ecological, socio-economic, or scientific reasons and because it may be vulnerable to damage by

international shipping activities.

DD Name: HYDRO Code: CATREA_29 Date accepted: 2022-11-23

Name: disengagement area

Definition: an area near a fairway where vessels can go to clear the way or make an about turn and

possibly return to a waiting area when nautical conditions impose it.

30 DD Name: HYDRO Code: CATREA_30 Date accepted: 2022-11-23

Name: port security area

Definition: an area in which defence, law and treaty enforcement, and counter-terrorism activities that fall

within the port and maritime domain apply.

DD Name: HYDRO Code: CATREA_31 Date accepted: 2022-11-23

Name: coral sanctuary

Value Data Dictionary (DD) Reference

Definition: a place where coral is protected.

32 DD Name: HYDRO Code: CATREA_32 Date accepted: 2022-11-23

Name: recreation area

Definition: an area within which recreational activities regularly take place and therefore vessel movement

may be restricted.

1 DD Name: HYDRO Code: CATREA_1 Date accepted: 2000-11-01

Name: offshore safety zone

Definition: the area around an offshore installation within which vessels are prohibited from entering without permission; special regulations protect installations within a safety zone and vessels of all

nationalities are required to respect the zone

DD Name: IENC Code: CATREA_33 Date accepted: 2017-11-06

Name: ship pollution emission control

Definition: an area set up to regulate ship pollution emissions

Attribute Category of road

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.

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.

Attribute	Category of runway
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Acronym: CATRUN Code: 58

Use Type: F
Value Type: L

Data Dictionary (DD) Reference:

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

Definition: Category of runway

Enumerations:

Value Data Dictionary (DD) Reference

1 DD Name: HYDRO Code: CATRUN_1 Date accepted: 2000-11-01

Name: aeroplane runway

Definition: a level stretch of land where aeroplanes take off and land

DD Name: HYDRO Code: CATRUN_2 Date accepted: 2000-11-01

Name: helicopter landing pad

Definition: a site on which helicopters may land and take off

1	Attribute	Category of sea area			
,	Acronym:	CATSEA	Code:	59	
	Han Tumar	Б			

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 h	nazard to	o surface navigation th	nat is composed o	f unconsolidated material.
51	DD Name:	HYDRO	Code:	CATSEA_51	Date accepted:	2000-11-01
	Name:	canal				
	Definition:	an artificial w	ater co	urse used for navigation	on.	
53	DD Name:	HYDRO	Code:	CATSEA_53	Date accepted:	2000-11-01
	Name:	river				
	Definition:	a relatively la	arge nat	ural stream of water.		
52	DD Name:	HYDRO	Code:	CATSEA_52	Date accepted:	2000-11-01
	Name:	lake				
	Definition:	a large body	of wate	r entirely surrounded l	by land.	
12	DD Name:	HYDRO	Code:	CATSEA_12	Date accepted:	2000-11-01
	Name:	narrows				
	Definition:	a navigable r	narrow p	part of a bay, strait, riv	er, etc.	
54	DD Name:	HYDRO	Code:	CATSEA_54	Date accepted:	2000-11-01
	Name:	reach				
	Definition:	a straight sec	ction of	a river, specially a nav	vigable river betwe	een two bends or an arm of the

Value Data Dictionary (DD) Reference sea extending into the land

5 DD Name: HYDRO Code: CATSEA_5 Date accepted: 2000-11-01

Name: bay

Definition: an indentation in the coastline

57 DD Name: IENC Code: CATSEA_57 Date accepted: 2014-12-10

Name: chute

Definition: an inclined plane, sloping channel, or passage down or through which things may pass

DD Name: IENC Code: CATSEA_58 Date accepted: 2014-12-10

Name: backwater/slough

Definition: a body of water (as an inlet or tributary) that is out of the main current of a larger body

59 DD Name: IENC Code: CATSEA_59 Date accepted: 2014-12-10

Name: bend

Definition: a curve or change in direction of a watercourse or river

Attribute Category of shoreline construction

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)

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)

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

Name: wharf (quay)

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

Value Data Dictionary (DD) Reference

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).

DD Name: HYDRO Code: CATSLC 8 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)

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 bilge-blocks are laid for

supporting a vessel under construction. (IHO Dictionary, S-32, 5th Edition, 4775)

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

> Name: fender

Value Data Dictionary (DD) Reference

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

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 ship-handling; for example, a solid face wharf may give shelter from tidal streams, but under certain circumstances a cushion 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)

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.

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

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)

1 DD Name: HYDRO Code: CATSLO_1 Date accepted: 2000-11-01

Name: cutting

Definition: an excavation through high ground for a road, canal, etc.

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 Dictio	nary (DD) Ref	erence			
1	DD Name:	HYDRO	Code:	CATSCF_1	Date accepted:	2000-11-01
	Name:	visitor's berth	ı			
	Definition:	a berth set a	side for	the use of visiting ves	sels.	
2	DD Name:	HYDRO	Code:	CATSCF_2	Date accepted:	2000-11-01
	Name:	nautical club				
	Definition:	a club for ma	iriners g	enerally associated w	ith other small cra	ft facilities.
3	DD Name:	HYDRO	Code:	CATSCF_3	Date accepted:	2000-11-01
	Name:	boat hoist				
	Definition:	a hoist for lift	ing boa	ts out of the water.		
4	DD Name:	HYDRO	Code:	CATSCF_4	Date accepted:	2000-11-01
	Name:	sailmaker				
	Definition:	a place wher	e sails a	are made or may be ta	ken for repair.	
5	DD Name:	HYDRO	Code:	CATSCF 5	Date accepted:	2000-11-01
	Name:	boatyard		_	·	
	Definition:	a place on sh	nore wh	ere boats may be built	, stored and repai	red.
6	DD Name:	HYDRO	Code:	CATSCF 6	Date accepted:	2000-11-01
O	Name:	public inn	Code.	CATSCI_0	Date accepted.	2000-11-01
		•	se provi	ding food, drink and a	ccommodation (T	he Collins Reference English
	Definition:	a public hous	se provi	ding food, drink and a	ccommodation. (T	he Collins Reference English

Value	Data Dictio	nary (DD) Rei 1992)	ference			
7	DD Name:	HYDRO restaurant	Code:	CATSCF_7	Date accepted:	2000-11-01
	Definition:	a commercia	al establi	shment serving food.	(The Collins Refer	rence Dictionary, 1992)
8	DD Name:	HYDRO	Code:	CATSCF_8	Date accepted:	2000-11-01
	Name:	chandler				
	Definition:	a dealer in s	hips' su	oplies. (The Collins Re	eference Dictionar	y, 1992)
9	DD Name:	HYDRO	Code:	CATSCF_9	Date accepted:	2000-11-01
	Name:	provisions				
	Definition:	a place whe	re food a	and other such supplie	es are available.	
10	DD Name:	HYDRO	Code:	CATSCF_10	Date accepted:	2000-11-01
	Name:	doctor				
	Definition:	a place whe	re a doc	tor is available to prov	ide medical attent	ion.
11	DD Name:	HYDRO	Code:	CATSCF_11	Date accepted:	2000-11-01
	Name:	pharmacy				
	Definition:	a place whe	re medic	al drugs are dispense	d.	
12	DD Name:	HYDRO	Code:	CATSCF_12	Date accepted:	2000-11-01
	Name:	water tap				
	Definition:	a place whe	re fresh	water is available.		
13	DD Name:	HYDRO	Code:	CATSCF_13	Date accepted:	2000-11-01
	Name:	fuel station				
	Definition:	a place whe	re fuel is	available.		
14	DD Name:	HYDRO	Code:	CATSCF_14	Date accepted:	2000-11-01
	Name:	electricity				
	Definition:	a place whe	re a con	nection to an electrica	l supply is availab	le.
15	DD Name:	HYDRO	Code:	CATSCF_15	Date accepted:	2000-11-01
	Name:	bottle gas				
	Definition:	a place whe	re bottle	d gas is available.		

Value	Data Dictio	nary (DD) Ref	ference			
16	DD Name:	HYDRO	Code:	CATSCF_16	Date accepted:	2000-11-01
	Name:	showers				
	Definition:	a place whe	re show	ers are available.		
17	DD Name:	HYDRO	Code:	CATSCF_17	Date accepted:	2000-11-01
	Name:	launderette				
	Definition:	a place whe	re there	are facilities for washi	ng clothes.	
18	DD Name:	HYDRO	Code:	CATSCF_18	Date accepted:	2000-11-01
	Name:	public toilets				
	Definition:	a place whe	re toilets	are available for publ	ic use.	
19	DD Name:	HYDRO	Code:	CATSCF_19	Date accepted:	2000-11-01
	Name:	post box				
	Definition:	a place whe	re mail r	nay be posted.		
20	DD Name:	HYDRO	Code:	CATSCF_20	Date accepted:	2000-11-01
	Name:	public teleph	one			
	Definition:	a place whe	re a tele	phone is available for	public use.	
21	DD Name:	HYDRO	Code:	CATSCF_21	Date accepted:	2000-11-01
	Name:	refuse bin				
	Definition:	a place whe	re refuse	e may be dumped.		
22	DD Name:	HYDRO	Code:	CATSCF_22	Date accepted:	2000-11-01
	Name:	car park				
	Definition:	a place whe	re cars r	may be parked.		
23	DD Name:	HYDRO	Code:	CATSCF_23	Date accepted:	2000-11-01
	Name:	parking for b	oats and	d trailers		
	Definition:	a place on s	hore wh	ere boats and/or traile	rs may be parked.	
24	DD Name:	HYDRO	Code:	CATSCF_24	Date accepted:	2000-11-01
	Name:	caravan site				
	Definition:	a place whe	re carav	ans may be parked or	where caravan ac	ccommodation is provided.
25	DD Name:	HYDRO	Code:	CATSCF_25	Date accepted:	2000-11-01

Value Data Dictionary (DD) Reference

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.

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.

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 special purpose mark

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 9 DD Name: HYDRO Code: CATSPM 9 Date accepted: 2000-11-01 Name: ODAS (Ocean-Data-Acquisition-System) Ocean Data Acquisition System (IHO Dictionary, S-32, 5th Edition, 5953 Definition: 15 DD Name: HYDRO Code: CATSPM_15 Date accepted: 2000-11-01 Name: LANBY (Large Automatic Navigational Buoy) Definition: a large buoy designed to take the place of a lightship where construction of an offshore light station is not feasible. (IHO Dictionary, S-32, 5th Edition, 2656) 53 DD Name: HYDRO Code: CATSPM 53 Date accepted: 2000-11-01 Name: wellhead mark Definition: a mark indicating a borehole that produces or is capable of producing oil or natural gas. (adapted from IHO Dictionary, S-32, 5th Edition, 5971)

DD Name: HYDRO Code: CATSPM_56 Date accepted: 2000-11-01

Name: artificial reef mark

Definition: a mark indicating the existence or the extent of an artificial reef.

1 DD Name: HYDRO Code: CATSPM_1 Date accepted: 2000-11-01

Name: firing danger area mark

Definition: a mark used to indicate a firing danger area, usually at sea.

DD Name: HYDRO Code: CATSPM_2 Date accepted: 2000-11-01

Value Data Dictionary (DD) Reference

Name: target mark

Definition: any object toward which something is directed. The distinctive marking or instrumentation of a

ground point to aid its identification on a photograph.

DD Name: HYDRO Code: CATSPM_3 Date accepted: 2000-11-01

Name: marker ship mark

Definition: a mark marking the position of a ship which is used as a target during some military exercise.

4 DD Name: HYDRO Code: CATSPM_4 Date accepted: 2000-11-01

Name: degaussing range mark

Definition: a mark used to indicate a degaussing range,

5 DD Name: HYDRO Code: CATSPM_5 Date accepted: 2000-11-01

Name: barge mark

Definition: a mark of relevance to barges.

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 land.

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

Name: spoil ground mark

Definition: a mark used to indicate the limit of a spoil ground.

8 DD Name: HYDRO Code: CATSPM_8 Date accepted: 2000-11-01

Name: outfall mark

Definition: a mark used to indicate the position of an outfall or the point at which it leaves 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.

11 DD Name: HYDRO Code: CATSPM_11 Date accepted: 2000-11-01

Name: seaplane anchorage mark

Definition: a mark used to indicate a seaplane anchorage.

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

Name: recreation zone mark

Value	Data Dictio	nary (DD) Reference
	Definition:	a mark used to indicate a recreation zone.
13	DD Name:	HYDRO Code: CATSPM_13 Date accepted: 2000-11-01
	Name:	private mark
	Definition:	a privately maintained mark
14	DD Name:	HYDRO Code: CATSPM_14 Date accepted: 2000-11-01
	Name:	mooring mark
	Definition:	a mark indicating a mooring or moorings.
16	DD Name:	HYDRO Code: CATSPM_16 Date accepted: 2000-11-01
	Name:	leading mark
	Definition: marks iden	aids to navigation or other indicators so located as to indicate the path to be followed. Leading ify a leading line when they are in transit
17	DD Name:	HYDRO Code: CATSPM_17 Date accepted: 2000-11-01
	Name:	measured distance mark
	Definition:	a mark forming part of a transit indicating one end of a measured distance.
18	DD Name:	HYDRO Code: CATSPM_18 Date accepted: 2000-11-01
	Name:	notice mark
	Definition:	a notice board or sign indicating information to the mariner.
19	DD Name:	HYDRO Code: CATSPM_19 Date accepted: 2000-11-01
	Name:	TSS mark
	Definition:	a mark indicating a traffic separation scheme
20	DD Name:	HYDRO Code: CATSPM_20 Date accepted: 2000-11-01
	Name:	anchoring prohibited mark
	Definition:	a mark indicating an anchoring prohibited area.
21	DD Name:	HYDRO Code: CATSPM_21 Date accepted: 2000-11-01
	Name:	berthing prohibited mark
	Definition:	a mark indicating that berthing is prohibited.
22	DD Name:	HYDRO Code: CATSPM_22 Date accepted: 2000-11-01
	Name:	overtaking prohibited mark
	Definition:	a mark indicating that overtaking is prohibited.

Value	Data Dictio	nary (DD) Refe	erence			
23	DD Name:	HYDRO	Code:	CATSPM_23	Date accepted:	2000-11-01
	Name:	two-way traffic	c prohib	oited mark		
	Definition:	a mark indica	iting a c	one-way route.		
24	DD Name:	HYDRO	Code:	CATSPM_24	Date accepted:	2000-11-01
	Name:	'reduced wake	e' mark			
	Definition:	a mark indica	iting tha	at vessels must not ge	nerate excessive	wake.
25	DD Name:	HYDRO	Code:	CATSPM_25	Date accepted:	2000-11-01
	Name:	speed limit ma	ark			
	Definition:	a mark indica	iting tha	at a speed limit applies	3.	
26	DD Name:	HYDRO	Code:	CATSPM_26	Date accepted:	2000-11-01
	Name:	stop mark				
	Definition:	a mark indica	iting the	place where the bow	of a ship must sto	pp when traffic lights show red.
27	DD Name:	HYDRO	Code:	CATSPM_27	Date accepted:	2000-11-01
	Name:	general warni	ng marl	k		
	Definition:	a mark indica	iting tha	at special caution mus	t be exercised in the	ne vicinity of the mark.
28	DD Name:	HYDRO	Code:	CATSPM_28	Date accepted:	2000-11-01
	Name:	'sound ship's	siren' m	nark		
	Definition:	a mark indica	iting tha	at a ship should sound	its siren or horn.	
29	DD Name:	HYDRO	Code:	CATSPM_29	Date accepted:	2000-11-01
	Name:	restricted vert	ical cle	arance mark		
	Definition:	a mark indica	iting the	e minimum vertical spa	ace available for pa	assage.
30	DD Name:	HYDRO	Code:	CATSPM_30	Date accepted:	2000-11-01
	Name:	maximum ves	ssel's dr	aught mark		
	Definition:	a mark indica	iting the	maximum draught of	vessel permitted.	
31	DD Name:	HYDRO	Code:	CATSPM_31	Date accepted:	2000-11-01
	Name:	restricted hori	izontal d	clearance mark		
	Definition:	a mark indica	iting the	e minimum horizontal s	space available for	r passage.
32	DD Name:	HYDRO	Code:	CATSPM_32	Date accepted:	2000-11-01

Value	Data Dictio	nary (DD) Ref	ference			
	Name:	strong curre		ng mark		
		-		rong currents.		
			-	-		
33	DD Name:			CATSPM_33	Date accepted:	2000-11-01
	Name:	berthing peri				
	Definition:	a mark indic	ating tha	at berthing is allowed.		
34	DD Name:	HYDRO	Code:	CATSPM_34	Date accepted:	2000-11-01
	Name:	overhead po	wer cab	le mark		
	Definition:	a mark indic	ating an	overhead power cable	Э.	
35	DD Name:	HYDRO	Code:	CATSPM_35	Date accepted:	2000-11-01
	Name:	'channel edg	je gradie	ent' mark		
	Definition:	a mark indic	ating the	e gradient of the slope	of a dredge chanr	nel edge.
36	DD Name:	HYDRO	Code:	CATSPM 36	Date accepted:	2000-11-01
00	Name:	telephone m		6/ (16/ M_66	Date accepted.	2000 11 01
		·		e presence of a telepho	one	
37	DD Name:			CATSPM_37	Date accepted:	2000-11-01
	Name:	ferry crossin	_			
	Definition: mark.	a mark indic	ating tha	at a ferry route crosses	s the ship route; of	ten used with a 'sound ship's siren'
39	DD Name:	HYDRO	Code:	CATSPM 39	Date accepted:	2000-11-01
	Name:	pipeline mar		6/ tr 6/ m_66	Bate acceptou.	2000 11 01
	Definition:	•		ate the position of sub	marine ninelines d	or the point at which they run on to
	the land.	a mark asoa	i to iriaio	ato the position of our	marino pipolinos c	or the point at willon they full on to
40	DD Name:	HYDRO	Code:	CATSPM_40	Date accepted:	2000-11-01
	Name:	anchorage n	nark			
	Definition:	a mark indic	ating an	anchorage area.		
41	DD Name:	HYDRO	Code:	CATSPM_41	Date accepted:	2000-11-01
	Name:	clearing mar	k			
	Definition:	a mark used	l to indic	ate a clearing line.		
42	DD Name:	HYDRO	Code:	CATSPM_42	Date accepted:	2000-11-01
				_	•	

Value	Data Dictio	nary (DD) Ref	erence			
	Name:	control mark				
	Definition:	a mark indica	ating the	e location at which a re	estriction or require	ement exists.
43	DD Name:	HYDRO	Code:	CATSPM_43	Date accepted:	2000-11-01
	Name:	diving mark				
	Definition:	a mark indic	ating tha	at diving may take plac	e in the vicinity.	
44	DD Name:	HYDRO	Code:	CATSPM_44	Date accepted:	2000-11-01
	Name:	refuge beaco	on			
	Definition:	a mark provi	ding or i	ndicating a place of sa	afety.	
45	DD Name:	HYDRO	Code:	CATSPM_45	Date accepted:	2000-11-01
	Name:	foul ground r	mark			
	Definition:	a mark indic	ating a f	oul ground.		
46	DD Name:	HYDRO	Code:	CATSPM_46	Date accepted:	2000-11-01
	Name:	yachting mar	rk			
	Definition:	a mark insta	lled for ι	use by yachtsmen.		
47	DD Name:	HYDRO	Code:	CATSPM_47	Date accepted:	2000-11-01
	Name:	heliport mark	(
	Definition:	a mark indic	ating an	area where helicopter	rs may land.	
48	DD Name:	HYDRO	Code:	CATSPM_48	Date accepted:	2000-11-01
	Name:	GPS mark				
	Definition:	a mark indic	ating a l	ocation at which a GPS	S position has bee	n accurately determined.
49	DD Name:	HYDRO	Code:	CATSPM_49	Date accepted:	2000-11-01
	Name:	seaplane lan	ding ma	rk		
	Definition:	a mark indic	ating an	area where sea-plane	es land.	
50	DD Name:	HYDRO	Code:	CATSPM_50	Date accepted:	2000-11-01
	Name:	entry prohibit	ted mark	(
	Definition:	a mark indic	ating tha	at entry is prohibited.		
51	DD Name:	HYDRO	Code:	CATSPM_51	Date accepted:	2000-11-01
	Name:	work in progi	ress mai	rk		
	Definition:	a mark indic	ating tha	at work (generally cons	struction) is in prog	gress.

Value	Data Diction	nary (DD) Refe	erence			
52	DD Name:	HYDRO	Code:	CATSPM_52	Date accepted:	2000-11-01
	Name:	mark with unl	known p	urpose		
	Definition:	a mark whos	e detaile	ed characteristics are u	unknown.	
54	DD Name:	HYDRO	Code:	CATSPM_54	Date accepted:	2000-11-01
	Name:	channel sepa	ration m	nark		
	Definition:	a mark indica	ating the	point at which a chan	nel divides separa	ately into two channels.
55	DD Name:	HYDRO	Code:	CATSPM_55	Date accepted:	2000-11-01
	Name:	marine farm ı	mark			
	Definition:	a mark indica	ating the	existence of a fish, m	ussel, oyster or pe	earl farm/culture.

Attribute	Category of temporal variation
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Acronym: CATTEV Code: 19000

Use Type: F
Value Type: E

Data Dictionary (DD) Reference:

Name:

Definition:

DD Name: HYDRO Date accepted: 2019-05-13

unassessed

Definition: An assessment of the likelihood of change over time.

Enumerations:

Value Data Dictionary (DD) Reference 4 DD Name: HYDRO Code: CATTEV 4 Date accepted: 2019-05-13 Name: likely to change Definition: 5 Code: CATTEV_5 Date accepted: 2019-05-13 DD Name: HYDRO Name: unlikely to change Definition: 6 DD Name: HYDRO Code: CATTEV_6 Date accepted: 2019-05-13

Attribute	Category of Tidal stream	
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Acronym: CAT_TS Code: 188

Use Type: F

Value Type: L

Data Dictionary (DD) Reference:

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

Definition: Category of Tidal stream

Enumerations:

Value Data Dictionary (DD) Reference

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

Name: flood stream

Definition: the horizontal movement of water associated with the rising tide. Flood streams generally set towards the shore, or in the direction of the tide progression. Also called flood, flood current or ingoing stream. (Adapted from IHO Dictionary, S-32, 5th Edition)

DD Name: HYDRO Code: CAT_TS_2 Date accepted: 2000-11-01

Name: ebb stream

Definition: the horizontal movement of water associated with falling tide. Ebb streams generally set seaward, or in the opposite direction to the tide progression. Also called ebb, ebb current or outgoing stream. (Adapted from IHO Dictionary, S-32, 5th Edition)

3 DD Name: HYDRO Code: CAT_TS_3 Date accepted: 2000-11-01

Name: other tidal flow

Definition: any other horizontal movement of water associated with tides, eg. rotary flow.

