IENC Feature Catalogue-DRAFT

Edition 2.5.0

2020-04-06

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

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

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 = "1"
HORACC	0	unit = "m" decimal digits = "1"

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

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

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

Attribute Bindings:

acronym	usage	constraints
JRSDTN	M	value list = "1,2,3"
NATION	M	format = "cc"
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
Type:	0		
Primitive:	N		

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,cccc,c"

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

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	М	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
Type:	0		
Primitive:	N		

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,ccccc,c"

Feature	Beacon, cardinal		
Acronym:	BCNCAR	Code:	5
Type:	G		
Primitive:	Р		

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,cccc,c"
TXTDSC	0	
NTXTDS	0	
STATUS	0	value list = "5"

Feature	Beacon, isolated danger		
Acronym:	BCNISD	Code:	6
Type:	G		
Primitive:	Р		

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	M	value list = "1,2,3,4,5"
COLOUR	M	value list = "2,3"
COLPAT	M	value list = "1"
CONRAD	0	value list = "3"
DATSTA	Ο	format = "ccyymmdd"
DATEND	0	format = "ccyymmdd"
PERSTA	Ο	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,ccccc,c"

acronvm	usage	constraints

NTXTDS O

STATUS O value list = "5"

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

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,cccc,c"
NTXTDS	0	
STATUS	0	value list = "5"

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

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	0	
NTXTDS	0	
DATSTA	0	format = "ccyymmdd"
DATEND	0	format = "ccyymmdd"
PERSTA	Ο	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,cccc,c""

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

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	Ο	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	M	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	M	value list = "1,2,3,4,5,6,7,8,9,10,11,12,13"
CONRAD	M	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	0	
SORDAT	С	format = "ccyymmdd"
SORIND	С	format = "cc,cc,cccc,c"
STATUS	0	value list = "5"

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

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

Definition: A relatively permanent structure, roofed and usually walled. It is designed for some particular use which it

may be important to indicate. (Digital Geographic Information Working Group, Oct.87)

Attribute Bindings:

acronym	usage	constraints
CONVIS	0	value list = "1,2"
FUNCTN	С	value list = "2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,3 5,36,37,38,39,40,41,42"
CONDTN	0	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,cccc,c"
NTXTDS	0	

Feature	Built-up area		
Acronym:	BUAARE	Code:	13
Type:	G		
Primitive:	P,A		

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	M	min = "1"
PICREP	0	
TXTDSC	0	
SORDAT	С	format = "ccyymmdd"
SORIND	С	format = "cc,cc,cccc,c"
NTXTDS	0	
unlocd	С	

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

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 = "xxxxxxxxx"
STATUS	0	value list = "5"

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

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	0	
mmsico	0	format = "xxxxxxxxxx"
STATUS	0	value list = "5"

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

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		

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	М	value list = "1,2,3,4,5,6"
CONRAD	С	value list = "3"
MARSYS	С	value list = "1,2"
DATSTA	0	format = "ccyymmdd"
DATEND	0	format = "ccyymmdd"
PERSTA	0	format = "ccyymmdd"
PEREND	0	format = "ccyymmdd"
OBJNAM	0	
NOBJNM	0	
INFORM	0	
NINFOM	0	
SCAMIN	М	min = "1"
PICREP	0	
TXTDSC	0	
SORDAT	С	format = "ccyymmdd"
SORIND	С	format = "cc,cc,cccc,c"

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

Feature	Buoy, special purpose/general		
Acronym:	BOYSPP	Code:	19
Type:	G		
Primitive:	P		

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

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

specific purposes. (IHO Dictionary, S-32, 5th Edition, 565). A special purpose buoy, is primarily used to indicate an area or feature, the nature of which is apparent from reference to a chart, Sailing Directions or Notices to Mariners. (UKHO NP 735, 5th Edition). Buoy in general: A buoy, whose appearance or purpose

is not adequately known.

Attribute Bindings:

acronym	usage	constraints
BOYSHP	М	value list = "1,2,3,4,5,6,8"
CATSPM	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"
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	0	

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 = "xxxxxxxxx"
STATUS	0	value list = "5"

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

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,cccc,c"
NTXTDS	0	
DATSTA	0	format = "ccyymmdd"
DATEND	0	format = "ccyymmdd"

Feature	Cable, submarine		
Acronym:	CBLSUB	Code:	22
Type:	G		
Primitive:	L		

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

Definition: An assembly of wires or fibres, or a wire rope or chain which has been laid underwater or buried beneath

the seabed (Hydrographic Service, Royal Australian Navy)

Attribute Bindings:

acronym	usage	constraints
CATCBL	0	value list = "1,3,4,5,6"
STATUS	С	value list = "5,18"
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	Canal		
Acronym:	CANALS	Code:	23
Type:	G		
Primitive:	L,A		

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		

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		

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	M	value list = "2,4"
SCAMIN	M	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		

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

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

navigation.