Attribute	Category of traffic separation scheme
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Acronym: CATTSS Code: 67

Use Type: F
Value Type: E

Data Dictionary (DD) Reference:

DD Name: HYDRO Date accepted: 2010-08-11

Definition:

Enumerations:

Value Data Dictionary (DD) Reference

1 DD Name: HYDRO Code: CATTSS_1 Date accepted: 2010-08-11

Name: IMO - adopted

Definition: a defined Traffic Separation Scheme that has been adopted as an IMO routing measure.

DD Name: HYDRO Code: CATTSS_2 Date accepted: 2010-08-11

Name: not IMO - adopted

Definition: a defined Traffic Separation Scheme that has not been adopted as an IMO routing measure.

Attribute	Category of vegetation
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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 Dictio	nary (DD) Ref	ary (DD) Reference								
6	DD Name:	HYDRO	Code:	CATVEG_6	Date accepted:	2000-11-01					
	Name:	wood in gene	ood in general (inc mixed wood)								
	Definition:	growing tree	s dense	y occupying a tract of	land. (The Concis	e Oxford Dictionary)					
13	DD Name:	HYDRO	Code:	CATVEG_13	Date accepted:	2000-11-01					
	Name:	tree in gener	ree in general								
	Definition:	a woody per	ennial pl	ant, having a self supp	porting main stem	or trunk.					
11	DD Name:	HYDRO	Code:	CATVEG_11	Date accepted:	2000-11-01					
	Name:	reed									

Definition: any of various water or marsh plants with a firm stem

Attribute Category of water turbulence

Acronym: CATWAT Code: 69

Use Type: F Value Type: L

Data Dictionary (DD) Reference:

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

Definition: Category of water turbulence

Enumerations:

Value Data Dictionary (DD) Reference

6 DD Name: IENC Code: CATWAT_6 Date accepted: 2014-07-11

Name: under water turbulence

Definition:

Attribute Category of weed/kelp

Acronym: CATWED Code: 70

Use Type: F
Value Type: L

Data Dictionary (DD) Reference:

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

Definition: Category of week/kelp

Enumerations:

Value Data Dictionary (DD) Reference

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

Name: kelp

Definition: a giant plant sometimes 60 metres long with no roots, it is anchored by hold-fasts or tendrils up to 10 metres long, that cling to rock. Gas filled bubbles on fronds act as floats keeping the kelp just below the surface. (Earth Sciences References, Mary McNeil)

DD Name: HYDRO Code: CATWED_2 Date accepted: 2000-11-01

Name: sea weed

Definition: general name for marine plants of the algae class which grow in long narrow ribbons. Also called sea grass. (International Maritime Dictionary, 2nd Edition)

3 DD Name: HYDRO Code: CATWED_3 Date accepted: 2000-11-01

Name: sea grass

Definition: any grasslike marine alga. Eelgrass is one of the best known seagrasses. (IHO Dictionary, S-

32, 5th Edition, 4565)

4 DD Name: HYDRO Code: CATWED_4 Date accepted: 2000-11-01

Name: sargasso

Definition: a certain type of sea weed, or more generally, a large floating mass of this sea weed. (IHO

Dictionary, S-32, 5th Edition, 4501)

Attribute Category of wreck

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.

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

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 Diction	nary (DD) Ref	ference			
1	DD Name: Name: Definition:	HYDRO zone of conf		CATZOC_1	Date accepted:	2000-11-01
2	DD Name: Name: Definition:	HYDRO zone of conf		CATZOC_2 2	Date accepted:	2000-11-01
3		HYDRO zone of conf		CATZOC_3	Date accepted:	2000-11-01
4	DD Name:			CATZOC_4	Date accepted:	2000-11-01
5	DD Name: Name: Definition:	HYDRO zone of conf		CATZOC_5	Date accepted:	2000-11-01
6	DD Name: Name: Definition:			CATZOC_6 J (data not assessed)	Date accepted:	2000-11-01

Attribute Colour

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 Dictio	nary (DD) Ref	erence			
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
Ü	Name:	blue	Oodo.	0020011_0	Date decepted.	2000 11 01
	Definition:	2.30				
					5.	0000 44 04
6	DD Name:		Code:	COLOUR_6	Date accepted:	2000-11-01
	Name:	yellow				
	Definition:					

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

Attribute Colour pattern

Acronym: COLPAT Code: 76

Use Type: F
Value Type: L

Data Dictionary (DD) Reference:

Name:

border stripe

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 straight bands or stripes of differing colours painted horizontally. Definition: 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 straight bands or stripes of differing colours painted diagonally (ie not horizontally or vertically). Definition: DD Name: HYDRO Code: COLPAT 4 Date accepted: 2000-11-01 4 Name: squared 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. Code: COLPAT_6 6 DD Name: HYDRO Date accepted: 2000-11-01

Value Data Dictionary (DD) Reference

Definition: a band or stripe of colour which is displayed around the outer edge of the object, which may also form a border to an inner pattern or plain colour.

Attribute	Communication channel

Acronym: COMCHA Code: 77

Use Type: F Value Type: S

Data Dictionary (DD) Reference:

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

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

Attribute Condition

Acronym: CONDTN Code: 81

Use Type: F
Value Type: E

Data Dictionary (DD) Reference:

DD Name: HYDRO Date accepted: 2010-11-16

Definition:

Enumerations:

Value Data Dictionary (DD) Reference

1 DD Name: HYDRO Code: CONDTN 1 Date accepted: 2010-11-16

Name: under construction

Definition: a structure that is in the process of being built.

DD Name: HYDRO Code: CONDTN_2 Date accepted: 2010-11-16

Name: ruined

Definition: a structure in a decayed or deteriorated condition resulting from neglect or disuse, or a

damaged structure in need of repair.(IHO Dictionary, S-32, 5th Edition, 4456)

DD Name: HYDRO Code: CONDTN_3 Date accepted: 2010-11-16

Name: under reclamation

Definition: an area of the sea that is being reclaimed as land, usually by the dumping of earth and other

material.

4 DD Name: HYDRO Code: CONDTN_4 Date accepted: 2010-11-16

Name: wingless

Definition: a windmill or windmotor from which the turbine blades are missing.

5 DD Name: HYDRO Code: CONDTN_5 Date accepted: 2010-11-16

Name: planned construction

Definition: an area where a future construction is planned

Attribute Conspicuous, radar

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

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

Name: radar conspicuous

Definition: an object which returns a strong radar echo. (IHO Dictionary, S-32, 5th Edition, 4142)

DD Name: HYDRO Code: CONRAD_2 Date accepted: 2000-11-01

Name: not radar conspicuous

Definition: an object which does not return a particularly strong radar echo.

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

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)

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.

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Acronym: CURVEL Code: 84

Use Type: F
Value Type: F

Data Dictionary (DD) Reference:

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

Definition: Current velocity

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

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.

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 Depth range	ue 2
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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
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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 Specifications,

M-4

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	Exposition of sounding		
Acronym:	EXPSOU	Code:	93
Use Type:	F		

Data Dictionary (DD) Reference:

Ε

DD Name: HYDRO Date accepted: 2010-08-12

Definition: Indicates objects with a 'value of sounding' not within the range of depth of the surrounding depth area.

Enumerations:

Value Type:

Value Data Dictionary (DD) Reference 1 DD Name: HYDRO Code: EXPSOU 1 Date accepted: 2010-08-12 Name: within the range of depth of the surrounding depth area Definition: the depth corresponds to the depth range of the surrounding depth area. i.e. the depth is not shoaler than the minimum depth of the surrounding depth area or deeper than the maximum depth of the surrounding depth area. 2 DD Name: HYDRO Code: EXPSOU_2 Date accepted: 2010-08-12 Name: shoaler than the range of depth of the surrounding depth area Definition: the depth is shoaler than the minimum depth of the surrounding depth area. 3 DD Name: HYDRO Code: EXPSOU 3 Date accepted: 2010-08-12 deeper than the range of depth of the surrounding depth area Name: Definition: the depth is deeper than the maximum depth of the surrounding depth area.

Edition 2.6.0 IENC Feature Catalogue

Attribute **Function FUNCTN** Code: 94

Use Type:

Acronym:

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.

DD Name: HYDRO Code: FUNCTN 4 Date accepted: 4 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 Date accepted: Code: FUNCTN_5 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

Definition: the public department, agency or organisation responsible primarily for the collection,

transmission and distribution of mail. (The New Shorter Oxford English Dictionary, 1993)

324 IENC FC 26.DOCX

Value	Data Dictio	nary (DD) Ref	ference			
7	DD Name:	HYDRO	Code:	FUNCTN_7	Date accepted:	2000-11-01
	Name:	hotel				
				•		nd, where paying visitors are ter Oxford English Dictionary,
8	DD Name:	HYDRO	Code:	FUNCTN_8	Date accepted:	2000-11-01
	Name:	railway statio	on			
	Definition: Oxford Eng	a building w glish Dictionary	•	rms where trains arriv	e, load, discharge	and depart. (The New Shorter
9	DD Name:	HYDRO	Code:	FUNCTN_9	Date accepted:	2000-11-01
	Name:	police station	า			
	Definition:	the office of	the loca	I police force.		
10	DD Name:	HYDRO	Code:	FUNCTN_10	Date accepted:	2000-11-01
	Name:	water-police	station			
	Definition:	the headqua	rters of	a local water-police fo	rce.	
11	DD Name:	HYDRO	Code:	FUNCTN_11	Date accepted:	2000-11-01
	Name:	pilot office				
	Definition: (IHO Dictio	the office or nary, S-32, 5t	•	•	ce where the serv	ices of a pilot may be obtained.
12	DD Name:	HYDRO	Code:	FUNCTN_12	Date accepted:	2000-11-01
	Name:	pilot lookout				
	Definition: the coast. (e on shore from which 5th Edition, 2917)	personnel keep w	vatch upon events at sea or along
13	DD Name:	HYDRO	Code:	FUNCTN_13	Date accepted:	2000-11-01
	Name:	bank office				
	Definition: Shorter Ox	an office for ford English D	-	•	nge or issue of mo	ney. (adapted from The New
14	DD Name:	HYDRO	Code:	FUNCTN_14	Date accepted:	2000-11-01
	Name:	headquarter	s for dist	rict control		

IENC_FC_26.DOCX 325

Definition: the quarters of an executive officer (director, manager, etc.) with responsibility for an

administrative area.

Value	Data Dictio	nary (DD) Ref	erence			
15	DD Name:	HYDRO	Code:	FUNCTN_15	Date accepted:	2000-11-01
	Name:	transit shed/	warehou	ise		
	Definition: Oxford Eng	a building or lish Dictionary	-	a building for storage o	of wares or goods.	(adapted from The New Shorter
16	DD Name:	HYDRO	Code:	FUNCTN_16	Date accepted:	2000-11-01
	Name:	factory				
	Definition: English Did	a building or ctionary, 1993)	_	s with equipment for r	manufacturing; a v	vorkshop. (The New Shorter Oxford
17	DD Name:	HYDRO	Code:	FUNCTN_17	Date accepted:	2000-11-01
	Name:	power station	า			
	•	-	nical or	nuclear energy) into e	-	ersion of some form of energy (such McGraw-Hill Dictionary of Scientific
18	DD Name:	HYDRO	Code:	FUNCTN_18	Date accepted:	2000-11-01
	Name:	administrativ	е			
	Definition: Dictionary,	_	r the ma	nagement of affairs. (a	adapted from The	New Shorter Oxford English
19	DD Name:	HYDRO	Code:	FUNCTN_19	Date accepted:	2000-11-01
	Name:	educational t	acility			
	Definition:	a building co	ncernec	d with education (eg. s	chool, college, un	iversity, etc.)
20	DD Name:	HYDRO	Code:	FUNCTN_20	Date accepted:	2000-11-01
	Name:	church				
	Definition:	a building fo	r public	Christian worship. (Th	e New Shorter Ox	ford English Dictionary, 1993)
21	DD Name:	HYDRO	Code:	FUNCTN_21	Date accepted:	2000-11-01
	Name:	chapel				
	Definition: to a private	•		worship other than a p The New Shorter Oxfo		or church, especially one attached eary, 1993)
22	DD Name:	HYDRO	Code:	FUNCTN_22	Date accepted:	2000-11-01
	Name:	temple				
	Definition: 1993)	a building fo	r public .	Jewish worship. (adap	ted from The New	Shorter Oxford English Dictionary,

Value	Data Dictio	nary (DD) Ref	erence			
23	DD Name:	HYDRO	Code:	FUNCTN_23	Date accepted:	2000-11-01
	Name:	pagoda			2 a. a a a a a a a a a a a a a a a a a a	
	Definition: 1993)		uddhist	temple or sacred build	ling. (The New Sh	orter Oxford English Dictionary,
24	DD Name:	HYDRO	Code:	FUNCTN_24	Date accepted:	2000-11-01
	Name:	shinto shrine				
	Definition: 1993)	a building for	r public	Shinto worship. (adap	ted from The New	Shorter Oxford English Dictionary,
25	DD Name:	HYDRO	Code:	FUNCTN_25	Date accepted:	2000-11-01
	Name:	buddhist tem	ple			
	Definition:	see pagoda.				
26	DD Name:	HYDRO	Code:	FUNCTN_26	Date accepted:	2000-11-01
	Name:	mosque				
	Definition:	a Muslim pla	ce of wo	orship. (The New Sho	ter Oxford English	n Dictionary, 1993)
27	DD Name:	HYDRO	Code:	FUNCTN_27	Date accepted:	2000-11-01
	Name:	marabout				
	Definition: Dictionary,		king the	burial place of a Mus	lim holy man. (The	e New Shorter Oxford English
28	DD Name:	HYDRO	Code:	FUNCTN_28	Date accepted:	2000-11-01
	Name:	lookout				
	Definition: Edition,291		atch upc	on events at sea or alc	ng the coast. (ada	apted from IHO Dictionary, S-32,5th
29	DD Name:	HYDRO	Code:	FUNCTN_29	Date accepted:	2000-11-01
	Name:	communication	on			
	Definition: Geographic	transmitting a c Information S		_	mmunication signa	als. (adapted from Digital
30	DD Name:	HYDRO	Code:	FUNCTN_30	Date accepted:	2000-11-01
	Name:	television				
	Definition:	broadcast of	televisi	on signals.		
31	DD Name:	HYDRO	Code:	FUNCTN_31	Date accepted:	2000-11-01
	Name:	radio		_		

Value	Data Dictio	onary (DD) Re	ference			
	Definition:	broadcast o	f radio si	gnals.		
32	DD Name:	HYDRO	Code:	FUNCTN_32	Date accepted:	2000-11-01
	Name:	radar				
			-	,		and timed radio waves for Dictionary, S-32, 5th Edition,4158)
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 re	ceiving signals using r	nicrowaves.	
35	DD Name:	HYDRO	Code:	FUNCTN_35	Date accepted:	2000-11-01
	Name:	cooling				
	Definition:	dissipating h	neat.			
36	DD Name:	HYDRO	Code:	FUNCTN_36	Date accepted:	2000-11-01
	Name:	observation				
	Definition: maintained	•		he surroundings can b Dictionary, S-32, 5th Ed		which a watch is not habitually
37	DD Name:	HYDRO	Code:	FUNCTN_37	Date accepted:	2000-11-01
	Name:	time ball				
	Definition:	a visual time	e signal i	n form of a ball		
38	DD Name:	HYDRO	Code:	FUNCTN_38	Date accepted:	2000-11-01
	Name:	clock				
	Definition:	visual time s	signal. (a	dapted from S-32, 5th	Edition, 5536)	
39	DD Name:	HYDRO	Code:	FUNCTN_39	Date accepted:	2000-11-01
	Name:	control				
	Definition: DIGEST)	used to con	trol the fl	ow of air, rail, or marir	ne traffic. (Digital C	Geographic Information Standard -
40	DD Name:	HYDRO	Code:	FUNCTN_40	Date accepted:	2000-11-01
	Name:	airship moor	ring			

Value Data Dictionary (DD) Reference

Definition: a facility to secure an airship. (adapted from Digital Geographic Information Standard -

DIGEST)

41 DD Name: HYDRO Code: FUNCTN_41 Date accepted: 2000-11-01

Name: stadium

Definition: a large usually unroofed building with tiers of seats for spectators

42 DD Name: HYDRO Code: FUNCTN_42 Date accepted: 2000-11-01

Name: bus station

Definition: a location at which buses arrive and from which they depart.

Attribute Height

Acronym: HEIGHT Code: 95

Use Type: F
Value Type: F

Data Dictionary (DD) Reference:

DD Name: 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 Accuracy
-----------	---------------------

Acronym: HORACC Code: 97

Use Type: F
Value Type: F

Data Dictionary (DD) Reference:

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

Definition: The best estimate of the horizontal accuracy of horizontal clearance and distances.

Attribute	Horizontal clearance		
Acronym:	HORCLR	Code:	98
Use Type:	F		

Data Dictionary (DD) Reference:

F

Value Type:

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	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	Horizontal width
-----------	------------------

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	Information in national language
-----------	----------------------------------

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 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.

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

Name: isophased

Definition: a light with all durations of light and darkness equal. (IHO Dictionary, S-32, 5th Edition, 2779)

IENC FC 26.DOCX 338

Value	Data Dictio	nary (DD) Ref	erence			
9	DD Name:	HYDRO	Code:	LITCHR_9	Date accepted:	2000-11-01
	Name:	interrupted q	uick-flas	shing		
	Definition: constant ar			the sequence of flash Dictionary, S-32, 5th I	·	by regularly repeated eclipses of
5	DD Name:	HYDRO	Code:	LITCHR_5	Date accepted:	2000-11-01
	Name:	very quick-fla	ashing			
	Definition: less than 1	a flashing lig 60 flashes per		ich flashes are repeate	ed at a rate of not	less than 80 flashes per minute but
6	DD Name:	HYDRO	Code:	LITCHR_6	Date accepted:	2000-11-01
	Name:	ultra quick fla	ashing			
	Definition:	a flashing lig	ht in wh	ich flashes are repeat	ed at a rate of not	less than 160 flashes per minute
8	DD Name:	HYDRO	Code:	LITCHR_8	Date accepted:	2000-11-01
	Name:	occulting				
	Definition: duration of		_	nich the total duration eclipses are of equal d	•	is clearly longer than the total
10	DD Name:	HYDRO	Code:	LITCHR_10	Date accepted:	2000-11-01
	Name:	interrupted v	ery quic	k-flashing		
	Definition: intervals by	a light in whi		• •	f light and darknes	ss are interrupted at regular
11	DD Name:	HYDRO	Code:	LITCHR_11	Date accepted:	2000-11-01
	Name:	interrupted u	ltra quic	k-flashing		
	Definition: intervals by	a light in whi eclipses of lo			or more per minu	te) are interrupted at regular
12	DD Name:	HYDRO	Code:	LITCHR_12	Date accepted:	2000-11-01
	Name:	morse				
	Definition: represent a	-	_	nich appearances of liques in the Morse code	ght of two clearly o	different durations are grouped to
13	DD Name:	HYDRO	Code:	LITCHR_13	Date accepted:	2000-11-01
	Name:	fixed/flash				
	Definition:					
28	DD Name:	HYDRO	Code:	LITCHR_28	Date accepted:	2000-11-01

Value	Data Diction	nary (DD) Refe	erence			
	Name:	alternating				
	Definition: sequence w	a signal light vith a regular p			ction, two or more	colours in a regularly repeated
14	DD Name:	HYDRO	Code:	LITCHR_14	Date accepted:	2000-11-01
	Name: Definition:	flash/long-flas	sh			
15	DD Name: Name: Definition:	HYDRO occulting/flas		LITCHR_15	Date accepted:	2000-11-01
16	DD Name: Name: Definition:	HYDRO fixed/long-flas		LITCHR_16	Date accepted:	2000-11-01
17	DD Name: Name: Definition:	HYDRO occulting alte		LITCHR_17	Date accepted:	2000-11-01
18	DD Name: Name: Definition:	HYDRO long-flash alte		LITCHR_18	Date accepted:	2000-11-01
19	DD Name: Name: Definition:	HYDRO flash alternati		LITCHR_19	Date accepted:	2000-11-01
20	DD Name: Name: Definition:	HYDRO group alterna		LITCHR_20	Date accepted:	2000-11-01
25	DD Name: Name: Definition:	HYDRO quick-flash pl		LITCHR_25 -flash	Date accepted:	2000-11-01
26	DD Name:	HYDRO very quick-fla		LITCHR_26 long-flash	Date accepted:	2000-11-01

Value Data Dictionary (DD) Reference

Definition:

27 DD Name: HYDRO Code: LITCHR_27 Date accepted: 2000-11-01

Name: ultra quick-flash plus long-flash

Definition:

29 DD Name: HYDRO Code: LITCHR_29 Date accepted: 2000-11-01

Name: fixed and alternating flashing

Definition:

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)

7 DD Name: HYDRO Code: LITVIS_7 Date accepted: 2000-11-01

Name: obscured

Definition: said of the arc of a light sector designated by its limiting bearings in which the light is not visible

from seaward. (IHO Dictionary, S-32, 5th Edition, 3492)

8 DD Name: HYDRO Code: LITVIS_8 Date accepted: 2000-11-01

Name: partially obscured

Definition: this value specifies that parts of the sector are obscured.

DD Name: HYDRO Code: LITVIS_3 Date accepted: 2000-11-01

Name: faint

Definition: a decrease in the apparent intensity of a light which may occur in the case of partial

obstructions.

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.

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: I

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

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 object.

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

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)

6 DD Name: HYDRO Code: NATSUR_6 Date accepted: 2000-11-01

Name: gravel

Value Data Dictionary (DD) Reference

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 4.0-64.0 mm); small stones made smooth and round by being rolled in water.

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

Name: cobbles

Definition: (particles of 64.0-256.0 mm); stones worn round and smooth by water and used for paving.

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 calcareous skeletons of many tribes of marine polyps. (IHO Dictionary, S-32, 5th Edition,

1061)

17 DD Name: HYDRO Code: NATSUR_17 Date accepted: 2000-11-01

Name: shells

Definition: exoskeletons of various water dwelling animals. (adapted from IHO Dictionary, S-32, 5th

Edition, 4680)

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)

IENC FC 26.DOCX 347

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)

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

Name: unsurfaced

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

material.

IENC FC 26.DOCX 348

Value	Data Diction	nary (DD) Ref	erence			
6	DD Name:	HYDRO	Code:	NATCON_6	Date accepted:	2000-11-01
	Name:	wooden				
	Definition:	constructed t	from wo	od.		
7	DD Name:	HYDRO	Code:	NATCON_7	Date accepted:	2000-11-01
	Name:	metal				
	Definition:	constructed t	from me	tal.		
8	DD Name:	HYDRO	Code:	NATCON_8	Date accepted:	2000-11-01
	Name:	glass reinford	ced plas	tic (GRP)		
	Definition:	constructed t	from a p	lastic material strength	nened with fibres o	of glass.
9	DD Name:	HYDRO	Code:	NATCON_9	Date accepted:	2000-11-01
	Name:	painted				
	Definition:	the application	on of pai	nt to some other cons	truction or natural	feature.

Attribute	Nature of surface - qualifying terms
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Acronym: NATQUA Code: 114

Use Type: F
Value Type: L

Data Dictionary (DD) Reference:

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

Definition: Nature of surface - qualifying terms

Enumerations:

Value	Data Dictio	nary (DD) Ref	erence			
1	DD Name:	HYDRO	Code:	NATQUA_1	Date accepted:	2000-11-01
	Name:	Fine				
	Definition:	falls within th	e smalle	est size continuum for	a particular nature	e of surface term
2	DD Name:	HYDRO	Code:	NATQUA_2	Date accepted:	2000-11-01
	Name:	Medium				
	Definition:	falls within th	e mode	rate size continuum fo	r a particular natu	re of surface term
3	DD Name:	HYDRO	Code:	NATQUA_3	Date accepted:	2000-11-01
	Name:	Coarse				
	Definition:	falls within th	e larges	st size continuum for a	particular nature	of surface term
4	DD Name:	HYDRO	Code:	NATQUA_4	Date accepted:	2000-11-01
	Name:	Broken				
	Definition:	fractured or i	n pieces	S		

Attribute	Object class definition	•
, ttti io ato		ı

Acronym: CLSDEF Code: 18027

Use Type: F Value Type: T

Data Dictionary (DD) Reference:

DD Name: HYDRO Date accepted: 2015-01-01

Definition: Specifies the defining characteristics of a 'new object'.

Attribute	Object class name		
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Acronym: CLSNAM Code: 18028

Use Type: F Value Type: T

Data Dictionary (DD) Reference:

DD Name: HYDRO Date accepted: 2015-01-01

Definition: Specifies the descriptive name of a 'new object' feature object class.

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: 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 Orientation

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	
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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 Perio	c date start
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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
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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	Pilot district	
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Acronym: PILDST Code: 121

Use Type: F Value Type: T

Data Dictionary (DD) Reference:

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

Definition: The area within which a particular pilotage service operates.

Attribute	Pilot district in national language	
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Acronym: NPLDST Code: 302

Use Type: F Value Type: T

Data Dictionary (DD) Reference:

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

Definition: Pilot district (c...): string of national language characters

Attribute	Positional Accuracy
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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) DD Name: HYDRO Code: PRODCT 4 Date accepted: 4 2000-11-01 Name: stone Definition: a general term for rock fragments. (IHO Dictionary, S-32, 5th Edition, 5059) 5 Code: PRODCT 5 DD Name: HYDRO Date accepted: 2000-11-01 Name: coal Definition: a hard black mineral that is burned as fuel. (adapted from the Oxford Minidictionary, Third Edition)

Value	Data Dictio	nary (DD) Ref	ference			
6	DD Name:	HYDRO	Code:	PRODCT_6	Date accepted:	2000-11-01
	Name:	ore				
	Definition: Third Edition		or miner	al from which metal is	obtained. (adapte	ed form the Oxford Minidictionary,
7	DD Name:	HYDRO	Code:	PRODCT_7	Date accepted:	2000-11-01
	Name:	chemicals				
	Definition: Minidiction	any substan ary, Third Edit		ned by or used in a ch	emical process. (a	adapted from the Oxford
8	DD Name:	HYDRO	Code:	PRODCT_8	Date accepted:	2000-11-01
	Name:	drinking wate	er			
	Definition: Edition)	water that is	suitable	e for human consumpti	ion. (adapted from	the Oxford Minidictionary, Third
14	DD Name:	HYDRO	Code:	PRODCT_14	Date accepted:	2000-11-01
	Name:	sand				
	Definition:	tiny grains o	f crushe	d or worn rock. (adapt	ed from the Oxfor	d Minidictionary, Third Edition)
15	DD Name:	HYDRO	Code:	PRODCT_15	Date accepted:	2000-11-01
	Name:	timber				
	Definition: Edition)	wood prepai	red for u	se in building or carpe	entry. (adapted from	m the Oxford Minidictionary, Third
17	DD Name:	HYDRO	Code:	PRODCT_17	Date accepted:	2000-11-01
	Name:	scrap metal				
	Definition: Edition)	discarded m	etal suit	able for being reproce	ssed. (adapted fro	om the Oxford Minidictionary, Third
21	DD Name:	HYDRO	Code:	PRODCT_21	Date accepted:	2000-11-01
	Name:	cement				
	Definition: New World	a substance Dictionary)	made o	f powdered lime and c	clay, mixed with wa	ater. (adapted from the Websters
22	DD Name:	HYDRO	Code:	PRODCT_22	Date accepted:	2000-11-01
	Name:	grain				
	Definition: (adapted fr			specially that of any coword World Dictionary)	ereal plant such a	s wheat, rice, corn, rye etc.

Value Data Dictionary (DD) Reference 18 DD Name: HYDRO Code: PRODCT_18 Date accepted: 2000-11-01 Name: liquified natural gas (LNG) Definition: a compressed gas consisting of flammable light hydrocarbons and derived from natural gas. 19 DD Name: HYDRO Code: PRODCT_19 Date accepted: 2000-11-01 Name: liquified petroleum gas (LPG) Definition: a compressed gas consisting of flammable light hydrocarbons and derived from petroleum. (adapted from Websters Third New)

Attribute Quality of position

Acronym: QUAPOS Code: 402

Use Type: F,S

Value Type: E

Data Dictionary (DD) Reference:

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

Definition:

Enumerations:

Value Data Dictionary (DD) Reference

4 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

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.

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.

3 DD Name: HYDRO Code: QUASOU_3 Date accepted: 2000-11-01

Name: doubtful sounding

Definition: a depth that may be less than indicated. (adapted from IHO Dictionary, S-32, 5th Edition, 4840)

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

Name: unreliable sounding

Definition: a depth that is considered to be an unreliable value.

6 DD Name: HYDRO Code: QUASOU_6 Date accepted: 2000-11-01

Name: least depth known

Definition: the shoalest depth over a feature is of known value. (adapted from IHO Dictionary, S-32, 5th

Edition, 2705)

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

Name: least depth unknown, safe clearance at depth shown

IENC FC 26.DOCX 366

Value Data Dictionary (DD) Reference

Definition: the least depth over a feature is unknown, but there is considered to be safe clearance at this

depth.

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.

9 DD Name: HYDRO Code: QUASOU_9 Date accepted: 2000-11-01

Name: value reported (not confirmed)

Definition: depth value obtained from a report, which it has not been possible to confirm.

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
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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	Reference year for magnetic variation	
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Acronym: RYRMGV Code: 130

Use Type: F

Value Type: I

Data Dictionary (DD) Reference:

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

Definition: The reference calendar year for magnetic variation values.

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 Dictio	nary (DD) Ref	erence			
1	DD Name:	HYDRO	Code:	RESTRN_1	Date accepted:	2000-11-01
	Name:	anchoring pr	ohibited			
	Definition:	an area with	in which	anchoring is not perm	nitted.	
2	DD Name:	HYDRO	Code:	RESTRN_2	Date accepted:	2000-11-01
	Name:	anchoring re	stricted			
	Definition: accordance	a specified a with certain s			e authority, within v	which anchoring is restricted in
3	DD Name:	HYDRO	Code:	RESTRN_3	Date accepted:	2000-11-01
	Name:	fishing prohib	oited			
	Definition:	an area with	in which	fishing is not permitte	d.	
4	DD Name:	HYDRO	Code:	RESTRN_4	Date accepted:	2000-11-01
	Name:	fishing restric	cted			
	Definition: accordance	a specified a with certain s		• • • • •	e authority, within v	which fishing is restricted in
5	DD Name:	HYDRO	Code:	RESTRN_5	Date accepted:	2000-11-01
	Name:	trawling proh	ibited			
	Definition:	an area with	in which	trawling is not permitt	ed.	
6	DD Name:	HYDRO	Code:	RESTRN_6	Date accepted:	2000-11-01

Value Data Dictionary (DD) Reference

Name: trawling restricted

Definition: a specified area designated by appropriate authority, within which trawling is restricted in

accordance with certain specified conditions.

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

Name: entry prohibited

Definition: an area within which navigation and/or anchoring is prohibited.

8 DD Name: HYDRO Code: RESTRN_8 Date accepted: 2000-11-01

Name: entry restricted

Definition: a specified area designated by appropriate authority, within which navigation is restricted in

accordance with certain specified conditions.

9 DD Name: HYDRO Code: RESTRN_9 Date accepted: 2000-11-01

Name: dredging prohibited

Definition: an area within which dredging is not permitted.

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

Name: dredging restricted

Definition: a specified area designated by appropriate authority, within which dredging is restricted in

accordance with certain specified conditions.

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

Name: diving prohibited

Definition: an area within which diving is not permitted.

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

Name: diving restricted

Definition: a specified area designated by appropriate authority, within which diving is restricted in

accordance with certain specified conditions.

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

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: HYDRO Code: RESTRN 14 Date accepted: 2000-11-01

Name: area to be avoided

Definition: an IMO designated area to be avoided, defined as a routeing measure.

IENC FC 26.DOCX 371

Value	Data Dictio	onary (DD) Refe	erence			
15	DD Name:	HYDRO	Code:	RESTRN_15	Date accepted:	2000-11-01
	Name:	construction p	orohibite	ed		
	Definition:	the erection o	of perma	anent or temporary fix	ed structures or a	tificial islands is prohibited.
16	DD Name:	HYDRO	Code:	RESTRN_16	Date accepted:	2000-11-01
	Name:	discharging p	rohibite	d		
	Definition:	an area withir	n which	discharging or dumping	ng is prohibited	
17	DD Name:	HYDRO	Code:	RESTRN_17	Date accepted:	2000-11-01
	Name:	discharging re	estricted	d		
	Definition: restricted in	•		gnated by an appropricified conditions.	iate authority, with	in which discharging or dumping is
18	DD Name:	HYDRO	Code:	RESTRN_18	Date accepted:	2000-11-01
	Name:	industrial or m	nineral e	exploration/developme	ent prohibited	
	Definition:	an area withir	n which	industrial or mineral e	exploration and de	velopment are prohibited.
19	DD Name:	HYDRO	Code:	RESTRN_19	Date accepted:	2000-11-01
	Name:	industrial or m	nineral e	exploration/developme	ent restricted	
	Definition: exploration	•		gnated by an approprestricted in accordance		in which industrial or mineral cified conditions.
20	DD Name:	HYDRO	Code:	RESTRN_20	Date accepted:	2000-11-01
	Name:	drilling prohibi	ited			
	Definition:	an area withir	n which	excavating a hole on	the sea-bottom wi	th a drill is prohibited.
21	DD Name:	HYDRO	Code:	RESTRN_21	Date accepted:	2000-11-01
	Name:	drilling restrict	ted			
	Definition: sea-bottom	•		gnated by an appropri d in accordance with c	•	in which excavating a hole on the onditions.
22	DD Name:	HYDRO	Code:	RESTRN_22	Date accepted:	2000-11-01
	Name:	removal of his	storical	artifacts prohibited		
	Definition:	an area withir	n which	the removal of historic	cal artifacts is prol	nibited.
23	DD Name:	HYDRO	Code:	RESTRN_23	Date accepted:	2000-11-01
	Name:	cargo tranship	oment (lightering) prohibited		
	Definition:	an area in wh	ich car	go transhipment (lighte	ering) is prohibited	I.

Value	Data Diction	nary (DD) Ref	erence			
24	DD Name:	HYDRO	Code:	RESTRN_24	Date accepted:	2000-11-01
	Name:	dragging pro	hibited			
	Definition:	an area in w	hich the	dragging of anything a	along the bottom,	e.g. bottom trawling, is prohibited.
25	DD Name:	HYDRO	Code:	RESTRN_25	Date accepted:	2000-11-01
	Name:	stopping prol	hibited			
	Definition:	an area in w	hich a ve	essel is prohibited fron	n stopping.	
26	DD Name:	HYDRO	Code:	RESTRN_26	Date accepted:	2000-11-01
	Name:	landing prohi	bited			
	Definition:	an area in w	hich land	ding is prohibited.		
27	DD Name:	HYDRO	Code:	RESTRN_27	Date accepted:	2000-11-01
	Name:	speed restric	ted			
	Definition:	an area with	in which	speed is restricted.		
38	DD Name:	IENC	Code:	restrn_38	Date accepted:	2000-11-01
	Name:	use of spuds	prohibit	ed		
	Definition:	The use of a	nchorino	g spuds (telescopic pil	es) is prohibited	

Attribute Scale minimum

Acronym: SCAMIN Code: 133

Use Type: F

Value Type: I

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:

Data Dictionary (DD) Reference:

F

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).

Attribute Signal frequency

Acronym: SIGFRQ Code: 139

Use Type: F

Value Type: I

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.

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	Signal sequence	
-----------	-----------------	--

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	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 Source date

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

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	Status		
Acronym:	STATUS	Code:	149
Use Type:	F		
Value Type:	L		

Data Dictionary (DD) Reference:

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

Definition: The condition of an object at a given instant in time.

Enumerations:

Value	Data Dictio	onary (DD) Reference					
2	DD Name:	HYDRO	Code:	STATUS_2	Date accepted:	2000-11-01	
	Name:	occasional					
	Definition:	acting on sp	ecial oc	casions; happening irr	egularly. (The Cor	ncise Oxford Dictionary, 7th Edition)	
3	DD Name:	HYDRO	Code:	STATUS_3	Date accepted:	2000-11-01	
	Name:	recommende	ed				
	Definition:	presented as	s worthy	of confidence, accept	ance, use, etc. (T	he Macquarie Dictionary, 1988)	
4	DD Name:	HYDRO	Code:	STATUS_4	Date accepted:	2000-11-01	
	Name:	not in use					
	Definition:	no longer us	ed for th	ne purpose intended; o	disused.		
8	DD Name:	HYDRO	Code:	STATUS_8	Date accepted:	2000-11-01	
	Name:	private					
	Definition:	not in public	owners	hip or operation.			
9	DD Name:	HYDRO	Code:	STATUS_9	Date accepted:	2000-11-01	
	Name:	mandatory					
	Definition:	compulsory;	enforce	d. (The Concise Oxfor	rd Dictionary, 7th I	Edition)	
12	DD Name:	HYDRO	Code:	STATUS 12	Date accepted:	2000-11-01	
14	Name:	illuminated	Ooue.	51A100_12	Daio accepied.	2000-11-01	
	Definition:		hte etrir	a lights etc			
		in by hooding	nio, sui	- iigiita, 6to.			

Value	Data Dictio	nary (DD) Ref	erence			
14	DD Name:	HYDRO	Code:	STATUS_14	Date accepted:	2000-11-01
	Name:	public				
	Definition: private use			le to, used or shared l ew Shorter Oxford En	•	as a whole and not restricted to 993)
16	DD Name:	HYDRO	Code:	STATUS_16	Date accepted:	2000-11-01
	Name:	watched				
	Definition: change. (ad			d over a period of time Shorter Oxford Englis		to be aware of any movement or
17	DD Name:	HYDRO	Code:	STATUS_17	Date accepted:	2000-11-01
	Name:	un-watched				
	Definition: (adapted fr	-		operation, without any 32, 5th Edition, 2814)	permanently-stat	ioned personnel to superintend it.
18	DD Name:	HYDRO	Code:	STATUS_18	Date accepted:	2000-11-01
	Name:	existence do	ubtful			
	Definition:	an object tha	it has be	een reported but has n	ot been definitely	determined to exist.
7	DD Name:	HYDRO	Code:	STATUS_7	Date accepted:	2000-11-01
	Name:	temporary				
	Definition:	meant to las	t only fo	r a time. (The Concise	Oxford Dictionary	/)
1	DD Name:	HYDRO	Code:	STATUS_1	Date accepted:	2000-11-01
	Name:	permanent				
	Definition:	intended to l	ast or fu	nction indefinitely		
5	DD Name:	HYDRO	Code:	STATUS_5	Date accepted:	2000-11-01
	Name:	periodic/inter	mittent			
	Definition:	recurring at i	ntervals			
6	DD Name:	HYDRO	Code:	STATUS 6	Date accepted:	2000-11-01
	Name:	reserved		_	·	
	Definition:	set apart for	some sp	pecific use.		
11	DD Name:	HYDRO	Code:	STATUS_11	Date accepted:	2000-11-01
	Name:	extinguished	Code.	517(100_11	Date accepted.	2000 11 01
	Definition:	•				

Value	Data Dictionary (DD) Reference							
13	DD Name:	HYDRO historic	Code:	STATUS_13	Date accepted:	2000-11-01		
	Definition:	famous in his	story; of	historical interest				
15	DD Name:	HYDRO	Code:	STATUS_15	Date accepted:	2000-11-01		
	Name:	synchronized	l					
	Definition:	occur at a time, coincide in point of time, be contemporary or simultaneous						

Attribute

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.

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.

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

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	Symbol instruction	
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Acronym: SYMINS Code: 18029

Use Type: F
Value Type: T

Data Dictionary (DD) Reference:

DD Name: HYDRO Date accepted: 2015-01-01

Definition: This specifies the S-52 Presentation Library symbol instruction to be adopted in ECDIS for the new object

class (as specified in the S-52 Symbol Library - Addendum to S-52 Presentation Library).

Edition 2.6.0 IENC Feature Catalogue

Attribute Technique of sounding measurement

TECSOU Code: 156 Acronym:

Use Type:

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)

DD Name: HYDRO 4 Code: TECSOU_4 Date accepted: 2000-11-01

> Name: found by diver

Definition: the depth was determined by a person skilled in the practice of diving. (adapted from IHO

Dictionary, S-32, 1422)

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

> found by lead-line Name:

IENC FC 26.DOCX 393

Value Data Dictionary (DD) Reference

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)

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

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]

DD Name: HYDRO Code: TECSOU_15 Date accepted: 2020-04-21

IENC FC 26.DOCX 394

Value Data Dictionary (DD) Reference

Name: found by LIDAR

Definition: The depth was measured 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.

Attribute	Textual description		
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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	Textual description in national language
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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.

Edition 2.6.0 IENC Feature Catalogue

Attribute Topmark/daymark shape Acronym: **TOPSHP** Code: 171

Use Type:

Value Type:

Data Dictionary (DD) Reference:

Ε

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

Definition:

Enumerations:

Value

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

> Name: cone, point up

Data Dictionary (DD) Reference

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).

DD Name: HYDRO 4 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)

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

IENC FC 26.DOCX 398

Value Data Dictionary (DD) Reference

International Association of Lighthouse Authorities - IALA topmarks (lateral).

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.

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

Name: rhombus (diamond)

Definition: a plane figure having four equal sides and equal opposite angles (two acute and two obtuse); an oblique equilateral parallelogram. (The New Shorter Oxford English Dictionary, 1993, vol 2)

13 DD Name: HYDRO 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

Value	Data Dictio	nary (DD) Re	ference			
14	DD Name:	HYDRO	Code:	TOPSHP_14	Date accepted:	2000-11-01
	Name:	2 cones (poi	nts dowr	nward)		
	Definition:	2 cones, one	e above	the other, with their th	eir vertices pointir	ng down
15	DD Name:	HYDRO	Code:	TOPSHP_15	Date accepted:	2000-11-01
	Name:	besom, poin	t up (bro	om or perch)		
	Definition:	a bundle of	rods or t	wigs. (The New Shorte	er Oxford English	Dictionary. 1993. vol 1)
16	DD Name:	HYDRO	Code:	TOPSHP_16	Date accepted:	2000-11-01
	Name:	besom, poin	t down (l	broom or perch)		
	Definition:	a bundle of	rods or t	wigs. (The New Shorte	er Oxford English	Dictionary. 1993. vol 1)
17	DD Name:	HYDRO	Code:	TOPSHP_17	Date accepted:	2000-11-01
	Name:	flag				
	Definition:	a flag moun	ted on a	short pole.		
18	DD Name:	HYDRO	Code:	TOPSHP_18	Date accepted:	2000-11-01
	Name:	sphere over	rhombus	3		
	Definition:	A sphere loc	cated ab	ove a rhombus.		
19	DD Name:	HYDRO	Code:	TOPSHP_19	Date accepted:	2000-11-01
	Name:	square				
	Definition: English Did	a plane figui ctionary. 1993		our right angles and fo	ur equal straight s	ides (The New Shorter Oxford
20	DD Name:	HYDRO	Code:	TOPSHP_20	Date accepted:	2000-11-01
	Name:	rectangle, ho	orizontal			
	•		e two lon	• •	~	opposite sides being parallel and tally (The New Shorter Oxford
21	DD Name:	HYDRO	Code:	TOPSHP_21	Date accepted:	2000-11-01
	Name:	rectangle, ve	ertical			
	•			• •	-	opposite sides being parallel and ly (The New Shorter Oxford English
22	DD Name:	HYDRO	Code:	TOPSHP_22	Date accepted:	2000-11-01
	Name:	trapezium, u	р			

Value	Data Dictio	nary (DD) Refe	erence			
		•		g one pair of opposite nglish Dictionary. 199	•	ch stands on its longer parallel
23	DD Name:	HYDRO	Code:	TOPSHP_23	Date accepted:	2000-11-01
	Name:	trapezium, do	own			
		•		g one pair of opposite nglish Dictionary. 199	•	ch stands on its shorter parallel
24	DD Name:	HYDRO	Code:	TOPSHP_24	Date accepted:	2000-11-01
	Name:	triangle, point	t up			
	Definition: Dictionary.	a figure havir 1993. vol 2)	ng three	angles and three side	es with point up. (N	New Shorter Oxford English
25	DD Name:	HYDRO	Code:	TOPSHP_25	Date accepted:	2000-11-01
	Name:	triangle, point	t down			
		a figure havir 1993. vol 2)	ng three	angles and three side	es with point down	. (New Shorter Oxford English
26	DD Name:	HYDRO	Code:	TOPSHP_26	Date accepted:	2000-11-01
	Name:	circle				
	Definition: (The New S		•	ne figure whose circu n Dictionary. 1993. vol	•	where equidistant from its centre.
27	DD Name:	HYDRO	Code:	TOPSHP_27	Date accepted:	2000-11-01
	Name:	two upright cr	rosses ((one over the other)		
	Definition:	two upright c	rosses,	generally vertically dis	sposed one above	the other.
28	DD Name:	HYDRO	Code:	TOPSHP_28	Date accepted:	2000-11-01
	Name:	T-shape				
	Definition:	having a sha	pe like t	the capital letter T.		
29	DD Name:	HYDRO	Code:	TOPSHP_29	Date accepted:	2000-11-01
	Name:	triangle pointi	ing up c	over a circle		
	Definition:	a triangle, ve	rtex up	permost, located abov	e a circle.	
30	DD Name:	HYDRO	Code:	TOPSHP_30	Date accepted:	2000-11-01
	Name:	upright cross	over a	circle		
	Definition:	an upright cro	oss loca	ated above a circle.		
31	DD Name:	HYDRO	Code:	TOPSHP_31	Date accepted:	2000-11-01

Value Data Dictionary (DD) Reference

Name: rhombus over a circle

Definition: a rhombus located above a circle.