Attribute Bindings:

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

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,cccc,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		

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	0	value list = "1,2,3,4,5,6,7,8,9,10,11"
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,ccccc,c"
NTXTDS	0	
HORACC	Ο	decimal digits = "2" unit = "m"
VERACC	Ο	unit = "m" decimal digits = "2"
CATTEV	0	value list = "4,5,6"

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

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	M	value list = "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,cccc,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	

Feature	Coverage		
Acronym:	M_COVR	Code:	302
Type:	M		
Primitive:	A		

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,cccc,c"

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

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

Definition: A machine for lifting, shifting and lowering objects or materials by means of a swinging boom or with a

lifting apparatus supported on an overhead track. (Digital Geographic Information Working Group, Oct.87)

Attribute Bindings:

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

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

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

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"

acronvm	usage	constraints
acioniviii	usauc	COHSHAIIIS

NTXTDS O

STATUS O value list = "5"

Feature	Depth area		
Acronym:	DEPARE	Code:	42
Type:	G		
Primitive:	A		

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	Ο	
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	Ο	unit = "m" decimal digits = "2"
CATTEV	0	value list = "4,5,6"

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

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	М	unit = "m" decimal digits = "2"
SCAMIN	М	min = "1"
SORDAT	С	format = "ccyymmdd"
SORIND	С	format = "cc,cc,cccc,c"
PICREP	0	
INFORM	0	
NINFOM	0	
HORACC	0	unit = "m" decimal digits = "2"
VERACC	0	unit = "m" decimal digits = "2"
CATTEV	Ο	value list = "4,5,6"

Feature	Dredged area		
Acronym:	DRGARE	Code:	46
Type:	G		
Primitive:	A		

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	Ο	unit = "m" decimal digits = "2"
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	
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
Type:	G		
Primitive:	A		

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	Ο	unit = "m" decimal digits = "2"
HORWID	Ο	unit = "m" decimal digits = "2"
CONDTN	Ο	value list = "1,2,3,5"
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	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
Type:	G		
Primitive:	A		

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		

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

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

Edition, 1361)

Attribute Bindings:

acronym	usage	constraints
HEIGHT	0	unit = "m" 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	
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		

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		

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

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

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

Definition: A route in a body of water where a ferry crosses from one shoreline to another. (Digital Geographic

Information Working Group, Oct.87)

Attribute Bindings:

acronym	usage	constraints
CATFRY	М	value list = "1,2"
STATUS	С	value list = "2,3,4,5,8,9,12,14,16,17"
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,ccccc,c"
NTXTDS	0	
unlocd	С	

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

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

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

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

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

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

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

Attribute Bindings:

acronym	usage	constraints
DRVAL1	0	unit = "m" 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	

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

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	0	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	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	
STATUS	0	value list = "5"

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

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

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

Attribute Bindings:

acronym	usage	constraints
CATFOR	М	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:	A		

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

Definition: A port where certain import and export duties are waived (unless goods pass into the country) to facilitate

reshipment to other countries. (IHO Dictionary, S-32, 5th Edition, 1927)

Attribute Bindings:

acronym	usage	constraints
CONDTN	Ο	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		

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 = "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,cccc,c"
NTXTDS	0	
vcrlev	0	
vcrval	0	unit = "m" decimal digits = "2"
HORACC	0	unit = "m" decimal digits = "2"

acronym	110000	constraints
acronvm	usage	COHSHAIIIS

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

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

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

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	М	min = "1"
SORDAT	С	format = "ccyymmdd"
SORIND	С	format = "cc,cc,cccc,c"
PICREP	0	
TXTDSC	0	
NTXTDS	0	

Feature	Harbour facility		
Acronym:	HRBFAC	Code:	64
Туре:	G		
Primitive:	P,A		

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

Feature	Hulk
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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	M	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,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"

Feature	Lake		
Acronym:	LAKARE	Code:	69
Type:	G		
Primitive:	A		

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
Type:	G		
Primitive:	P,L,A		

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,cccc,c"
NTXTDS	0	

Feature	Land region		
Acronym:	LNDRGN	Code:	73
Type:	G		
Primitive:	P,A		

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	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	
CATLND	0	value list = "2,9,11,12"