32 DD Name: HYDRO Code: TOPSHP_32 Date accepted: 2000-11-01

Name: circle over a triangle pointing up

Definition: a circle located over a triangle, vertex uppermost.

DD Name: HYDRO Code: TOPSHP_33 Date accepted: 2000-11-01

Name: other shape (see 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 Diction	nary (DD) Ref	erence			
1	DD Name:	HYDRO	Code:	TRAFIC_1	Date accepted:	2000-11-01
	Name:	inbound				
	Definition:	traffic flow in	a gener	al direction toward a p	ort or similar dest	ination.
2	DD Name:	HYDRO	Code:	TRAFIC_2	Date accepted:	2000-11-01
	Name:	outbound				
	Definition:	traffic flow in	a gener	al direction away from	a port or similar p	oint of origin.
3	DD Name:	HYDRO	Code:	TRAFIC_3	Date accepted:	2000-11-01
	Name:	one-way				
	Definition:	traffic flow in	one ger	neral direction only.		
4	DD Name:	HYDRO	Code:	TRAFIC_4	Date accepted:	2000-11-01
	Name:	two-way				
	Definition:	traffic flow in	two gen	nerally opposite direction	ons.	

Attribute	Value of annual change in magnetic variation
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Acronym: VALACM Code: 173

Use Type: F
Value Type: F

Data Dictionary (DD) Reference:

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

Definition: The annual change in magnetic variation values.

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 magnetic variation
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Acronym: VALMAG Code: 176

Use Type: F
Value Type: F

Data Dictionary (DD) Reference:

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

Definition: The magnetic variation value.

Attribute	Value of maximum range
-----------	------------------------

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 nominal range
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Acronym: VALNMR Code: 178

Use Type: F
Value Type: F

Data Dictionary (DD) Reference:

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

Definition: The nominal range at which an object can be seen or a signal detected

Attribute

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 Accuracy		
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Acronym: VERACC Code: 180

Use Type: F
Value Type: F

Data Dictionary (DD) Reference:

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

Definition: The one-dimensional error. The error is assumed to be positive and negative. The plus/minus character

shall not be encoded.

Attribute	Vertical clearance	
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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, 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, 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 Dictio	nary (DD) Ref	ference			
4	DD Name:	HYDRO	Code:	VERDAT_4	Date accepted:	2001-05-31
	Name:	Lowest low v	vater			
	Definition:	an arbitrary	level cor	nforming to the lowest	tide observed at a	a place, or some what lower.
24	DD Name:	HYDRO	Code:	VERDAT_24	Date accepted:	2000-11-01
	Name:	Local datum				
		an arbitrary by this authori		efined by a local harbo	our authority, from	which levels and tidal heights are
23	DD Name:	HYDRO	Code:	VERDAT_23	Date accepted:	2000-11-01
	Name:	Lowest astro	nomical	tide		
	Definition: conditions	` '				under average meterological Dictionary, S-32, 5th Edition, 2936)
30	DD Name:	HYDRO	Code:	VERDAT_30	Date accepted:	2000-11-01
	Name:	Highest astro	onomica	l tide		
	Definition:	` '	•		•	ur under average meteorological Dictionary, S-32, 5th Edition, 2244).

Attribute	Vertical length
-----------	-----------------

Acronym: VERLEN Code: 186

Use Type: F
Value Type: F

Data Dictionary (DD) Reference:

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

Definition: Vertical length

Edition 2.6.0 IENC Feature Catalogue

Attribute Water level effect

Acronym: WATLEV Code: 187

Use Type: 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: 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.

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

> 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

Definition: flush with, or washed by the waves at low water under average meteorological conditions.

(adapted from IHO Dictionary, S-32, 5th Edition, 308)

7 DD Name: HYDRO Code: WATLEV_7 Date accepted: 2000-11-01

IENC FC 26.DOCX 416

Value Data Dictionary (DD) Reference

Name: floating

Definition: resting or moving on the surface of a liquid without sinking (Concise Oxford Dictionary)

Attribute	Additional mark	
Acronym:	addmrk	Code: 17050
Use Tyne:	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 Dictio	nary (DD) Reference				
1	DD Name:	IENC	Code:	addmrk_1	Date accepted:	2001-05-31
	Name:	top (board)				
	Definition:	a rectangula	r board	at the top of the main	sign	
2	DD Name:	IENC	Code:	addmrk_2	Date accepted:	2001-05-31
	Name:	bottom (boar	d)			
	Definition:	a rectangula	r board	at the bottom of the m	ain sign	
3	DD Name:	IENC	Code:	addmrk_3	Date accepted:	2001-05-31
	Name:	right (triangle	e to the r	ight)		
	Definition:	a triangular b	ooard at	the right side of the m	nain sign	
4	DD Name:	IENC	Code:	addmrk_4	Date accepted:	2001-05-31
	Name:	left (triangle t	to the le	ft)		
	Definition:	a triangular b	ooard at	the left side of the ma	in sign	
5	DD Name:	IENC	Code:	addmrk_5	Date accepted:	2001-05-31
	Name:	bottom (trian	gle to th	e bottom)		
	Definition:	a triangular b	ooard at	the bottom of the mai	n sign	

Attribute	Allowed consumption	
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Acronym: allcon Code: 18033

Use Type: F
Value Type: I

Data Dictionary (DD) Reference:

DD Name: IENC Date accepted: 2014-11-26

Definition: The maximum allowed power that may be used by the vessel

Attribute	Amount of amperage
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Acronym: amoamp Code: 18032

Use Type: F
Value Type: I

Data Dictionary (DD) Reference:

DD Name: IENC Date accepted: 2014-11-26

Definition: The maximum electric amperage possible

Attribute	Assemblies of ship (excluding)	
Acronym:	lc_ase	Code: 18015
Use Type:	F	
Value Type:	L	

Data Dictionary (DD) Reference:

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

Definition: 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 tov	ved con	voy 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			
	Name:	rigid convoy							
	Definition:	efinition: a pushed convoy or breasted up formation							

Value Data Dictionary (DD) Reference

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 considered as rigid

9 DD Name: IENC Code: lc_ase_9 Date accepted: 2001-05-31

Name: breasted up formation

Definition: an assembly of craft coupled rigidly side by side, none of which is positioned in front of the craft

propelling the assembly

10 DD Name: IENC Code: lc_ase_10 Date accepted: 2001-05-31

Name: towed convoy

Definition: an assembly of one or more craft, floating establishments or floating installations towed by one

or more self-propelled craft forming part of the convoy

Attribute	Assemblies of ship (including)		
Acronym:	lc_asi	Code:	18014
Use Type:	F		
Value Type:	L		

Data Dictionary (DD) Reference:

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

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

Enumerations:

Value	Data Dictionary (DD) Reference								
1	DD Name:	IENC all types	Code:	lc_asi_1	Date accepted:	2001-05-31			
	Definition:								
2	DD Name:	IENC	Code:	lc_asi_2	Date accepted:	2001-05-31			
	Name:	other							
	Definition:	IENIO	0 1		D	0004.05.04			
3	DD Name:	single vesse		lc_asi_3	Date accepted:	2001-05-31			
	Definition:	3							
5	DD Name:	IENC	Code:	lc_asi_5	Date accepted:	2001-05-31			
	Name:	convoy							
	Definition:	a rigid or tov	ved conv	oy of craft					
6	DD Name:	IENC	Code:	lc_asi_6	Date accepted:	2001-05-31			
	Name:	formation							
	Definition:	ion: the manner in which a convoy is assembled							
7	DD Name:	IENC	Code:	lc_asi_7	Date accepted:	2001-05-31			
	Name:	rigid convoy							
	Definition:	ition: a pushed convoy or breasted up formation							

Value Data Dictionary (DD) Reference

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

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

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 Bank of the waterway

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

Attribute

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

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

DD Name: IENC

6

Enumerations:

Value	Data Diction	Dictionary (DD) Reference							
1	DD Name:	IENC	Code:	catach_1	Date accepted:	2001-05-31			
	Name:	unrestricted anchorage							
	Definition:	an area in w	hich ves	sels anchor or may ar	nchor. (IHO Diction	nary, S-32, 5th Edition, 130)			
2	DD Name:	IENC	Code:	catach_2	Date accepted:	2001-05-31			
	Name:	deep water a	deep water anchorage						
	Definition:	an area in w	hich ves	sels of deep draught a	anchor or may and	chor.			
3	DD Name:	IENC	Code:	catach_3	Date accepted:	2001-05-31			
	Name:	tanker anchorage							
	Definition:	an area in w	hich tan	kers anchor or may an	ichor.				
4	DD Name:	IENC	Code:	catach_4	Date accepted:	2001-05-31			
	Name:	explosives anchorage							
	Definition: 5th Edition,	1 33 31 (-), -,							
5	DD Name:	IENC	Code:	catach_5	Date accepted:	2001-05-31			
	Name:	quarantine anchorage							
	Definition: 5th Edition,								

IENC_FC_26.DOCX 428

Date accepted:

2001-05-31

Code: catach_6

Value Data Dictionary (DD) Reference

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

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

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 whe	re vesse	els may berth for loadi	ng cargo.			
2	DD Name:	IENC	Code:	catbrt_2	Date accepted:	2001-05-31		
	Name:	unloading						
	Definition:	A place whe	re vesse	els may berth for unloa	ading cargo.			
3	DD Name:	IENC	Code:	catbrt_3	Date accepted:	2001-05-31		
	Name:	overnight accommodation						
	Definition:	Berths that a	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 : an place where pushing-navigation vessels may berth.						
	Definition:							
5	DD Name:	IENC	Code:	catbrt_5	Date accepted:	2001-05-31		
	Name:	berth for other vessels than pushing-navigation vessels						
	Definition:	an place wh	ere othe	r vessels than pushinເ	g-navigation vesse	els 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.						

Value Data Dictionary (DD) Reference

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.

9 DD Name: IENC Code: catbrt 9 Date accepted: 2012-12-19

Name: berth for passenger vessels

Definition:

10 DD Name: IENC Code: catbrt_10 Date accepted: 2023-11-22

Name: waiting berth

Definition: a berth that is dedicated for vessels waiting for the opening of a bridge, lockage or the use of other infrastructure. When a berth is dedicated to waiting, but can be used for resting with permission of the operator of the infrastructure, it is also a waiting berth.

Attribute	Category of bunker station

Acronym: catbun Code: 17067

Use Type: F
Value Type: L

Data Dictionary (DD) Reference:

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

Definition: Category of bunker station

Enumerations:

Value	Data Dictio	nary (DD) Ref	ference			
1	DD Name:	IENC	Code:	catbun_1	Date accepted:	2001-05-31
	Name:	diesel oil		_		
	Definition:	diesel oil ava	ailable			
2	DD Name:	IENC	Code:	catbun_2	Date accepted:	2001-05-31
	Name:	water				
	Definition:	water availa	ble			
3	DD Name:	IENC	Code:	catbun_3	Date accepted:	2001-05-31
	Name:	ballast				
	Definition:	ballast availa	able			
4	DD Name:	IENC	Code:	catbun_4	Date accepted:	2001-05-31
	Name:	power				
	Definition:	power suppl	y availal	ole		
5	DD Name:	IENC	Code:	catbun 5	Date accepted:	2021-04-01
	Name:	compressed		_	·	
	Definition:	·		_	ring	
	Delimition.	compressed	riyuroge	en available for bunke	illig	
6	DD Name:	IENC	Code:	catbun_6	Date accepted:	2024-04-01
	Name:	liquefied hyd	lrogen b	unkering		
	Definition:	liquefied hyd	drogen a	vailable for bunkering		

Value Data Dictionary (DD) Reference

7 DD Name: IENC Code: catbun_7 Date accepted: 2024-04-01

Name: methanol bunkering

Definition: methanol available for bunkering

8 DD Name: IENC Code: catbun_8 Date accepted: 2024-04-01

Name: ammonia bunkering

Definition: ammonia available for bunkering

Attribute	Category of cable		
Acronym:	catcbl	Code:	17101

Use Type: F
Value Type: E

Data Dictionary (DD) Reference:

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

Definition: Category of cable

Enumerations:

Value	Data Dictio	nary (DD) Re	ference			
1	DD Name:	IENC	Code:	catcbl_1	Date accepted:	2001-05-31
	Name:	power line				
	Definition:	a cable used	d for the	supply of electricity.		
3	DD Name:	IENC	Code:	catcbl_3	Date accepted:	2001-05-31
	Name:	transmission	line			
	Definition: generally n	•		l cables usually suppo ormal power lines.	rted by steel lattic	e towers. Such features are
4	DD Name:	IENC	Code:	catcbl_4	Date accepted:	2001-05-31
	Name:	telephone				
	Definition:	a cable used	d for the	transmission of teleph	one signals.	
5	DD Name:	IENC	Code:	catcbl_5	Date accepted:	2001-05-31
	Name:	telegraph				
	Definition:	a cable used	d for the	transmission of telegr	aph signals.	
6	DD Name:	IENC	Code:	catcbl_6	Date accepted:	2001-05-31
	Name:	mooring cab	le/chain			
	Definition:	a cable or cl	nain use	d to secure a mooring	buoy or other floa	iting structure.
7	DD Name:	IENC	Code:	catcbl_7	Date accepted:	2001-05-31
	Name:	ferry cable				

Value Data Dictionary (DD) Reference

Definition: a cable where a cable ferry is connected to

Attribute	Category of cargo (excluding)	
Acronym:	lc_cce	Code: 18017
Use Type:	F	
Value Type:	L	

Data Dictionary (DD) Reference:

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

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

Enumerations:

Malaa	Data Distin	(DD) D				
Value	Data Dictio	nary (DD) Ref	erence			
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 ho	omogen	ous cargo poured loos	e in a certain spac	ce 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:	, 0				
		.=				
6	DD Name:		Code:	lc_cce_6	Date accepted:	2001-05-31
	Name:	liquid cargo				
	Definition:					
7	DD Name:	IENC	Code:	lc_cce_7	Date accepted:	2001-05-31
	Name:	liquid cargo	(type N)			
	Definition:					

Value Data Dictionary (DD) Reference DD Name: IENC 8 Code: Ic_cce_8 Date accepted: 2001-05-31 Name: liquid cargo (type C) Definition: Code: Ic_cce_9 9 DD Name: IENC Date accepted: 2001-05-31 Name: gas Definition:

Attribute	Category of cargo (including)		
Acronym:	lc_cci	Code:	18016
Use Type:	F		
Value Type:	L		

Data Dictionary (DD) Reference:

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

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

Enumerations:

Value	Data Dictio	nary (DD) Ref	erence			
1	DD Name:	IENC all types	Code:	lc_cci_1	Date accepted:	2001-05-31
2	Definition: DD Name: Name:	IENC other	Code:	lc_cci_2	Date accepted:	2001-05-31
4	Definition: DD Name: Name:	bulk		lc_cci_4	Date accepted:	
5	DD Name:			ous cargo poured loos	e in a certain space Date accepted:	ce of a vessel e.g. oil or grain
6	Definition: DD Name: Name:	IENC liquid cargo	Code:	lc_cci_6	Date accepted:	2001-05-31
7	Definition: DD Name: Name: Definition:	IENC liquid cargo		lc_cci_7	Date accepted:	2001-05-31

2001-05-31

Data Dictionary (DD) Reference DD Name: IENC 8 Code: lc_cci_8 Date accepted:

> Name: liquid cargo (type C)

Definition:

Value

Code: lc_cci_9 9 DD Name: IENC Date accepted: 2001-05-31

> Name: gas

Definition:

Attribute Category of CEMT class

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 Dictio	nary (DD) Ref	erence			
1	DD Name:	IENC	Code:	catccl_1	Date accepted:	2001-05-31
	Name:	0 small vess	els and _l	pleasure craft		
	Definition:	designated f	or small	vessels and pleasure	crafts only	
2	DD Name:	IENC	Code:	catccl_2	Date accepted:	2001-05-31
	Name:	I peniche				
	Definition: river Elbe)	designated f	or barge	es of type "Péniche" (w	vest of river Elbe) o	or of type "Gross Finow" (east of
3	DD Name:	IENC	Code:	catccl_3	Date accepted:	2001-05-31
	Name:	II campine ba	arge			
	Definition: river Elbe)	designated f	or barge	es of type "Kempenaar	" (west of river Elb	e) or of type "BM-500" (east of
4	DD Name:	IENC	Code:	catccl_4	Date accepted:	2001-05-31
	Name:	III Dortmund	-Ems ba	rge		
	Definition: concerning	designated f	_		nigs" (west of rive	r Elbe) or of a similar type
5	DD Name:	IENC	Code:	catccl_5	Date accepted:	2001-05-31
	Name:	IV Rhine-He	rne barg	e		
	Definition:	designated f	or barge	es of type "Johann We	lker"	
6	DD Name:	IENC	Code:	catccl_6	Date accepted:	2001-05-31

Value Data Dictionary (DD) Reference

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: catcol 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: catcol 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: catcol 11 Date accepted: 2001-05-31

Name: No CEMT class

Definition:

12 DD Name: IENC Code: catcol 12 Date accepted: 2011-10-04

Name: VII 9-barge push-town unit

Definition:

Attribute	Category of checkpoint
-----------	------------------------

Acronym: catchp Code: 17010

Use Type: F
Value Type: L

Data Dictionary (DD) Reference:

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

Definition: 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.

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: MIB

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

IENC FC 26.DOCX 443

Value Data Dictionary (DD) Reference

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.

9 DD Name: IENC Code: catcom_9 Date accepted: 2011-12-09

Name: WLAN area

Definition: An area where free wireless network is available

Attribute	Category of exceptional structure	
Acronym:	catexs	Code: 17100

Use Type:

Value Type: Ε

Data Dictionary (DD) Reference:

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

Definition: Category of exceptional navigational structure

Enumerations:

Value	Data Diction	ata Dictionary (DD) Reference								
1	DD Name:	IENC	Code:	catexs_1	Date accepted:	2001-05-31				
	Name:	Lift-Lock								
	Definition:	A lock of whi	ch the lo	ock chamber itself is lif	ted vertically to lev	vel with the next waterway section				
2	DD Name:	IENC	Code:	catexs_2	Date accepted:	2001-05-31				
	Name:	Aqueduct								
		nition: A structure (similar to the ancient aqueducts), for conveying a canal over a river or hollow; more erly 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				

DD Name: IENC Code: catexs_4 Date accepted: 2001-05-31

Water slope lock (Pente d'Eau) Name:

Definition: In French "Pente d'Eau". A lock of which the lock chamber is formed by a sloping plane and moving gate, which is pushing a triangular section of water up along the slope to level with the next waterway section

5 DD Name: IENC Code: catexs_5 Date accepted: 2001-05-31

> Name: Other

Definition: other categories of an exceptional structure

Attribute Category of ferry

Acronym: catfry Code: 17007

Use Type: F
Value Type: E

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 frequency
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Acronym: catfrq Code: 18030

Use Type: F
Value Type: L

Data Dictionary (DD) Reference:

DD Name: IENC Date accepted: 2014-11-26

Definition: The electrical frequency provided by the power supply station

Enumerations:

Value Data Dictionary (DD) Reference

1 DD Name: IENC Code: catfrq_1 Date accepted: 2014-11-26

Name: 50Hz

Definition: 50 Hertz

2 DD Name: IENC Code: catfrq_2 Date accepted: 2014-11-26

Name: 60Hz

Definition: 60 Hertz

Attribute	Category of harbour area
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Acronym: cathbr Code: 17070

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 2001-05-31 Date accepted: Name: custom harbour Definition: A harbour that is administered by the customs. It may be a free harbour. 2 DD Name: IENC Code: cathbr_2 Date accepted: 2001-05-31 Name: port of refuge Definition: A harbour that can be used to find shelter for bad environmental conditions or where efforts to mitigate larger damage or threat(s) of damage to either the vessel, her crew or the environment can be rendered. 3 DD Name: IENC Code: cathbr 3 Date accepted: 2001-05-31 Name: yacht harbour/marina Definition: a harbour with facilities for small boats and yachts (IHO Dictionary, S-32, 5th Edition, 3095).

DD Name: IENC Code: cathbr_4 Date accepted: 4 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

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 Dictio	nary (DD) Reference								
1	DD Name:	IENC	Code:	cathaf_1	Date accepted:	2001-05-31				
	Name:	RoRo-termin	RoRo-terminal							
	Definition:	a terminal fo	a terminal for roll-on roll-off ferries.							
3	DD Name:	IENC	Code:	cathaf_3	Date accepted:	2001-05-31				
	Name:	ferry termina	I							
	Definition:	a terminal fo	r passer	nger and vehicle ferrie	es.					
4	DD Name:	IENC	Code:	cathaf_4	Date accepted:	2001-05-31				
	Name: fishing harbour									
	Definition:	a harbour w	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 c	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 termir	nal							
	Definition:	a terminal fo	a terminal for the bulk handling of liquid cargoes.							
8	DD Name:	IENC	Code:	cathaf 8	Date accepted:	2001-05-31				
J	Name:	passenger te		odinal_o	Bate accepted.	2001 00 01				
					_					
	Definition:	a terminal fo	r the loa	iding and unloading of	f passengers.					

Value	Data Dictio	onary (DD) Reference								
9	DD Name:	IENC	Code:	cathaf_9	Date accepted:	2001-05-31				
	Name:	shipyard								
	Definition:	a place whe	re ships	are built or repaired (I	HO Dictionary, S-	32, 5th Edition, 4686).				
10	DD Name:	IENC	Code:	cathaf_10	Date accepted:	2001-05-31				
	Name:	container ter	minal							
	Definition:	a terminal fo	r contaiı	ner ships.						
11	DD Name:	IENC	Code:	cathaf_11	Date accepted:	2001-05-31				
	Name:	bulk termina	bulk terminal							
	Definition:	a terminal fo	or the ha	ndling of bulk material	s such as iron ore	, coal, etc.				
12	DD Name:	IENC	Code:	cathaf_12	Date accepted:	2001-05-31				
	Name:	syncrolift								
	Definition: and out of t		a platform powered by synchronous electric motors used to lift vessels (larger than boats) in ne water.							
13	DD Name:	IENC	Code:	cathaf_13	Date accepted:	2001-05-31				
	Name:	straddle carrier								
	Definition: used for mo	a wheeled vehicle designed to lift and carry containers or vessels within its own framework. It is oving, and sometimes stacking, shipping containers and vessels.								
16	DD Name:	IENC	Code:	cathaf_16	Date accepted:	2001-05-31				
	Name:	service and repair								
	Definition: equipment.		a place where mechanical services or repairs can be undertaken to engines or other vessel							
17	DD Name:	IENC	Code:	cathaf_17	Date accepted:	2001-05-31				
	Name:	quarantine s	tation							
	Definition:	A medical co	ontrol ce	enter located in an isola	ated spot ashore v	where patients with contagious				

IENC_FC_26.DOCX 450

diseases from vessel in quarantine are taken.

Attribute	Category of hulk	
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 Dictio	nary (DD) Ref	ference							
1	DD Name:	IENC	Code:	cathlk_1	Date accepted:	2001-05-31				
	Name:	floating resta	aurant							
	Definition:	a permanen	tly moor	ed floating structure, s	such as an old ship	o, used as a restaurant.				
2	DD Name:	IENC	Code:	cathlk_2	Date accepted:	2001-05-31				
	Name:	historic ship								
	Definition:	a ship of his	torical in	terest permanently mo	oored as a tourist	attraction.				
3	DD Name:	IENC	Code:	cathlk_3	Date accepted:	2001-05-31				
	Name:	museum								
	Definition:	a permanen	tly moor	ed floating structure, s	such as an old ship	o, used as a museum.				
4	DD Name:	IENC	Code:	cathlk_4	Date accepted:	2001-05-31				
	Name:	accommodat	tion							
	Definition:	a permanen	tly moor	ed floating structure, s	such as an old ship	o, used for accommodation.				
5	DD Name:	IENC	Code:	cathlk_5	Date accepted:	2001-05-31				
	Name:	floating brea	kwater							
	Definition: breakwater	•	a permanently moored floating structure, often constructed from old ships, used as a							
6	DD Name:	IENC	Code:	cathlk_6	Date accepted:	2001-05-31				
	Name:	casino boat								

Value Data Dictionary (DD) Reference

Definition: a permanently moored floating structure, such as an old ship, used as a casino boat

Attribute	Category of lateral mark
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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.

5 DD Name: IENC Code: catlam_5 Date accepted: 2001-05-31

Name: right-hand side of the waterway

Definition: indicates the right-hand side of the inland waterway

IENC FC 26.DOCX 453

Value	Data Dictio	nary (DD) Reference									
6	DD Name:	IENC	Code:	catlam_6	Date accepted:	2001-05-31					
	Name:	left-hand side	left-hand side of the waterway								
	Definition:	indicates the	indicates the left-hand side of the inland waterway								
7	DD Name:	IENC	Code:	catlam_7	Date accepted:	2001-05-31					
	Name:	right-hand si	de of the	e channel							
	Definition:	indicates the	e right-ha	and side of a channel	of an inland water	way					
8	DD Name:	IENC	Code:	catlam_8	Date accepted:	2001-05-31					
	Name:	left-hand sid	e of the	channel							
	Definition:	indicates the	e left-har	nd side of a channel of	an inland waterw	ay					
9	DD Name:	IENC	Code:	catlam_9	Date accepted:	2001-05-31					
	Name:	bifurcation o	f the wat	erway							
	Definition:	indicates a b	oifurcatio	n of the inland waterw	<i>ı</i> ay						
10	DD Name:	IENC	Code:	catlam_10	Date accepted:	2001-05-31					
	Name:	bifurcation o	f the cha	innel							
	Definition:	indicates a b	oifurcatio	n of a channel of an ir	nland waterway						
11	DD Name:	IENC	Code:	catlam_11	Date accepted:	2001-05-31					
	Name:	channel near the right bank									
	Definition:	indicates tha	at the ch	annel is near the right	bank						
12	DD Name:	IENC	Code:	catlam_12	Date accepted:	2001-05-31					
	Name:	channel near the left bank									
	Definition:	indicates tha	at the ch	annel is near the left b	ank						
13	DD Name:	IENC	Code:	catlam_13	Date accepted:	2001-05-31					
	Name:	channel cros	s-over to	o the right bank							
	Definition:	indicates tha	at the cha	annel crosses from the	e left to the right ba	ank					
14	DD Name:	IENC	Code:	catlam_14	Date accepted:	2001-05-31					
	Name:	channel cros	s-over to	o the left bank							
	Definition:	indicates tha	at the ch	annel crosses from the	e right to the left ba	ank					
15	DD Name:	IENC	Code:	catlam_15	Date accepted:	2001-05-31					

Value	Data Dictio	Data Dictionary (DD) Reference					
	Name:	danger point or obstacles at the right-hand side					
	Definition:	indicates a danger point or obstacles at the right-hand side					
16	DD Name:	IENC Code: catlam_16 Date accepted: 2001-05-31					
	Name:	danger point or obstacles at the left-hand side					
	Definition:	indicates 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 at the right-hand side					
	Definition:	indicates a turn off at the right-hand side					
18	DD Name:	IENC Code: catlam_18 Date accepted: 2001-05-31					
	Name:	turn off at the left-hand side					
	Definition:	indicates a turn off at the left-hand side					
19	DD Name:	IENC Code: catlam_19 Date accepted: 2001-05-31					
	Name:	junction at the right-hand side					
	Definition:	indicates a junction at the right-hand side					
20	DD Name:	IENC Code: catlam_20 Date accepted: 2001-05-31					
	Name:	junction at the left-hand side					
	Definition:	indicates a junction at the left-hand side					
21	DD Name:	IENC Code: catlam_21 Date accepted: 2001-05-31					
	Name:	harbour entry at the right-hand side					
	Definition:	indicates a harbour entry at the right-hand side					
22	DD Name:	IENC Code: catlam_22 Date accepted: 2001-05-31					
	Name:	harbour entry at the left-hand side					
	Definition:	indicates a harbour entry at the left-hand side					
23	DD Name:	IENC Code: catlam_23 Date accepted: 2001-05-31					
	Name:	bridge pier mark					
	Definition:	indicates a bridge pier in a inland waterway					
24	DD Name:	IENC Code: catlam_24 Date accepted: 2013-01-01					
	Name:	entry from a lake to a narrower waterway, right bank					
	Definition:	indicates the right bank of the entry from a lake or a lake-like expansion to a section of the					

Value Data Dictionary (DD) Reference

waterway which is narrower

DD Name: IENC Code: catlam_25 Date accepted: 2013-01-01

Name: entry from a lake to a narrower waterway, left bank

Definition: indicates the left bank of the entry from a lake or a lakelike expansion to a section of the

waterway which is narrower

DD Name: IENC Code: catlam_26 Date accepted: 2013-12-30

Name: change bank

Definition:

27 DD Name: IENC Code: catlam 27 Date accepted: 2013-12-30

Name: continue along bank

Definition:

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:

<u>Enumerations:</u>							
Value	Data Dictionary (DD) Reference						
1	DD Name:	IENC	Code:	catnmk_1	Date accepted:	2001-05-31	
	Name:	(A.1) no entry (general sign)					
	Definition: Inland ENC		nark A.1	: no entry (general sig	n) (Source: Anne:	x AA of the Encoding Guide for	
2	DD Name:	IENC	Code:	catnmk_2	Date accepted:	2001-05-31	
	Name:	(A.1.1) section	ons close	ed to use, no entry exc	cept for non-motor	ized small craft	
	Definition: (Source:An			.1: sections closed to unique for Inland EN		ept for non-motorized small craft	
3	DD Name:	IENC	Code:	catnmk_3	Date accepted:	2001-05-31	
	Name:	(A.2) no overtaking					
	Definition: ENCs)	S (
4	DD Name:	IENC	Code:	catnmk_4	Date accepted:	2001-05-31	
	Name:	(A.3) no over	taking o	f convoys by convoys			
	Definition: Prohibition mark A.3: no overtaking of convoys by convoys (Source: Annex AA of the Encoding Guide for Inland ENCs)						
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 (Source: Annex AA of the Encoding Guid Inland ENCs)					nex AA of the Encoding Guide for	

Value	Data Dictionary (DD) Reference						
6	DD Name:	IENC	Code:	catnmk_6	Date accepted:	2001-05-31	
	Name:	(A.5) no bert	hing on	the side of the waterw	ay on which the si	ign is placed	
	Definition: the waterw			- ,	_	ng fast to the bank) on the side of coding Guide for Inland ENCs)	
7	DD Name:	IENC	Code:	catnmk_7	Date accepted:	2001-05-31	
	Name:	(A.5.1) no berthing on the stretch of water whose breadth, measured from the sign, is shown in metres on the sign					
	Definition: sign, is sho			•		hose breadth, measured from the g Guide for Inland ENCs)	
8	DD Name:	IENC	Code:	catnmk_8	Date accepted:	2001-05-31	
	Name:	(A.6) no anc	horing o	r trailing of anchors, ca	ables or chains		
	Definition: waterway o			•	•	oles or chains on the side of the ng Guide for Inland ENCs)	
9	DD Name:	IENC	Code:	catnmk_9	Date accepted:	2001-05-31	
	Name:	(A.7) no mak	king fast	to the bank			
	Definition: is placed(: no making fast to the the Encoding Guide for		of the waterway on which the sign	
10	DD Name:	IENC	Code:	catnmk_10	Date accepted:	2001-05-31	
	Name:	(A.8) no turn	ing				
	Definition:	Prohibition r	nark A.8	: no turning (Source:	Annex AA of the I	Encoding Guide for Inland ENCs)	
11	DD Name:	IENC	Code:	catnmk_11	Date accepted:	2001-05-31	
	Name:	(A.9) Do not	create v	vash			
	Definition: Encoding 0	Definition: Prohibition mark A.9: do not create wash likely to cause damage (Source: Annex AA of the Encoding Guide for Inland ENCs)					
12	DD Name:	IENC	Code:	catnmk_12	Date accepted:	2001-05-31	
	Name:	(A.10) no pa	ssing on	left side (in openings	of bridges or weir	s)	
		Definition: Prohibition mark A.10: no passing on left side (in openings of bridges or weirs) (Source: Annex AA of the Encoding Guide for Inland ENCs)					
13	DD Name:	IENC	Code:	catnmk_13	Date accepted:	2001-05-31	
	Name:	(A.10) no pa	ssing on	right side (in opening	s of bridges or we	irs)	
	Definition: Prohibition mark A.10: no passing on right side (in openings of bridges or weirs) (Source: Annex AA of the Encoding Guide for Inland ENCs)						

Value	Data Dictionary (DD) Reference							
14	DD Name:	IENC	Code:	catnmk_14	Date accepted:	2001-05-31		
	Name:	(A.12) motorized craft prohibited						
	Definition: for Inland E		nark A.1	2: motorized craft prol	nibited (Source: A	Annex AA of the Encoding Guide		
15	DD Name:	IENC	Code:	catnmk_15	Date accepted:	2001-05-31		
	Name:	(A.13) sports and pleasure craft prohibited						
	Definition: Encoding 0	Prohibition r Guide for Inlan		·	e craft prohibited(Source: Annex AA of the		
16	DD Name:	IENC	Code:	catnmk_16	Date accepted:	2001-05-31		
	Name:	(A.14) water	skiing p	rohibited				
	Definition: Inland ENC		nark A.1	4: water skiing prohibi	ted (Source: Ann	ex AA of the Encoding Guide for		
17	DD Name:	IENC	Code:	catnmk_17	Date accepted:	2001-05-31		
	Name:	(A.15) sailing	g vessels	s prohibited				
	Definition: Inland ENC		nark A.1	5: sailing vessels proh	nibited (Source: A	Annex AA of the Encoding Guide for		
18	DD Name:	IENC	Code:	catnmk_18	Date accepted:	2001-05-31		
	Name:	(A.16) all cra	oft other	than motorized vessel	s or sailing craft p	rohibited		
	Definition: Annex AA			6: all craft other than r for Inland ENCs)	motorized vessels	or sailing craft prohibited (Source:		
19	DD Name:	IENC	Code:	catnmk_19	Date accepted:	2001-05-31		
	Name:	(A.17) use o	f sailboa	rds prohibited				
	Definition: Prohibition mark A.17: use of sailboards prohibited (Source: Annex AA of the Encoding Guide for Inland ENCs)							
20	DD Name:	IENC	Code:	catnmk_20	Date accepted:	2001-05-31		
	Name:	(A.20) water	bikes pr	ohibited				
	Definition: Inland ENC	Definition: Prohibition mark A.20: water bikes prohibited (Source: Annex AA of the Encoding Guide for Inland ENCs)						
21	DD Name:	IENC	Code:	catnmk_21	Date accepted:	2001-05-31		
	Name: (A.18) end of zone authorized for high speed navigation of small sport and pleasure craft prohibited							
	Definition: Prohibition mark A.18: end of zone authorized for high speed navigation of small sport and							

Value	Data Dictionary (DD) Reference					
	pleasure craft prohibited (Source: Annex AA of the Encoding Guide for Inland ENCs)					
22	DD Name:	IENC Code: catnmk_22 Date accepted: 2001-05-31				
	Name:	(A.19) no launching or beaching of vessels				
	Definition: Encoding (Prohibition mark A.19: no launching or beaching of vessels (Source: Annex AA of the uide for Inland ENCs)				
23	DD Name:	IENC Code: catnmk_23 Date accepted: 2001-05-31				
	Name:	(B.1) proceed in left direction				
	Definition: Inland ENC	Regulation mark B.1: proceed in left direction (Source: Annex AA of the Encoding Guide for s)				
24	DD Name:	IENC Code: catnmk_24 Date accepted: 2001-05-31				
	Name:	(B.1) proceed in right direction				
	Definition: Inland ENC	Regulation mark B.1: proceed in right direction (Source: Annex AA of the Encoding Guide for s)				
25	DD Name:	IENC Code: catnmk_25 Date accepted: 2001-05-31				
	Name:	(B.2a) move to the side of the fairway on your port side				
	Definition: the Encodi	Regulation mark B.2a: move to the side of the fairway on your port side (Source: Annex AA of ag Guide for Inland ENCs)				
26	DD Name:	IENC Code: catnmk_26 Date accepted: 2001-05-31				
	Name: (B.2b) move to the side of the fairway on your starboard side					
	Definition: AA of the E	Regulation mark B.2b: move to the side of the fairway on your starboard side (Source: Annex Encoding Guide for Inland ENCs)				
27	DD Name:	IENC Code: catnmk_27 Date accepted: 2001-05-31				
	Name:	(B.3a) keep on the side of the fairway on your port side				
	Definition: the Encodi	Regulation mark B.3a: keep on the side of the fairway on your port side (Source: Annex AA of g Guide for Inland ENCs)				
28	DD Name:	IENC Code: catnmk_28 Date accepted: 2001-05-31				
	Name:	(B.3b) keep on the side of the fairway on your starboard side				
	Definition: Regulation mark B.3b: keep on the side of the fairway on your starboard side (Source: Anne AA of the Encoding Guide for Inland ENCs)					
29	DD Name:	IENC Code: catnmk_29 Date accepted: 2001-05-31				
	Name:	(B.4a) cross fairway to port				
	Definition:	Regulation mark B.4a: cross fairway to port (Source: Annex AA of the Encoding Guide for				

Value Data Dictionary (DD) Reference Inland ENCs) 30 DD Name: IENC Code: catnmk_30 Date accepted: 2001-05-31 Name: (B.4b) cross fairway to starboard Definition: Regulation mark B.4b: cross fairway to starboard (Source: Annex AA of the Encoding Guide for Inland ENCs) 31 DD Name: IENC Code: catnmk_31 Date accepted: 2001-05-31 Name: (B.5) stop as prescribed in the regulations Definition: Regulation mark B.5: stop as prescribed in the regulations (Source: Annex AA of the Encoding Guide for Inland ENCs) 32 DD Name: IENC Code: catnmk 32 Date accepted: 2001-05-31 Name: (B.6) do not exceed the speed indicated (in km/h) Definition: Regulation mark B.6: do not exceed the speed indicated (in km/h) (Source: Annex AA of the **Encoding Guide for Inland ENCs)** 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 signal (Source: Annex AA of the Encoding Guide for Inland ENCs) 34 DD Name: IENC Code: catnmk 34 Date accepted: 2001-05-31 Name: (B.8) keep a particularly sharp lookout Definition: Regulation mark B.8: keep a particularly sharp lookout (Source: Annex AA of the Encoding Guide for Inland ENCs) 35 DD Name: IENC Code: catnmk 35 Date accepted: 2001-05-31 (B.9a) do not enter the main waterway until certain that this will not oblige vessels proceeding Name: on it to change their course or speed Definition: Regulation mark B.9a: do not enter the main waterway until certain that this will not oblige vessels proceeding on it to change their course or speed (Source: Annex AA of the Encoding Guide for Inland ENCs) 36 DD Name: IENC Code: catnmk 36 Date accepted: 2001-05-31 (B.9b) do not cross the main waterway until certain that this will not oblige vessels proceeding Name:

IENC FC 26.DOCX 461

Definition: Regulation mark B.9b: do not cross the main waterway until certain that this will not oblige vessels proceeding on it to change their course or speed (Source: Annex AA of the Encoding Guide for

on it to change their course or speed

Inland ENCs)

Value	Data Dictionary (DD) Reference							
37	DD Name:	IENC	Code:	catnmk_37	Date accepted:	2001-05-31		
	Name:	(B.11) obliga	ition to e	enter into a radioteleph	one link on the ch	annel as indicated on the board		
	Definition: on the boa	U	Regulation mark B.11: obligation to enter into a radiotelephone link on the channel as indicated (Source: Annex AA of the Encoding Guide for Inland ENCs)					
38	DD Name:	IENC	Code:	catnmk_38	Date accepted:	2001-05-31		
	Name:	(C.1) depth of	of water	limited				
	Definition: Inland ENC		nark C.1	: depth of water limite	d (Source: Annex	x AA of the Encoding Guide for		
39	DD Name:	IENC	Code:	catnmk_39	Date accepted:	2001-05-31		
	Name:	(C.2) headro	om limit	ed				
	Definition: ENCs)	Restriction n	nark C.2	: headroom limited (S	Source: Annex AA	of the Encoding Guide for Inland		
40	DD Name:	IENC	Code:	catnmk_40	Date accepted:	2001-05-31		
	Name:	(C.3) width o	of passa	ge or channel limited				
	Definition: Guide for I	Restriction n	nark C.3	: width of passage or	channel limited (S	Source: Annex AA of the Encoding		
41	DD Name:	IENC	Code:	catnmk_41	Date accepted:	2001-05-31		
	Name:	(C.4) there a	re restri	ctions on navigation				
	Definition: sign (Sour		Restriction mark C.4: there are restrictions on navigation: see the information plate below the see: Annex AA of the Encoding Guide for Inland ENCs)					
42	DD Name:	IENC	Code:	catnmk_42	Date accepted:	2001-05-31		
	Name:	(C.5) the cha	annel lies	s at a distance from th	e left bank			
	•	efinition: Restriction mark C.5: the channel lies at a distance from the left bank; the figure shown on the gn indicates the distance in metres, measured from the sign, to which vessels should keep. (Source: nnex AA of the Encoding Guide for Inland ENCs)						
43	DD Name:	IENC	Code:	catnmk_43	Date accepted:	2001-05-31		
	Name:	(C.5) the cha	annel lies	s at a distance from th	e right bank			
	•	on: Restriction mark C.5: the channel lies at a distance from the right bank; ; the figure shown on n indicates the distance in metres, measured from the sign, to which vessels should keep. (Source: AA of the Encoding Guide for Inland ENCs)						
44	DD Name:	IENC	Code:	catnmk_44	Date accepted:	2001-05-31		
	Name:	(D.1a) recom	nmende	d channel in both dired	ctions			

Value Data Dictionary (DD) Reference Definition: Recommendation mark D.1a: recommended channel in both directions (Source: Annex AA of the Encoding Guide for Inland ENCs) 45 DD Name: IENC Code: catnmk 45 Date accepted: 2001-05-31 (D.1b) recommended channel only in the direction indicated, passage in the opposite direction Name: prohibited (at bridges) Definition: Recommendation mark D.1b: recommended channel only in the direction indicated, passage in the opposite direction prohibited (at bridges) (Source: Annex AA of the Encoding Guide for Inland ENCs) 46 DD Name: IENC Code: catnmk 46 Date accepted: 2001-05-31 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) (Source: Annex AA of the Encoding Guide for Inland ENCs) 47 DD Name: IENC Code: catnmk_47 Date accepted: 2001-05-31 Name: (D.2) you are recommended to keep on left side (in openings of bridges and weirs) Definition: Recommendation mark D.2: you are recommended to keep on left side (in openings of bridges and weirs) (Source: Annex AA of the Encoding Guide for Inland ENCs) 48 DD Name: IENC Code: catnmk_48 Date accepted: 2001-05-31 (D.3) you are recommended to proceed in the left direction Name: Definition: Recommendation mark D.3: you are recommended to proceed in the left direction (Source: Annex AA of the Encoding Guide for Inland ENCs) 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: Recommendation mark D.3: you are recommended to proceed in the right direction (Source: Annex AA of the Encoding Guide for Inland ENCs) 50 DD Name: IENC Code: catnmk 50 Date accepted: 2001-05-31 Name: (E.1) entry permitted (general sign) Definition: Information mark E.1: entry permitted (general sign) (Source: Annex AA of the Encoding Guide for Inland ENCs) 51 DD Name: IENC Code: catnmk 51 Date accepted: 2001-05-31 Name: (E.2) overhead cable crossing Definition: Information mark E.2: overhead cable crossing (Source: Annex AA of the Encoding Guide for Inland ENCs)