Feature	Landmark		
Acronym:	LNDMRK	Code:	74
Type:	G		
Primitive:	P,A		

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	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"
CONVIS	М	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	М	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	Ο	value list = "1,2,3,4,5,6,7,8,9,10,11,12,13"

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

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	Ο	

acronym	usage	constraints
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	
HEIGHT	0	unit = "defined in hunits" decimal digits = "1"
VALNMR	0	

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

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:

oeronym	HCOGO	constraints
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,ccccc,c"
DATSTA	0	format = "ccyymmdd"
DATEND	0	format = "ccyymmdd"

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

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	М	value list = "1,2,3,4"
EXPSOU	С	value list = "1,2,3"
VALSOU	С	
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	М	min = "1"
DATSTA	0	format = "ccyymmdd"
DATEND	0	format = "ccyymmdd"
PERSTA	0	format = "ccyymmdd"
PEREND	0	format = "ccyymmdd"
SORDAT	С	format = "ccyymmdd"
SORIND	С	format = "cc,cc,ccccc,c"
PICREP	0	

acronym	usage	constraints
TXTDSC	0	
NTXTDS	0	

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

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	0	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,cccc,c"
STATUS	0	value list = "2,4,5"

Feature	Mooring/Warping facility		
Acronym:	MORFAC	Code:	84
Type:	G		
Primitive:	P,L,A		

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	M	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	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	
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:	A		

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
Type:	G		
Primitive:	L		

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

Definition: A navigation line is a straight line extending towards an area of navigational interest and generally

generated by two navigational aids or one navigational aid and a bearing. (Service Hydrographique et

Océanographique de la Marine, France)

Attribute Bindings:

acronym	usage	constraints
CATNAV	С	value list = "1,2,3"
ORIENT	М	unit = "deg" decimal digits = "2"
OBJNAM	0	
NOBJNM	0	
INFORM	0	
NINFOM	0	
SCAMIN	М	min = "1"
PICREP	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:	P		

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

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

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,cccc,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"

acronvm	usage	constraints

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

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

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

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,cccc,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		

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,ccccc,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
Type:	G		
Primitive:	L		

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

Definition: A construction to dam oil flow on water.

Attribute Bindings:

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

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

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	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	
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	0	unit = "m" decimal digits = "2"
CATTEV	0	value list = "4,5,6"
STATUS	0	

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

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:

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

Feature	Pipeline area		
Acronym:	PIPARE	Code:	92
Type:	G		
Primitive:	Α		

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	M	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	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	Pipeline, submarine/on land		
Acronym:	PIPSOL	Code:	94
Type:	G		
Primitive:	P,L		

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

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

(IHO Dictionary, S-32, 5th Edition, 3857). A submarine or land pipeline is a pipeline lying on or buried under

the seabed or the land.

Attribute Bindings:

acronym	usage	constraints
CATPIP	0	value list = "2,3,4,6"
PRODCT	0	value list = "1,2,3,4,5,6,7,8,14,15,17,21,22"
STATUS	С	value list = "18"
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	Pontoon		
Acronym:	PONTON	Code:	95
Type:	G		
Primitive:	A		

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:	Α		

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	M	min = "1"
NTXTDS	0	

Feature	Pylon/bridge support		
Acronym:	PYLONS	Code:	98
Type:	G		
Primitive:	P,A		

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	M	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	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	
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
Type:	M		
Primitive:	A		

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 = "1,2,3,4,5,6,7,8,9,10,11,12,13,14"
SORDAT	С	format = "ccyymmdd"
SORIND	С	format = "cc,cc,cccc,c"

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

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
Type:	G		
Primitive:	P		

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

Feature	Radar transponder beacon		
Acronym:	RTPBCN	Code:	103
Type:	G		
Primitive:	Р		

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,cccc,c"
NTXTDS	0	

acronym usage constraints

STATUS O value list = "5"

Feature	Railway		
Acronym:	RAILWY	Code:	106
Type:	G		
Primitive:	L		

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	М	min = "1"
PICREP	0	
TXTDSC	0	
SORDAT	С	format = "ccyymmdd"
SORIND	С	format = "cc,cc,ccccc,c"
NTXTDS	0	

Feature	Recommended track				
Acronym:	RECTRC	Code:	109		
Type:	G				
Primitive:	L				

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

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

Attribute Bindings:

acronym	usage	constraints
CATTRK	М	value list = "1,2"
ORIENT	М	unit = "deg" decimal digits = "2"
DRVAL1	0	unit = "m" decimal digits = "2"
DRVAL2	0	unit = "m" decimal digits = "2"
TRAFIC	М	value list = "1,2,3,4"
OBJNAM	0	
NOBJNM	0	
INFORM	0	
NINFOM	0	
SCAMIN	М	min = "1"
PICREP	0	
TXTDSC	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	Recommended traffic lane part		
Acronym:	RCTLPT	Code:	110
Type:	G		
Primitive:	P,A		