IENC_FC_26.DOCX 463

Date accepted:

2001-05-31

Code: catnmk 52

52

DD Name: IENC

Edition 2.6.0 IENC Feature Catalogue

Value Data Dictionary (DD) Reference

> Name: (E.3) weir

Definition: Information mark E.3: weir (Source: Annex AA of the Encoding Guide for Inland ENCs)

53 DD Name: IENC Code: catnmk 53 Date accepted: 2001-05-31

> Name: (E.4a) ferry-boat not moving independently

Definition: Information mark E.4a: ferry-boat not moving independently (Source: Annex AA of the

Encoding Guide for Inland ENCs)

54 DD Name: IENC Code: catnmk 54 Date accepted: 2001-05-31

> Name: (E.4b) ferry-boat moving independently

Definition: Information mark E.4b: ferry-boat moving independently (Source: Annex AA of the Encoding

Guide for Inland ENCs)

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 on the side of the waterway on which the sign is placed (Source: Annex AA of the Encoding Guide for Inland

ENCs)

DD Name: IENC 56 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 (Source: Annex AA of the Encoding Guide for Inland ENCs)

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 (Source: Annex AA of the Encoding Guide for Inland

ENCs)

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 on the side of the waterway on which the sign is placed (Source: Annex AA of the Encoding Guide for Inland ENCs)

59 DD Name: IENC Code: catnmk 59 Date accepted: 2001-05-31

> (E.5.4) berthing area reserved for pushing-navigation vessels that are not required to carry blue Name:

> > lights or blue cones

IENC FC 26.DOCX 464

Value Data Dictionary (DD) Reference

Definition: Information mark E.5.4: berthing area reserved for pushing-navigation vessels that are not required to carry blue lights or blue cones on the side of the waterway on which the sign is placed (Source: Annex AA of the Encoding Guide for Inland ENCs)

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 on the side of the waterway on which the sign is placed (Source: Annex AA of the Encoding Guide for Inland ENCs)

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 on the side of the waterway on which the sign is placed (Source: Annex AA of the Encoding Guide for Inland ENCs)

62 DD Name: IENC Code: catnmk_62 Date accepted: 2001-05-31

Name: (E.5.7) berthing area reserved for pushing-navigation vessels that are required to carry three

blue lights or three blue cones

Definition: Information mark E.5.7: berthing area reserved for pushing-navigation vessels that are required to carry three blue lights or three blue cones on the side of the waterway on which the sign is placed (Source: Annex AA of the Encoding Guide for Inland ENCs)

DD Name: IENC Code: catnmk_63 Date accepted: 2001-05-31

Name: (E.5.8) berthing area reserved for vessels other than pushing-navigation vessels that are not

required to carry blue lights or blue cones

Definition: Information mark E.5.8: berthing area reserved for vessels other than pushing-navigation vessels that are not required to carry blue lights or blue cones on the side of the waterway on which the sign is placed (Source: Annex AA of the Encoding Guide for Inland ENCs)

DD Name: IENC Code: catnmk_64 Date accepted: 2001-05-31

Name: (E.5.9) berthing area reserved for vessels other than for pushing-navigation vessels that are

required to carry one blue light or one blue cone

Definition: Information mark E.5.9: berthing area reserved for vessels other than pushing-navigation vessels that are required to carry one blue light or one blue cone on the side of the waterway on which the sign is placed (Source: Annex AA of the Encoding Guide for Inland ENCs)

65 DD Name: IENC Code: catnmk 65 Date accepted: 2001-05-31

Name: (E.5.10) berthing area reserved for vessels other than for pushing-navigation vessels that are

required to carry two blue lights or two blue cones

Value Data Dictionary (DD) Reference

Definition: Information mark E.5.10: berthing area reserved for vessels other than pushing-navigation vessels that are required to carry two blue lights or two blue cones on the side of the waterway on which the sign is placed (Source: Annex AA of the Encoding Guide for Inland ENCs)

66 DD Name: IENC Code: catnmk_66 Date accepted: 2001-05-31

Name: (E.5.11) berthing area reserved for vessels other than for pushing-navigation vessels that are

required to carry three blue lights or three blue cones

Definition: Information mark E.5.11: berthing area reserved for vessels other than pushing-navigation vessels that are required to carry three blue lights or three blue cones on the side of the waterway on which the sign is placed (Source: Annex AA of the Encoding Guide for Inland ENCs)

67 DD Name: IENC Code: catnmk_67 Date accepted: 2001-05-31

Name: (E.5.12) berthing area reserved for all vessels that are not required to carry blue lights or blue

cones

Definition: Information mark E.5.12: berthing area reserved for all vessels that are not required to carry blue lights or blue cones on the side of the waterway on which the sign is placed (Source: Annex AA of the Encoding Guide for Inland ENCs)

68 DD Name: IENC Code: catnmk_68 Date accepted: 2001-05-31

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

blue cone

Definition: Information mark E.5.13: berthing area reserved for all vessels that are required to carry one blue light or one blue cone on the side of the waterway on which the sign is placed (Source: Annex AA of the Encoding Guide for Inland ENCs)

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 on the side of the waterway on which the sign is placed (Source: Annex AA of the Encoding Guide for Inland ENCs)

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 on the side of the waterway on which the sign is placed (Source: Annex AA of the Encoding Guide for Inland ENCs)

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 on the side of

IENC FC 26.DOCX 466

Value	Data Dictionary (DD) Reference					
	the waterway on which the sign is placed (Source: Annex AA of the Encoding Guide for Inland ENCs)					
72	DD Name:	:NC Code: catnmk_72 Date accepted:	2001-05-31			
	Name:	E.7) making fast to the bank permitted				
	Definition: the sign is	nformation mark E.7: making fast to the bank permitted on ced (Source: Annex AA of the Encoding Guide for Inland	•			
73	DD Name:	NC Code: catnmk_73 Date accepted:	2001-05-31			
	Name:	E.7.1) berthing area reserved for loading and unloading of	vehicles			
	Definition: Annex AA	nformation mark E.7.1: berthing area reserved for loading a he Encoding Guide for Inland ENCs)	and unloading of vehicles (Source:			
74	DD Name:	NC Code: catnmk_74 Date accepted:	2001-05-31			
	Name:	E.8) turning area				
	Definition: ENCs)	nformation mark E.8: turning area(Source: Annex AA of t	he Encoding Guide for Inland			
75	DD Name:	NC Code: catnmk_75 Date accepted:	2001-05-31			
	Name:	E.9a) crossing with secondary waterway ahead				
	Definition: Encoding (nformation mark E.9a: crossing with secondary waterway and de for Inland ENCs)	ahead (Source: Annex AA of the			
76	DD Name:	NC Code: catnmk_76 Date accepted:	2001-05-31			
Name: (E.9b) secondary waterway ahead on the right						
	Definition: Encoding (Information mark E.9b: secondary waterway ahead on the right (Source: Annex AA of the Guide for Inland ENCs)				
77	DD Name:	:NC Code: catnmk_77 Date accepted:	2001-05-31			
	Name:	E.9c) secondary waterway ahead on the left				
	Definition: Information mark E.9c: secondary waterway ahead on the left (Source: Annex AA of the Encoding Guide for Inland ENCs)					
78	DD Name:	:NC Code: catnmk_78 Date accepted:	2001-05-31			
	Name:	E.9d) secondary waterway ahead, main waterway on the ri	ght			
	Definition: Information mark E.9d: secondary waterway ahead, main waterway on the right (Source: Annex AA of the Encoding Guide for Inland ENCs)					
79	DD Name:	:NC Code: catnmk_79 Date accepted:	2001-05-31			
	Name:	E.9e) secondary waterway ahead, main waterway on the le	eft			
Definition: Information mark E.9e: secondary waterway ahead, main waterway on the lef						

Value	Data Dictionary (DD) Reference								
	AA of the E	Incoding Guid	e for Inla	and ENCs)					
80	DD Name:	IENC	Code:	catnmk 80	Date accepted:	2001-05-31			
	Name:	(E.9f) second		_ terway on the left, mai	·				
	Definition: Information mark E.9f: secondary waterway on the left, main waterway on the right Annex AA of the Encoding Guide for Inland ENCs)								
81	DD Name:	IENC	Code:	catnmk_81	Date accepted:	2001-05-31			
	Name:	(E.9g) secon	ıdary wa	iterway on the right, m	ain waterway on t	he left			
	Definition: Annex AA			9g: secondary waterwa e for Inland ENCs)	ay on the right, ma	ain waterway on the left (Source:			
82	DD Name:	IENC	Code:	catnmk_82	Date accepted:	2001-05-31			
	Name:	(E.9h) secon	idary wa	iterway ahead and on	the left, main wate	erway on the right			
	Definition: (Source: A			9h: secondary waterwa ling Guide for Inland E	•	he left, main waterway on the right			
83	DD Name:	IENC	Code:	catnmk_83	Date accepted:	2001-05-31			
	Name:	(E.9i) second	dary wat	erway ahead and on t	he right, main wat	erway on the left			
	Definition: (Source: A			9i: secondary waterwa ing Guide for Inland E	•	ne right, main waterway on the left			
84	DD Name:	IENC	Code:	catnmk_84	Date accepted:	2001-05-31			
	Name:	(E.10a) crossing with main waterway ahead							
	Definition: Encoding C	Information Guide for Inlan		_	n waterway ahead	d (Source: Annex AA of the			
85	DD Name:	IENC	Code:	catnmk_85	Date accepted:	2001-05-31			
	Name:	(E.10b) main waterway ahead							
	Definition: Inland ENC		mark E.	10b: main waterway al	nead (Source: Ar	nnex AA of the Encoding Guide for			
86	DD Name:	IENC	Code:	catnmk_86	Date accepted:	2001-05-31			
	Name:	(E.10c) junct	ion with	main waterway ahead	d and right				
	Definition: the Encodi	Information Ing Guide for I		•	n waterway ahead	and right (Source: Annex AA of			
87	DD Name:	IENC	Code:	catnmk_87	Date accepted:	2001-05-31			
	Name:	(E.10d) junct	tion with	main waterway ahead	d and left				
	Definition:	Information	mark E.	10d: junction with mair	n waterway ahead	and left (Source: Annex AA of the			

Value	Data Dictio	Data Dictionary (DD) Reference							
	Encoding (Guide for Inlan	d ENCs)					
88	DD Name:	IENC	Code:	catnmk_88	Date accepted:	2001-05-31			
	Name:	(E.10e) junct	tion with	main waterway ahead	d and right, secon	dary waterway on the left			
	Definition: the left (So	nition: Information mark E.10e: junction with main waterway ahead and right, secondary water (Source: Annex AA of the Encoding Guide for Inland ENCs)							
89	DD Name:	IENC	Code:	catnmk_89	Date accepted:	2001-05-31			
	Name:	(E.10f) juncti	on with	main waterway ahead	and left, seconda	ry waterway on the right			
	Definition: the right (S			10f: junction with main the Encoding Guide fo	<u>-</u>	and left, secondary waterway on			
90	DD Name:	IENC	Code:	catnmk_90	Date accepted:	2001-05-31			
	Name:	(E.11) end o	f prohibi	tion or obligation apply	ying to traffic in on	e direction only, or end of a			
	Definition: end of a re			11: end of prohibition on the AA of the Encodin		ing to traffic in one direction only, or I ENCs)			
91	DD Name:	IENC	Code:	catnmk_91	Date accepted:	2001-05-31			
	Name:	(E.13) drinkii	ng watei	rsupply					
	Definition: Inland ENC		mark E.	13: drinking water sup	ply (Source: Ann	ex AA of the Encoding Guide for			
92	DD Name:	IENC	Code:	catnmk_92	Date accepted:	2001-05-31			
	Name:	(E.14) teleph	one						
	Definition:	Information	mark E.	14: telephone (Source	e: Annex AA of the	e Encoding Guide for Inland ENCs)			
93	DD Name:	IENC	Code:	catnmk_93	Date accepted:	2001-05-31			
	Name:	(E.15) motorized vessels permitted							
	Definition: Guide for I	Information (nland ENCs)	mark E.	15: motorized vessels	permitted (Source	e: Annex AA of the Encoding			
94	DD Name:	IENC	Code:	catnmk_94	Date accepted:	2001-05-31			
	Name:	(E.16) sport	and plea	asure craft permitted					
	Definition: Guide for I	Information (nland ENCs)	mark E.	16: sport and pleasure	craft permitted (S	Source: Annex AA of the Encoding			
95	DD Name:	IENC	Code:	catnmk_95	Date accepted:	2001-05-31			
	Name:	(E.17) water	skiing p	ermitted					
	Definition:	Information	mark E.	17: water skiing permit	tted (Source: Ann	ex AA of the Encoding Guide for			

Value		ata Dictionary (DD) Reference land ENCs)							
	mana Ene	,3)							
96	DD Name:	IENC	Code:	catnmk_96	Date accepted:	2001-05-31			
	Name:	(E.18) sailing	y vessels	s permitted					
	Definition: Inland ENC		mark E.1	18: sailing vessels peri	mitted (Source: A	Annex AA of the Encoding Guide for			
97	DD Name:	IENC	Code:	catnmk_97	Date accepted:	2001-05-31			
	Name:	(E.19) craft o	ther tha	n motorized vessels o	r sailing craft pern	nitted			
	Definition: Annex AA			l9: craft other than mo for Inland ENCs)	torized vessels or	sailing craft permitted (Source:			
98	DD Name:	IENC	Code:	catnmk_98	Date accepted:	2001-05-31			
	Name:	(E.20) use of	f sailboa	rds permitted					
	Definition: for Inland E		mark E.2	20: use of sailboards p	ermitted (Source	Annex AA of the Encoding Guide			
99	DD Name:	IENC	Code:	catnmk_99	Date accepted:	2001-05-31			
	Name:	(E.23) possib	oility of c	obtaining nautical infor	mation by radiotel	ephone on the channel indicated			
	Definition: channel ind			23: possibility of obtain ex AA of the Encoding	•	nation by radiotelephone on the ENCs)			
100	DD Name:	IENC	Code:	catnmk_100	Date accepted:	2001-05-31			
	Name:	(E.24) water bikes permitted							
	Definition: Inland ENC		mark E.2	24: water bikes permitt	ed (Source: Ann	ex AA of the Encoding Guide for			
101	DD Name:	IENC	Code:	catnmk_101	Date accepted:	2001-05-31			
	Name:	(E.21) zone authorized for high speed navigation of small sport and pleasure craft							
	Definition: Information mark E.21: zone authorized for high speed navigation of small sport and pleasu craft (Source: Annex AA of the Encoding Guide for Inland ENCs)								
102	DD Name:	IENC	Code:	catnmk_102	Date accepted:	2001-05-31			
	Name:	(E.22) launch	(E.22) launching or beaching of small craft permitted						
	Definition: the Encodir	Information ing Guide for Ir			ching of small craf	t permitted (Source: Annex AA of			
103	DD Name:	IENC	Code:	catnmk_103	Date accepted:	2009-09-11			
	Name:	(BR) proceed	d close t	o the margin on your p	oort side				
	Definition:	regulation m	ark (BR): proceed close to the	margin on your p	ort side			

Value	Data Dictionary (DD) Reference									
104	DD Name:	IENC Co	de: d	catnmk_104	Date accepted:	2009-09-11				
	Name:	(BR) proceed close to the margin on your starboard side								
	Definition:	regulation mark	(BR):	proceed close to the	margin on your st	arboard side				
105	DD Name:	IENC Co	de: d	catnmk_105	Date accepted:	2009-09-11				
	Name:	(BR) proceed in the middle of the river								
	Definition:	regulation mark	(BR):	proceed in the middle	e of the river					
106	DD Name:	IENC Co	de: d	catnmk_106	Date accepted:	2009-09-11				
	Name:	(BR) cross river	to port	t						
	Definition:	regulation mark	(BR):	cross river to port						
107	DD Name:	IENC Co	de: d	catnmk_107	Date accepted:	2009-09-11				
	Name:	(BR) cross river to starboard								
	Definition:	regulation mark	(BR):	cross river to starboa	ard					
108	DD Name:	IENC Co	de: d	catnmk_108	Date accepted:	2009-09-11				
	Name:	(BR) traffic between margins								
	Definition:	information mark	(BR)	: traffic between mar	gins					
109	DD Name:	IENC Co	de: d	catnmk_109	Date accepted:	2009-09-11				
	Name:	(BR) reduce speed								
	Definition:	regulation mark	(BR):	reduce speed						
110	DD Name:	IENC Co	de: d	catnmk_110	Date accepted:	2009-09-11				
	Name:	wreck pontoon, p	wreck pontoon, passage allowed on side showing red-white sign							
	Definition: (without wa	_		n on a wreck pontoor sign on the side on v		de on which passage is permitted not permitted				
111	DD Name:	IENC Co	de: d	catnmk_111	Date accepted:	2009-09-11				
	Name:	wreck pontoon, p	assaç	ge allowed on both si	des					
	Definition: (without wa	red-white signs sash of waves)	shown	ı on a wreck pontoon	to indicate that pa	assage is permitted on both sides				
112	DD Name:	IENC Co	de: d	catnmk_112	Date accepted:	2009-12-09				
	Name:	no passing or ov	ertakir	ng of convoys						
	Definition:	Russian notice r	nark: 1	1.2, no passing or ov	ertaking of convoy	/s				

Value	Data Dictionary (DD) Reference									
113	DD Name:	IENC	Code:	catnmk_113	Date accepted:	2009-12-09				
	Name:	small crafts prohibited								
	Definition:	Russian noti	ce mark	: 1.5, small crafts proh	iibited					
114	DD Name:	IENC	Code:	catnmk_114	Date accepted:	2009-12-09				
	Name:	Attention! (Ke	eep caut	tion)						
	Definition:	Russian noti	ce mark	: 2.1, Attention! (keep	caution)					
115	DD Name:	IENC	Code:	catnmk_115	Date accepted:	2009-12-09				
	Name:	fairway cross	sing							
	Definition:	Russian noti	ce mark	: 2.2, fairway crossing						
116	DD Name:	IENC	Code:	catnmk_116	Date accepted:	2009-12-09				
	Name:	shipping insp	ection p	point						
	Definition:	Russian noti	Russian notice mark: 3.3, shipping inspection point							
124	DD Name:	IENC	Code:	catnmk_124	Date accepted:	2023-11-10				
	Name:	right pillar in	passage	e for Tiete-Parana Wat	terway					
	Definition:	right pillar in	passage	e for Tiete-Parana Wa	terway (at bridges).				
125	DD Name:	IENC	Code:	catnmk_125	Date accepted:	2023-11-10				
	Name:	left pillar in passage for Tiete-Parana Waterway								
	Definition:	left pillar in p	assage	for Tiete-Parana Wate	erway (at bridges).					
126	DD Name:	IENC	Code:	catnmk_126	Date accepted:	2023-11-10				
	Name:	best transit p	oint							
	Definition:	best transit point (at bridges).								
127	DD Name:	IENC	Code:	catnmk_127	Date accepted:	2023-11-10				
	Name:	mandatory st	topping	point for Tiete-Parana	Waterway					
	Definition:	mandatory s	topping	point for Tiete-Parana	Waterway					
117	DD Name:	IENC	Code:	catnmk_117	Date accepted:	2014-10-20				
	Name:	(E.25) electri	cal powe	er supply point						
	Definition: Guide for Ir	Information r nland ENCs)	mark E.2	25: electrical power su	pply point (Source	e: Annex AA of the Encoding				
118	DD Name:	IENC	Code:	catnmk_118	Date accepted:	2014-10-20				

Value Data Dictionary (DD) Reference

Name: (E.26) winter harbour

Definition: Information mark E.26: winter harbour (Source: Annex AA of the Encoding Guide for Inland

ENCs)

119 DD Name: IENC Code: catnmk 119 Date accepted: 2014-10-20

Name: (E.26.1) maximum number of vessels permitted to berth in winter harbour

Definition: Information mark E.26.1: maximum number of vessels permitted to berth in winter harbour

(Source: Annex AA of the Encoding Guide for Inland ENCs)

120 DD Name: IENC Code: catnmk 120 Date accepted: 2014-10-20

Name: (E.27) winter shelter

Definition: Information mark E.27: winter shelter (Source: Annex AA of the Encoding Guide for Inland

ENCs)

121 DD Name: IENC Code: catnmk 121 Date accepted: 2014-10-20

Name: (E.27.1) maximum number of vessels permitted to berth in winter shelter; maximum number of

vessels permitted to berth abreast;

maximum number of rows of vessels which are berthed abreast

Definition: Information mark E.27.1: maximum number of vessels permitted to berth in winter shelter; maximum number of vessels permitted to berth abreast; maximum number of rows of vessels which are

berthed abreast (Source: Annex AA of the Encoding Guide for Inland ENCs)

122 DD Name: IENC Code: catnmk 122 Date accepted: 2014-10-20

Name: (E.6.1) use of spuds permitted

Definition: Information mark E.6.1: use of spuds permitted (Source: Annex AA of the Encoding Guide for

Inland ENCs)

DD Name: IENC Code: catnmk_123 Date accepted: 2019-03-12

Name: (B.12) obligation to use onshore power supply point

Definition: Regulation mark B.12: obligation to use onshore power supply point (all vessels are obligated to use the power supply for their electrical power needs) (Source: Annex AA of the Encoding Guide for

Inland ENCs)

IENC FC 26.DOCX 473

Attribute Category of plug

Acronym: catplg Code: 18034

Use Type: F Value Type: T

Data Dictionary (DD) Reference:

DD Name: IENC Date accepted: 2014-11-26

Definition: The type of plug(s) available at the power supply station.

Attribute	Category of refuse dump
-----------	-------------------------

Acronym: catrfd Code: 17071

Use Type: F
Value Type: L

Data Dictionary (DD) Reference:

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

Definition: Category of refuse dump

DD Name: IENC

Enumerations:

4

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. Date accepted: 3 DD Name: IENC Code: catrfd_3 2001-05-31 grey/black water Name: Definition: A facility where vessels can dispose of grey and/or black waste water.

Name: domestic refuse

Code: catrfd 4

Definition: A facility where vessels can dispose of domestic refuse.

IENC_FC_26.DOCX 475

Date accepted: 2001-05-31

Attribute	Category of rescue station
L.	

Acronym: catrsc Code: 17106

Use Type: F Value Type: L

Data Dictionary (DD) Reference:

DD Name: IENC Date accepted: 2010-09-17

Definition: Category of rescue station

Definition:

DD Name: IENC

streams.

6

Enumerations:

Litamorado	110.									
Value	Data Diction	Data Dictionary (DD) Reference								
1	DD Name:	IENC	Code:	catrsc_1	Date accepted:	2010-09-17				
	Name:	rescue station with life boat								
	Definition: fast, long di	•		ment for saving life at s ble inshore boats. (IH		the type of lifeboat may vary from ions, M-4).				
2	DD Name:	IENC	Code:	catrsc_2	Date accepted:	2010-09-17				
	Name:	rescue station with rocket								
		rocket - a pyı dition, 4418).	rotechnic	c projectile used for sig	gnalling or for life-	saving purposes. (IHO Dictionary,				
3	DD Name:	IENC	Code:	catrsc_3	Date accepted:	2010-09-17				
	Name:	not in use								
	Definition:									
4	DD Name:	IENC	Code:	catrsc_4	Date accepted:	2010-09-17				
	Name:	refuge for shi	p-wreck	ed mariners						
	Definition: shelter or protection from danger or distress at sea.									
5	DD Name:	IENC	Code:	catrsc_5	Date accepted:	2010-09-17				
	Name:	refuge for inte	ertidal aı	rea walkers						

IENC_FC_26.DOCX 476

Code: catrsc_6

shelter or protection from danger in areas exposed to extreme and sudden tides or tidal

Date accepted: 2010-09-17

Value Data Dictionary (DD) Reference

Name: lifeboat lying at a mooring

Definition: a place where a lifeboat is moored ready for use.

7 DD Name: IENC Code: catrsc 7 Date accepted: 2010-09-17

Name: aid radio station

Definition: a radio station reserved for emergency situations, might also be a public telephone.

8 DD Name: IENC Code: catrsc_8 Date accepted: 2010-09-17

Name: first aid equipment

Definition: a place where first aid equipment is available.

9 DD Name: IENC Code: catrsc_9 Date accepted: 2010-09-17

Name: lifebuoy, ring buoy, life ring, life saver

Definition: a "kisby ring" or "perry buoy" designed to be thrown to a person in the water, to provide

buoyancy and to prevent drowning.

Attribute

Acronym: catsen Code: 18019

Use Type: F
Value Type: L

Data Dictionary (DD) Reference:

DD Name: IENC Date accepted: 2011-12-19

Definition: Category of sensor

Enumerations:

Value Data Dictionary (DD) Reference

3 DD Name: IENC Code: catsen 3 Date accepted: 2024-04-05

Name: radio activated

Definition: A sensor which is activated by radio

1 DD Name: IENC Code: catsen_1 Date accepted: 2011-12-19

Name: light activated

Definition: A sensor which is activated by a spotlight

DD Name: IENC Code: catsen_2 Date accepted: 2011-12-19

Name: telephone activated

Definition: A sensor which is activated by telephone

Attribute	Category of ship (excluding)
-----------	------------------------------

Acronym: lc_cse Code: 18013

Use Type: F
Value Type: L

Data Dictionary (DD) Reference:

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

Definition:

Enumerations:

Value	Data Dictio	nary (DD) Re	ference			
1	DD Name: Name: Definition:	IENC all types	Code:	lc_cse_1	Date accepted:	2001-05-31
2	DD Name: Name: Definition:	IENC other	Code:	lc_cse_2	Date accepted:	2001-05-31
3	DD Name: Name: Definition:	IENC non-motoriza		lc_cse_3	Date accepted:	2001-05-31
5	DD Name:	craft		lc_cse_5	Date accepted:	2001-05-31
6	Definition: DD Name: Name: Definition:	IENC vessel	Code:	oating equipment lc_cse_6 vessel or sea going sh	Date accepted:	2001-05-31
7	DD Name:	IENC inland water	Code: way ves	lc_cse_7	Date accepted:	

Value	Data Dictio	nary (DD) Ref	erence			
8	DD Name:	IENC	Code:	lc_cse_8	Date accepted:	2001-05-31
	Name:	sea going sh	ip			
	Definition:	a vessel cer	tificated	for sea-going service		
9	DD Name:	IENC	Code:	lc_cse_9	Date accepted:	2001-05-31
	Name:	motor vessel				
	Definition:	a motor carg	jo vesse	l or a motor tanker		
10	DD Name:	IENC	Code:	lc_cse_10	Date accepted:	2001-05-31
	Name:	motor tanker	•			
	Definition: under its ov	a vessel inte vn motive pov		r the carriage of goods	s in fixed tanks and	d built to navigate independently
11	DD Name:	IENC	Code:	lc_cse_11	Date accepted:	2001-05-31
	Name:	motor cargo	vessel			
		a vessel, oth			ed for the carriage	e of goods and built to navigate
12	DD Name:	IENC	Code:	lc_cse_12	Date accepted:	2001-05-31
	Name:	canal barge				
	Definition: operating o	an inland wa n the Rhine-R	-	_	38.5 m in length ar	nd 5.05 m in breadth and usually
13	DD Name:	IENC	Code:	lc_cse_13	Date accepted:	2001-05-31
	Name:	tug				
	Definition:	a vessel spe	cially bu	ilt to perform towing o	perations	
14	DD Name:	IENC	Code:	lc_cse_14	Date accepted:	2001-05-31
	Name:	pusher				
	Definition:	a vessel spe	cially bu	ilt to propel a pushed	convoy	
15	DD Name:	IENC	Code:	lc_cse_15	Date accepted:	2001-05-31
	Name:	barge				
	Definition:	a dumb barg	je or tan	k barge		
16	DD Name:	IENC	Code:	lc_cse_16	Date accepted:	2001-05-31
	Name:	tank barge				
	Definition:	a vessel inte	nded for	the carriage of goods	s in fixed tanks and	d built to be towed, either having no

Edition 2.6.0 IENC Feature Catalogue

Value Data Dictionary (DD) Reference

motive power of its own or having only sufficient motive power to perform restricted manoeuvres

17 DD Name: IENC Code: Ic_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: Ic 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: Ic 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

Date accepted:

2001-05-31

21 DD Name: IENC

Code: Ic cse 21

Name: ship borne lighter

a lighter built to be carried aboard sea going ships and to navigate on inland waterways Definition:

22 DD Name: IENC Code: lc_cse_22 Date accepted: 2001-05-31

> Name: passenger vessel

Definition: a day trip or cabin vessel constructed and equipped to carry more than 12 passengers

23 DD Name: IENC Code: Ic cse 23 Date accepted: 2001-05-31

> passenger sailing vessel Name:

Definition: a passenger vessel fitted out mainly with a view to propulsion under sail

24 DD Name: IENC Code: Ic cse 24 Date accepted: 2001-05-31

> Name: day trip vessel

Definition: a passenger vessel without overnight passenger cabins

481 IENC FC 26.DOCX

Value	Data Diction	nary (DD) Ref	erence			
25	DD Name:	IENC	Code:	lc_cse_25	Date accepted:	2001-05-31
	Name:	cabin vessel				
	Definition:	a passenger	vessel	with overnight passeng	ger cabins	
26	DD Name:	IENC	Code:	lc_cse_26	Date accepted:	2001-05-31
	Name:	High-speed v	essel/			
	Definition:	a motorised	vessel c	apable of reaching spe	eeds over 40km/h	with respect to water
27	DD Name:	IENC	Code:	lc_cse_27	Date accepted:	2001-05-31
	Name:	floating equip	oment			
	Definition: elevators	a floating ins	tallation	carrying working gear	such as cranes, o	dredging equipment, pile drivers or
28	DD Name:	IENC	Code:	lc_cse_28	Date accepted:	2001-05-31
	Name:	worksite craf	t			
	Definition: hopper or p		-	ely built and equipped to n or stone-dumping ve		es, such as a reclamation barge,
29	DD Name:	IENC	Code:	lc_cse_29	Date accepted:	2001-05-31
	Name:	recreational of	craft			
	Definition:	a vessel othe	er than a	a passenger vessel, int	tended for sport or	pleasure
30	DD Name:	IENC	Code:	lc_cse_30	Date accepted:	2001-05-31
	Name:	Dinghy				
	Definition:	a boat for us	e in tran	isport, rescue, salvage	and work duties	
31	DD Name:	IENC	Code:	lc_cse_31	Date accepted:	2001-05-31
	Name:	floating estab	olishmer	nt		
	Definition: jetty or boa		installati	on not normally intend	ed to be moved, s	such as a swimming bath, dock,
32	DD Name:	IENC	Code:	lc_cse_32	Date accepted:	2001-05-31
	Name:	floating object	ct			
	Definition: equipment	a raft or othe or establishme		ure, object or assembly	/ capable of navig	ation, not being a vessel or floating

Attribute	Category of ship (including)
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Acronym: lc_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 Dictio	nary (DD) Ref	ference			
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-motorize			•	
	Definition:	non-motoriz	ed vesse	el		
5	DD Name:	IENC	Code:	lc_csi_5	Date accepted:	2001-05-31
3	Name:	craft	Code.	10_081_3	Date accepted.	2001-03-31
			tem of flu	oating equipment		
	Delimition.	a vesser or r				
6	DD Name:	IENC	Code:	lc_csi_6	Date accepted:	2001-05-31
	Name:	vessel				
	Definition:	an inland wa	aterway v	vessel or sea going sh	iip	
7	DD Name:	IENC	Code:	lc_csi_7	Date accepted:	2001-05-31
	Name:	inland water	way ves	sel		
	Definition:	a vessel inte	ended so	olely or mainly for navi	gation on inland w	aterways

Value	Data Dictio	nary (DD) Ref	erence			
8	DD Name:	IENC	Code:	lc_csi_8	Date accepted:	2001-05-31
	Name:	sea going sh	nip			
	Definition:	a vessel cer	tificated	for sea-going service		
9	DD Name:	IENC	Code:	lc_csi_9	Date accepted:	2001-05-31
	Name:	motor vesse	I			
	Definition:	a motor carg	jo vesse	l or a motor tanker		
10	DD Name:	IENC	Code:	lc_csi_10	Date accepted:	2001-05-31
	Name:	motor tanker				
		a vessel inte wn motive pov		r the carriage of goods	s in fixed tanks and	d built to navigate independently
11	DD Name:	IENC	Code:	lc_csi_11	Date accepted:	2001-05-31
	Name:	motor cargo	vessel			
	Definition: independer	a vessel, oth			ed for the carriage	e of goods and built to navigate
12	DD Name:	IENC	Code:	lc_csi_12	Date accepted:	2001-05-31
	Name:	canal barge				
	Definition: operating o	an inland wa on the Rhine-F	-		38.5 m in length ar	nd 5.05 m in breadth and usually
13	DD Name:	IENC	Code:	lc_csi_13	Date accepted:	2001-05-31
	Name:	tug				
	Definition:	a vessel spe	cially bu	uilt to perform towing o	perations	
14	DD Name:	IENC	Code:	lc_csi_14	Date accepted:	2001-05-31
	Name:	pusher				
	Definition:	a vessel spe	cially bu	uilt to propel a pushed	convoy	
15	DD Name:	IENC	Code:	lc_csi_15	Date accepted:	2001-05-31
	Name:	barge				
	Definition:	a dumb barg	ge or tan	k barge		
16	DD Name:	IENC	Code:	lc_csi_16	Date accepted:	2001-05-31
	Name:	tank barge				
	Definition:	a vessel inte	ended for	r the carriage of goods	s in fixed tanks and	d built to be towed, either having no

Edition 2.6.0 IENC Feature Catalogue

Value Data Dictionary (DD) Reference

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: Ic 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: Ic csi 21 Date accepted: 2001-05-31

> Name: ship borne lighter

a lighter built to be carried aboard sea going ships and to navigate on inland waterways Definition:

22 DD Name: IENC Code: lc_csi_22 Date accepted: 2001-05-31

> Name: passenger vessel

Definition: a day trip or cabin vessel constructed and equipped to carry more than 12 passengers

23 DD Name: IENC Code: Ic csi 23 Date accepted: 2001-05-31

> passenger sailing vessel Name:

Definition: a passenger vessel fitted out mainly with a view to propulsion under sail

24 DD Name: IENC Code: Ic csi 24 Date accepted: 2001-05-31

> Name: day trip vessel

Definition: a passenger vessel without overnight passenger cabins

IENC FC 26.DOCX 485

Value	Data Dictio	Data Dictionary (DD) Reference					
25	DD Name:	IENC	Code:	lc_csi_25	Date accepted:	2001-05-31	
	Name:	cabin vessel					
	Definition:	a passenger	vessel	with overnight passen	ger cabins		
26	DD Name:	IENC	Code:	lc_csi_26	Date accepted:	2001-05-31	
	Name:	High-speed	vessel				
	Definition:	a motorised	vessel c	capable of reaching sp	eeds over 40km/h	with respect to water	
27	DD Name:	IENC	Code:	lc_csi_27	Date accepted:	2001-05-31	
	Name:	floating equip	pment				
	Definition: elevators	a floating ins	stallation	carrying working gear	such as cranes, o	dredging equipment, pile drivers or	
28	DD Name:	IENC	Code:	lc_csi_28	Date accepted:	2001-05-31	
	Name:	worksite craf	t				
	Definition: hopper or p	-		ely built and equipped on or stone-dumping ve		es, such as a reclamation barge,	
29	DD Name:	IENC	Code:	lc_csi_29	Date accepted:	2001-05-31	
	Name:	recreational	craft				
	Definition:	a vessel oth	er than a	a passenger vessel, in	tended for sport o	r pleasure	
30	DD Name:	IENC	Code:	lc_csi_30	Date accepted:	2001-05-31	
	Name:	Dinghy					
	Definition:	a boat for us	se in trar	nsport, rescue, salvage	e and work duties		
31	DD Name:	IENC	Code:	lc_csi_31	Date accepted:	2001-05-31	
	Name:	floating estal	blishmer	nt			
	Definition: jetty or boa		installati	on not normally intend	ed to be moved, s	such as a swimming bath, dock,	
32	DD Name:	IENC	Code:	lc_csi_32	Date accepted:	2001-05-31	
	Name:	floating object	ct				
	Definition: equipment	a raft or othe or establishm		ure, object or assembly	/ capable of navig	ation, not being a vessel or floating	

Attribute	Category of shoreline construction
-----------	------------------------------------

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 (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.

2 DD Name: IENC Code: catslc_2 Date accepted: 2011-05-31

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)

8 DD Name: IENC Code: catslc 8 Date accepted: 2013-01-23

Name: rip rap

Definition: A layer of broken rock, cobbles, boulders, or fragments of sufficient size to resist the erosive

IENC FC 26.DOCX 487

Value Data Dictionary (DD) Reference

forces of flowing water and wave action. (Adapted from Marine Chart Manual, US National Oceanic and Atmospheric Administration - NOAA, 1992)

9 DD Name: IENC Code: catslc 9 Date accepted: 2013-01-23

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)

20 DD Name: IENC Code: catslc_20 Date accepted: 2013-09-23

Name: water intake structure

Definition: a structure designed to divert water from a river or channel for the purpose of water supply, hydroelectric power or irrigation.

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 Diction	nary (DD) Ref	erence			
2	DD Name:	IENC	Code:	catsit_2	Date accepted:	2001-05-31
	Name:	port entry an	d depart	ure		
	Definition:	a signal stati	on for th	e control of vessels e	ntering or leaving	a port.
6	DD Name:	IENC	Code:	catsit_6	Date accepted:	2001-05-31
	Name:	lock				
	Definition:	a signal stati	on for th	e control of vessels en	ntering or leaving	a lock.
8	DD Name:	IENC	Code:	catsit_8	Date accepted:	2001-05-31
	Name:	bridge passa	ge			
	Definition:	a signal stati	on for th	e control of vessels w	ishing to pass unc	ler a bridge.
10	DD Name:	IENC	Code:	catsit_10	Date accepted:	2001-05-31
	Name:	oncoming tra	iffic indic	cation		
	Definition:	indicates the	oncomi	ng 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 Diction	nary (DD) Ref	erence			
15	DD Name:	IENC	Code:	catsiw_15	Date accepted:	2001-05-31
	Name:	high water m	ark			
	Definition:	An indication	of the o	official high water level	l.	
16	DD Name:	IENC	Code:	catsiw_16	Date accepted:	2001-05-31
	Name:	vertical clear	ance ind	lication		
	Definition:	An indication	of the v	vertical clearance of a	bridge, overhead	cable, etc.
18	DD Name:	IENC	Code:	catsiw_18	Date accepted:	2001-05-31
	Name:	depth indicat	ion			
	Definition:	An indication	of the le	ocal depth.		
1	DD Name:	HYDRO	Code:	catsiw_1	Date accepted:	2001-11-01
	Name:	danger				
	Definition:	A signal or m	nessage	warning of the preser	nce of a danger to	navigation.

Attribute

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

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 Dictio	nary (DD) Ref	erence			
1	DD Name:	IENC	Code:	catvtr_1	Date accepted:	2001-05-31
	Name:	official				
	Definition:	Of or relating	g to an c	office or a post of author	ority	
2	DD Name:	IENC	Code:	catvtr_2	Date accepted:	2001-05-31
	Name:	private				
	Definition:	Belonging to	a partic	cular person or person	s, as opposed to t	he public or the government
3	DD Name:	IENC	Code:	catvtr_3	Date accepted:	2001-05-31
	Name:	suitable for o	ar crane	es		
	Definition:	Vehicle trans	sfer loca	tion is suitable for car	cranes	
4	DD Name:	IENC	Code:	catvtr_4	Date accepted:	2001-05-31
	Name:	suitable for o	ar plank	is .		
	Definition:	Vehicle trans	sfer loca	tion is suitable for car	planks	
5	DD Name:	IENC	Code:	catvtr_5	Date accepted:	2001-05-31
	Name:	permission re	equired			
	Definition:	The transfer	of a veh	nicle requires permissi	on.	
6	DD Name:	IENC	Code:	catvtr_6	Date accepted:	2001-05-31
	Name:	locked gate				
	Definition:	The access	to the pu	ublic road is locked.		

Attribute Category or voltage	Attribute	Category of voltage
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Acronym: catvol Code: 18031

Use Type: F
Value Type: L

Data Dictionary (DD) Reference:

DD Name: IENC Date accepted: 2014-11-26

Definition: The electrical voltage provided by the power supply station

Enumerations:

Value Data Dictionary (DD) Reference

1 DD Name: IENC Code: catvol_1 Date accepted: 2014-11-26

Name: 230V

Definition: 230 Volts

2 DD Name: IENC Code: catvol_2 Date accepted: 2014-11-26

Name: 400V

Definition: 400 Volts

Attribute	Category of waterway gauge

Acronym: catgag Code: 17078

Use Type: F
Value Type: L

Data Dictionary (DD) Reference:

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

Definition: Category of waterway gauge

DD Name: IENC

Name:

Enumerations:

5

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 recording water level gauge Name: 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) DD Name: IENC 4 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)

IENC FC 26.DOCX 494

Definition: recording gauge providing information remotely by any method and providing information of the

recording water level gauge with remote access and remote indicator

water level via a large external indicator. (adopted from DIN 4049 - Section 3, Oct. 1994)

Code: catgag_5

Date accepted: 2001-05-31

Attribute	Class of dangerous cargo

Acronym: clsdng Code: 17055

Use Type: F
Value Type: E

Data Dictionary (DD) Reference:

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

Definition: Class of dangerous cargo

Enumerations:

Value	Data Dictio	nary (DD) Ref	ference			
1	DD Name:	IENC	Code:	clsdng_1	Date accepted:	2001-05-31
	Name:	one blue ligh	nt / cone			
	Definition:	Vessels carr	ying out	transport operations i	nvolving certain fla	ammable substances
2	DD Name:	IENC	Code:	clsdng_2	Date accepted:	2001-05-31
	Name:	two blue ligh	ts / cone	es		
	Definition: hazards	Vessels carr	ying out	transport operations i	nvolving certain s	ubstances constituting health
3	DD Name:	IENC	Code:	clsdng_3	Date accepted:	2001-05-31
	Name:	three blue lig	jhts / coi	nes		
	Definition:	Vessels carr	ying out	transport operations i	nvolving certain e	xplosives
4	DD Name:	IENC	Code:	clsdng_4	Date accepted:	2001-05-31
	Name:	no blue light	/ cone			
	Definition: required	Vessels carr	ying out	transport operations t	for which no blue l	ight or blue cone is
5	DD Name:	IENC	Code:	clsdng_5	Date accepted:	2009-12-09
	Name:	one red light	/ red co	ne top down		
	Definition:	Russian inla	nd wate	rway regulations: vess	sels with one red li	ght / red cone top down

	Attri	ibute	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	
---	--

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

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 article/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 Diction	onary (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:	Definition: toward the right side of the bank							
5	DD Name:	IENC	Code:	dirimp_5	Date accepted:	2010-08-12			
	Name:	to harbor							
	Definition:	to an harbor							

Attribute	Distance from notice mark, first

Acronym: disbk1 Code: 17057

Use Type: F
Value Type: F

Data Dictionary (DD) Reference:

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

Definition: Minimum distance of the impact of an area, which is signed by notice marks. The distance is measured

from the notice mark rectangular to the bank

Attribute	Distance from notice mark, second					
Acronym:	disbk2	Code:	17058			

Use Type: F
Value Type: F

Data Dictionary (DD) Reference:

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

Definition: Maximum distance of the impact of an area, which is signed by notice marks. The distance is measured

from the notice mark rectangular to the bank

Attribute	Distance of impact, downstream		
Acronym:	disipd	Code:	17060
Use Type:	F		
Value Type:	F		

Data Dictionary (DD) Reference:

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

Definition: Downstream distance of the impact of an area, which is signed by notice marks. The distance is normally

given on an additional mark left and/or right of the notice mark

Attribute	Distance of impact, upstream
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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	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)
-----------	----------------------------

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	Elevation of water level
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Acronym: elevwl Code: 18050

Use Type: F
Value Type: F

Data Dictionary (DD) Reference:

DD Name: IENC Date accepted: 2020-01-24

Definition: Elevation of the water level of a specified object point measured from the reference gravitational level

defined in reflev

Attribute	Function of notice mark		
Acronym:	fnctnm	Code:	17063

Use Type: F
Value Type: E

Data Dictionary (DD) Reference:

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

Definition: Function of a notice mark

Enumerations:

Value	Data Dictio	nary (DD) Ref	erence			
1	DD Name:	IENC	Code:	fnctnm_1	Date accepted:	2001-05-31
	Name:	prohibition m	ark			
	Definition:	marks which	indicate	e a prohibition		
2	DD Name:	IENC	Code:	fnctnm_2	Date accepted:	2001-05-31
	Name:	regulation ma	ark			
	Definition:	marks which	indicate	e a regulation		
3	DD Name:	IENC	Code:	fnctnm_3	Date accepted:	2001-05-31
	Name:	restriction ma	ark			
	Definition:	marks which	indicate	e a restriction		
4	DD Name:	IENC	Code:	fnctnm_4	Date accepted:	2001-05-31
	Name:	recommenda	ation ma	rk		
	Definition:	marks which	indicate	e a recommendation		
5	DD Name:	IENC	Code:	fnctnm_5	Date accepted:	2001-05-31
	Name:	information n	nark			
	Definition:	marks with g	jeneral ii	nformation		

Attribute Function of sensor

Acronym: fnctsn Code: 18020

Use Type: F
Value Type: L

Data Dictionary (DD) Reference:

DD Name: IENC Date accepted: 2011-12-19

Definition: Function of sensor

Enumerations:

Value Data Dictionary (DD) Reference

1 DD Name: IENC Code: fnctsn_1 Date accepted: 2011-12-19

Name: reduce bridge lighting

Definition:

Attribute	Height/length units	
Acronym:	hunits	Code: 17103
Use Type:	F	

Data Dictionary (DD) Reference:

Ε

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

Definition: Units of measure of waterway distances

Enumerations:

Value Type:

Value	Data Dictio	onary (DD) Ref	erence			
1	DD Name:	IENC	Code:	hunits_1	Date accepted:	2001-05-31
	Name:	metres				
	Definition:	heights/lengt	ths are s	specified in metres (SI	units of length)	
2	DD Name:	IENC	Code:	hunits_2	Date accepted:	2001-05-31
	Name:	feet				
	Definition:	heights/lengt	ths are s	specified in feet (impe	rial units of length)	
3	DD Name:	IENC	Code:	hunits_3	Date accepted:	2001-05-31
	Name:	kilometres				
	Definition:	heights/lengt	ths are s	specified in kilometres	(1000 metres)	
4	DD Name:	IENC	Code:	hunits_4	Date accepted:	2001-05-31
	Name:	hectometres				
	Definition:	heights/lengt	hs are s	specified in hectometre	es (100 metres)	
5	DD Name:	IENC	Code:	hunits_5	Date accepted:	2001-05-31
	Name:	statute miles				
	Definition:	heights/lengt	ths are s	specified in statue (lan	nd) miles	
6	DD Name:	IENC	Code:	hunits_6	Date accepted:	2001-05-31
	Name:	nautical miles	S			
	Definition:	heights/lengt	hs are s	specified in nautical (s	ea) miles	

Attribute	Horizontal clearance length	
Acronym:	horcll	Code: 17074
Use Type:	F	

Data Dictionary (DD) Reference:

F

Value Type:

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

Definition: The length of an object, such as a lock or basin, which is available for safe navigation. This may, or may

not, be the same as the total physical length (HORLEN) of the object

Attribute	Horizontal clearance width		
Acronym:	horclw	Code:	17075

Use Type: F
Value Type: F

Data Dictionary (DD) Reference:

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

Definition: The width of an object, such as a lock or basin, which is available for safe navigation. This may, or may not,

be the same as the total physical width (HORWID) of the object

Attribute	Location Maritime Resource Name
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Acronym: locmrn Code: 18051

Use Type: F Value Type: T

Data Dictionary (DD) Reference:

DD Name: IENC Date accepted: 2023-11-22

Definition: The attribute locMRN should be used to encode the Maritime Resource Name (MRN)

Attribute	Marks navigational - System of

Acronym: marsys Code: 17009

Use Type: F
Value Type: E

Data Dictionary (DD) Reference:

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

Definition: System of navigational marks

Enumerations:

Value	Data Dictio	nary (DD) Ref	ference			
					Data assessed	2004 05 24
1	DD Name:		Code:	marsys_1	Date accepted:	2001-05-31
	Name:	IALA A				
	Definition: system.	navigational	aids cor	nform to the Internatio	nal Association of	Lighthouse Authorities - IALA A
2	DD Name:	IENC	Code:	marsys_2	Date accepted:	2001-05-31
	Name:	IALA B				
	Definition: system.	navigational	aids cor	nform to the Internatio	nal Association of	Lighthouse Authorities - IALA B
9	DD Name:	IENC	Code:	marsys_9	Date accepted:	2001-05-31
	Name:	no system				
	Definition:	navigational	aids do	not conform to any de	efined system.	
10	DD Name:	IENC	Code:	marsys_10	Date accepted:	2001-05-31
	Name:	other system	1			
	Definition: Lighthouse	navigational Authorities -l		nform to a defined sys	tem other than Int	ernational Association of
11	DD Name:	IENC	Code:	marsys_11	Date accepted:	2001-05-31
	Name:	main Europe	an inlan	d waterway marking s	ystem	
	Definition: same navig	•		•		ional regulations that contain the N/ECE, or if there is no regulation

IENC_FC_26.DOCX 515

for a waterway, navigational aids as recommended in the European Code for Inland Waterways of UN/ECE

Value	Data Diction	nary (DD) Refe	erence			
	(for notice r	narks see Anr	nex AA c	of the Encoding Guide	for Inland ENCs)	
12	DD Name:	IENC	Code:	marsys_12	Date accepted:	2001-05-31
	Name:	Russian inlar	nd water	way regulations		
	Definition:	navigational	aids con	form to the Russian ir	nland waterway re	gulations.
13	DD Name:	IENC	Code:	marsys_13	Date accepted:	2009-09-11
	Name:	Brazilian nati	onal inla	and waterway regulation	n	
	Definition:	navigational	aids con	nform to the Brazilian r	national inland wat	erway regulation.
15	DD Name:	IENC	Code:	marsys_15	Date accepted:	2009-09-11
	Name:	Paraguay-Pa	rana wa	terway - Brazilian com	plementary aids	
	Definition:	Brazilian con	nplemen	tary navigational aids	on the Paraguay-l	Parana waterway

Attribute	Maximal permitted beam	
Acronym:	lg_bme	Code: 18003
Use Type:	F	

Data Dictionary (DD) Reference:

F

Value Type:

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:

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

The maximal permitted draught of a vessel or convoy according to the particular article/clause of the Definition:

applicable law/regulation

Attribute	Maximal permitted length

Acronym: lg_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	Maximal permitted speed		
Acronvm:	la spd	Code:	18001

Use Type: F
Value Type: F

Data Dictionary (DD) Reference:

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

Definition: The maximal permitted vessel speed according to the particular article/clause of the applicable

law/regulation

Attribute	Maximal permitted water displacement	
Acronym:	lg_wdp	Code: 18006
Use Type:	F	
Value Type:	F	

Data Dictionary (DD) Reference:

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

Definition: The maximal permitted water displacement of a vessel or convoy according to the particular article/clause

of the applicable law/regulation

Attribute MMSI Code

Acronym: mmsico Code: 18046

Use Type: F
Value Type: I

Data Dictionary (DD) Reference:

DD Name: IENC Date accepted: 2017-05-30

Definition: Maritime Mobile Service Identity code

Attribute	Name of other locally relevant water level

Acronym: othnam Code: 17087

Use Type: F Value Type: T

Data Dictionary (DD) Reference:

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

Definition: Name of the water level, which is used for the attribute othwat (value at other locally relevant water level)

including version identification, for example year of issue or period

Attribute	Name of relevant high water level	
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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

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 meawat (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

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	Number of shore connectors
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Acronym: shrnum Code: 18035

Use Type: F
Value Type: I

Data Dictionary (DD) Reference:

DD Name: IENC Date accepted: 2014-11-26

Definition: The number of shore connectors available at the power supply station.

Attribute	Publication reference

Acronym: lg_pbr Code: 18011

Use Type: F Value Type: T

Data Dictionary (DD) Reference:

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

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

vessel dimensions exists

Attribute	Reference Gauge	
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Acronym: refgag Code: 18018

Use Type: F Value Type: T

Data Dictionary (DD) Reference:

DD Name: IENC Date accepted: 2013-01-11

Definition: The ISRS code of the gauge, or the acronym of the gauge, which can be used to calculate the vertical

clearance.

Edition 2.6.0 IENC Feature Catalogue

Attribute	Reference gravitational level
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reflev Code: 17088 Acronym:

F Use Type: Value Type: Ε

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 Heights System) - The unified State system for absolute heights 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

> Adriatic level Name:

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

> Amsterdam Ordnance Datum (NAP) Name:

Definition: Dutch gravitational reference level that is approximately the average 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:

532 IENC FC 26.DOCX

Value Data Dictionary (DD) Reference

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

geodetic leveling observations in Canada, the United States, and Mexico.

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.

10 DD Name: IENC Code: reflev_10 Date accepted: 2015-03-09

Name: Tweede Algemene Waterpassing (TAW)

Definition: All heights in Belgium are referenced to TAW

Attribute	Related issue

Acronym: lg_rel Code: 18008

Use Type: F
Value Type: L

Data Dictionary (DD) Reference:

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

Definition: Indication of the related legal issue

Enumerations:

Value	Data Diction	nary (DD) Ref	erence			
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 wat	erway			
	Definition:					
3	DD Name:	IENC	Code:	lg_rel_3	Date accepted:	2001-05-31
	Name:	carriage of e	quipmen	nt		
	Definition:					
4	DD Name:	IENC	Code:	lg_rel_4	Date accepted:	2001-05-31
	Name:	task,operatio	n			
	Definition:					

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)

accordance was contain opening containers. (adapted nom in a zienemary, e cz., car zamen, rec

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.

IENC FC 26.DOCX 535

Value	Data Dictio	nary (DD) Re	ference			
14	DD Name:	IENC	Code:	restrn_14	Date accepted:	2001-05-31
	Name:	area to be a	voided			
	Definition: Chart Spec	an IMO desi cifications, M-4	•		fined as a routein	g measure. (adapted from IHO
27	DD Name:	IENC	Code:	restrn_27	Date accepted:	2001-05-31
	Name:	speed restric	cted			
	Definition:	an area with	in which	speed is restricted.		
28	DD Name:	IENC	Code:	restrn_28	Date accepted:	2001-05-31
	Name:	overtaking p	rohibited	i		
	Definition: prohibited	a specified a	area des	ignated by appropriate	e authority, within	which overtaking is generally
29	DD Name:	IENC	Code:	restrn_29	Date accepted:	2001-05-31
	Name:	overtaking o	f convoy	s by convoys prohibite	ed	
	Definition: prohibited	a specified a	area des	ignated by appropriate	e authority, within v	which overtaking between convoys
30	DD Name:	IENC	Code:	restrn_30	Date accepted:	2001-05-31
	Name:	passing or o	vertakin	g prohibited		
	Definition: generally p	•	area des	ignated by appropriate	e authority, within v	which passing or overtaking is
31	DD Name:	IENC	Code:	restrn_31	Date accepted:	2001-05-31
	Name:	berthing pro	nibited			
	Definition: floating ma	•		ignated by appropriate lishments may not ber	<u> </u>	which vessels, assemblies of
32	DD Name:	IENC	Code:	restrn_32	Date accepted:	2001-05-31
	Name:	berthing rest	ricted			
	Definition:	a specified a	area des	ignated by appropriate	e authority, within	which berthing is restricted
33	DD Name:	IENC	Code:	restrn_33	Date accepted:	2001-05-31
	Name:	making fast	prohibite	ed		
	Definition: floating ma	•		ignated by appropriate lishments may not ma	-	which vessels, assemblies of K.
34	DD Name:	IENC	Code:	restrn_34	Date accepted:	2001-05-31

Value Data Dictionary (DD) Reference 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 restricted fairway depth Name: an area within which the fairway depth is restricted. Definition: 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. 38 DD Name: IENC Code: restrn 38 Date accepted: 2014-11-26 Name: use of spuds prohibited the use of anchoring spuds (telescopic piles) is prohibited Definition: 40 DD Name: IENC Code: restrn_40 Date accepted: 2017-11-06

DD Name: IENC Code: restrn_41 Date accepted: 2017-11-06

Name: NOx emission restricted

SOx emission restricted

Name:

Definition: AN area within which the emission of Nox is restricted.

Definition: An area within which the emission of Sox is restricted.

Attribute	Sounding datum reference level value
/ ttt ibato	Countries determined to voi value

Acronym: sdrval Code: 18049

Use Type: F
Value Type: F

Data Dictionary (DD) Reference:

DD Name: IENC Date accepted: 2019-11-13

Definition: Local value of the sounding datum reference level.

Attribute

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:

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 subtracting 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 Dictio	nary (DD) Ref	erence			
1	DD Name:	IENC	Code:	trshgd_1	Date accepted:	2001-05-31
	Name:	containers				
	Definition:	boxes for ca	rgo tran	sport with standardize	d dimensions.	
2	DD Name:	IENC	Code:	trshgd_2	Date accepted:	2001-05-31
	Name:	bulk goods				
	Definition:	unpacked bu	ılk cargo	o in the same or a sim	lar kind of nature	(homogeneous).
3	DD Name:	IENC	Code:	trshgd_3	Date accepted:	2001-05-31
	Name:	oil				
	Definition:	Mineral oil o	r liquid p	petrolatum, a by-produ	ct in the distillatior	n of petroleum to produce gasoline.
4	DD Name:	IENC	Code:	trshgd_4	Date accepted:	2001-05-31
	Name:	fuel				
	Definition:	liquid fuel, e	.g. gaso	line, diesel.		
5	DD Name:	IENC	Code:	trshgd_5	Date accepted:	2001-05-31
	Name:	chemicals				
	Definition:	any material	used in	or obtained by a proc	ess in chemistry.	
6	DD Name:	IENC	Code:	trshgd_6	Date accepted:	2001-05-31
	Name:	liquid goods				
	Definition:	fluids whose	shape i	s usually determined l	by the container it	fills.

Value Data Dictionary (DD) Reference

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

	Type of AtoN	Attribute
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Acronym: typatn Code: 18047

Use Type: F
Value Type: L

Data Dictionary (DD) Reference:

DD Name: IENC Date accepted: 2019-10-23

Definition: The type of AtoN being referenced

Enumerations:

Value Data Dictionary (DD) Reference

1 DD Name: IENC Code: typatn 1 Date accepted: 2019-10-23

Name: Aid to Navigation

Definition: Aid to Navigation

DD Name: IENC Code: typatn_2 Date accepted: 2019-10-23

Name: Physical AIS Aid to Navigation

Definition: An AIS station located on an existing physical aid to navigation

DD Name: IENC Code: typatn_3 Date accepted: 2019-10-23

Name: Virtual AIS Aid to Navigation

Definition: An electronically charted, but non-existent as a physical aid to navigation

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 Dictio	nary (DD) Ref	erence			
1	DD Name:	IENC	Code:	shptyp_1	Date accepted:	2001-05-31
	Name:	general carg	o vessel	I		
	Definition:	a vessel whi	ch is de	signed for carrying gei	neral cargo, e.g. b	oxes, sacks.
2	DD Name:	IENC	Code:	shptyp_2	Date accepted:	2001-05-31
	Name:	container ve	ssel			
	Definition:	a vessel whi	ch is de	signed for carrying cor	ntainers.	
3	DD Name:	IENC	Code:	shptyp_3	Date accepted:	2001-05-31
	Name:	tanker				
	Definition:	a vessel whi	ch is de	signed for carrying liqu	uid goods, e.g. oil	or water.
4	DD Name:	IENC	Code:	shptyp_4	Date accepted:	2001-05-31
	Name:	sailing vesse	el			
	Definition:	a vessel that	t is powe	ered by the wind; ofter	n having several m	asts.
5	DD Name:	IENC	Code:	shptyp_5	Date accepted:	2001-05-31
	Name:	fishing vesse	el			
	Definition:	a vessel that	t is used	l and equipped for the	fishing of living ac	uatic resources.
6	DD Name:	IENC	Code:	shptyp_6	Date accepted:	2001-05-31
	Name:	special purpo	ose vess	sel.		
	Definition:	a vessel that	t fulfills s	special purposes e.g. h	novercrafts, pilot b	oats

Value	Data Dictio	nary (DD) Ref	erence			
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	t is capa	ble of operating for an	extended period	of time underwater.
9	DD Name:	IENC	Code:	shptyp_9	Date accepted:	2001-05-31
	Name:	high speed o	raft			
	Definition:					
10	DD Name:	IENC	Code:	shptyp_10	Date accepted:	2001-05-31
	Name:	bulk carrier				
	Definition:	a vessel whi	ch is de	signed for carrying bul	k goods, e.g. coal	, ore or grain.
11	DD Name:	IENC	Code:	shptyp_11	Date accepted:	2001-05-31
	Name:	seaplane				
	Definition:	airplane des	igned to	take off from and aligi	ht on water.	
12	DD Name:	IENC	Code:	shptyp_12	Date accepted:	2001-05-31
	Name:	tugboat				
	Definition:	a powerful s	mall boa	t designed to pull or p	ush larger ships o	r powerless barges.
13	DD Name:	IENC	Code:	shptyp_13	Date accepted:	2001-05-31
	Name:	passenger v	essel			
	Definition:	a vessel whi	ch is de	signed for carrying pas	ssengers and whic	ch serves mainly as cruise vessel.
14	DD Name:	IENC	Code:	shptyp_14	Date accepted:	2001-05-31
	Name:	ferry				
	Definition: scheduled		ch is de	signed for carrying pas	ssengers, and son	netimes their vehicles, on
15	DD Name:	IENC	Code:	shptyp_15	Date accepted:	2001-05-31
	Name:	boat				
	Definition:	a small vess	el.			

Attribute UN location	ode
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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

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

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 importance 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

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	ow wate	er				
	Definition: Dictionary,	(MLLW) - the S-32, 5th Edit	-	•	ow waters at a pla	ice over a 19-year period. (IHO		
31	DD Name:	IENC	Code:	verdat_31	Date accepted:	2001-05-31		
	Name:	Local low wa	iter refer	rence level				
	Definition:	low water re	ference	level of the local area				
32	DD Name:	IENC	Code:	verdat_32	Date accepted:	2001-05-31		
	Name:	Local high w	ater refe	erence level				
	Definition:	high water re	eference	e level of the local area	1			
33	DD Name:	IENC	Code:	verdat_33	Date accepted:	2001-05-31		
	Name:	Local mean	water re	ference level				
	Definition:	mean water	referenc	ce level of the local are	ea			
34	DD Name:	IENC	Code:	verdat_34	Date accepted:	2001-05-31		
	Name:	Equivalent height of water (German GlW)						
	Definition: discharge".		level wh	ich is the result of a de	efined low water d	ischarge - called "equivalent		
35	DD Name:	IENC	Code:	verdat_35	Date accepted:	2001-05-31		

Value	Data Dictio	ata Dictionary (DD) Reference				
	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 Ic	w water	level according to Da	nube Commission	
	Definition:	The water le	vel at a	discharge, which is ex	ceeded 94 % of the	ne year within a period of 30 years.
37	DD Name:	IENC	Code:	verdat_37	Date accepted:	2001-05-31
	Name:	Highest ship	ping hei	ght of water according	to Danube Comm	nission
	Definition:	The water le	vel at a	discharge, which is ex	ceeded 1 % of the	e year within a period of 30 years.
38	DD Name:	IENC	Code:	verdat_38	Date accepted:	2001-05-31
	Name:	Dutch river lo	ow watei	r reference level (OLR)	
	Definition:	The water le	vel at a	discharge, which is ex	ceeded 95 % of the	ne year within a period of 20 years.
39	DD Name:	IENC	Code:	verdat_39	Date accepted:	2001-05-31
	Name:	Russian proj	ect wate	er level		
	Definition: HDNO, 198		low wate	er level with establishe	d probability (Hyd	rographic Terminology Dictionary,
40	DD Name:	IENC	Code:	verdat_40	Date accepted:	2001-05-31
	Name:	Russian nor	mal back	water level		
	Definition: the normal	-		derived from the upper s. (Hydrographic Termi		n in watercourse or reservoir under , HDNO, 1984).
41	DD Name:	IENC	Code:	verdat_41	Date accepted:	2001-05-31
	Name:	Ohio River D	atum			
	Definition:					
42	DD Name:	IENC	Code:	verdat_42	Date accepted:	2015-02-23
	Name:	Approximate	LAT			
	Definition:					
43	DD Name:	IENC	Code:	verdat_43	Date accepted:	2015-02-23
	Name:	Dutch High \	Nater Re	eference Level (MHW)		
	Definition:					
24	DD Name:	HYDRO	Code:	VERDAT_24	Date accepted:	2000-11-01

Value Data Dictionary (DD) Reference

Name: Local datum

Definition: an arbitrary datum defined by a local harbour authority, from which leves and tidal heights are

measured by this authority.

23 DD Name: HYDRO Code: VERDAT 23 Date accepted: 2000-11-01

Name: Lowest astronomical tide

Definition: (LAT) - the lowest tide level which can be predicted to occur under average meterological conditions and under any combination of astronomical conditions. (IHO Dictionary, S-32, 5th Edition, 2936)

30 DD Name: HYDRO Code: VERDAT_30 Date accepted: 2000-11-01

Name: Highest astronomical tide

Definition: (HAT) - the highest tidal level which can be predicted to occur under average meteorological conditions and under any combination of astronomical conditions. (IHO Dictionary, S-32, 5th Edition, 2244).

45 DD Name: IENC Code: verdat_45 Date accepted: 2019-10-08

Name: Dutch estuary low water reference level (OLW)

Definition:

Attribute	Vertical river datum reference level value	
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Acronym: vcrval Code: 18048

Use Type: F
Value Type: F

Data Dictionary (DD) Reference:

DD Name: IENC Date accepted: 2019-11-13

Definition: Local value of the vertical clearance reference level.

Attribute	Water displacement unit			
Acronym:	lg_wdu	Code:	18007	

Use Type: F

Value Type: E

Data Dictionary (DD) Reference:

Definition:

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 Date accepted: Code: lg_wdu_1 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

Edition 2.6.0 IENC Feature Catalogue

Attribute Water level effect

Acronym: watlev Code: 17104

Use Type: Value Type: Ε

Data Dictionary (DD) Reference:

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

Effect of water level Definition:

Enumerations:

Value Data Dictionary (DD) Reference

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

> Name: partly submerged at high water

Definition: partially covered and partially dry at high water.

2 DD Name: IENC Code: watlev 2 Date accepted: 2001-05-31

> Name: always dry

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

3 DD Name: IENC Code: watlev_3 Date accepted: 2001-05-31

> Name: always under water/submerged

Definition: remains covered by water at all times under average meteorological conditions.

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

> 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

557 IENC FC 26.DOCX

Value Data Dictionary (DD) Reference

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

Attribute	Waterway distance	
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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