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	0	
NINFOM	0	
DATSTA	0	format = "ccyymmdd"
DATEND	0	format = "ccyymmdd"
PERSTA	0	format = "ccyymmdd"
PEREND	0	format = "ccyymmdd"
TXTDSC	0	
NTXTDS	0	
PICREP	0	
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		

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	0	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		

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	М	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		

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		

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	М	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	M	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		

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,cccc,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
Type:	G		
Primitive:	P,L,A		

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,cccc,c"
TXTDSC	0	
NTXTDS	0	
PICREP	0	

Feature	Sea area/named water area		
Acronym:	SEAARE	Code:	119
Type:	G		
Primitive:	P,A		

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		

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	M	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		

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	M	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	Ο	format = "ccyymmdd"
DATEND	0	format = "ccyymmdd"
SORDAT	С	format = "ccyymmdd"
SORIND	С	format = "cc,cc,cccc,c"
NTXTDS	Ο	
HORACC	Ο	unit = "m" decimal digits = "2"
VERACC	0	unit = "m" decimal digits = "2"
CATTEV	0	value list = "4,5,6"

Feature	Silo/tank		
Acronym:	SILTNK	Code:	125
Type:	G		
Primitive:	P,A		

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	М	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
Type:	G		
Primitive:	L		

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		

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		

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

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

Attribute Bindings:

acronym	usage	constraints
CATSCF	M	value list = "1-33"
CONDTN	0	value list = "1,2,3,5"
OBJNAM	0	
NOBJNM	Ο	
INFORM	0	
NINFOM	0	
SCAMIN	M	min = "1"
PICREP	0	
TXTDSC	0	
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	Sounding		
Acronym:	SOUNDG	Code:	129
Type:	G		
Primitive:	P		

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,ccccc,c"
OBJNAM	0	
NOBJNM	0	
INFORM	0	
NINFOM	0	
TXTDSC	0	
NTXTDS	0	
PICREP	0	
TECSOU	0	value list = "1,2,3,4,5,6,7,8,9,10,11,12,13,14"
SOUACC	0	unit = "m" decimal digits = "2"

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

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	М	value list = "1,2,8,10,11"
SURATH	M	
SUREND	М	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
Type:	G		
Primitive:	P,A		

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	М	value list = "1,2,3"
CURVEL	0	unit = "knot (kt)" decimal digits = "1"
ORIENT	0	unit = "deg" decimal digits = "2"
SCAMIN	М	min = "1"
SORDAT	С	format = "ccyymmdd"
SORIND	С	format = "cc,cc,cccc,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
Type:	G		
Primitive:	L,A		

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		

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,cccc,c"
NTXTDS	0	
STATUS	0	value list = "5"

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

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		

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
Type:	G		
Primitive:	A		

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:	A		

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	М	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
Type:	G		
Primitive:	L,A		

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:

acr	ronym	usage	constraints	
BU	JRDEP	0	unit = "m" decimal digits = "1"	
HC	ORCLR	С	unit = "m" decimal digits = "2"	
VE	RCLR	С	unit = "m" decimal digits = "2"	
CC	NDTN	0	value list = "1,2,3,5"	
OB	BJNAM	0		
NC	DBJNM	0		
INF	FORM	0		
NIN	NFOM	0		
SC	CAMIN	М	min = "1"	
PIC	CREP	0		
TX	TDSC	0		
PE	REND	0		
SO	RDAT	С	format = "ccyymmdd"	
SO	RIND	С	format = "cc,cc,ccccc,c"	
vcr	rlev	0		
vcr	rval	0	unit = "m" decimal digits = "2"	
NT	XTDS	0		
unl	locd	0		
HC	DRACC	0	unit = "m" decimal digits = "2"	

acronvm	usage	constraints

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

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

Feature	Two-way route part		
Acronym:	TWRTPT	Code:	152
Type:	G		
Primitive:	A		

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	M	unit = "deg" decimal digits = "2"
TRAFIC	M	value list = "1,2,3,4"
OBJNAM	Ο	
NOBJNM	Ο	
INFORM	0	
NINFOM	0	
SCAMIN	М	min = "1"
PICREP	0	
TXTDSC	Ο	
DATSTA	0	format = "ccyymmdd"
DATEND	Ο	format = "ccyymmdd"
SORDAT	С	format = "ccyymmdd"
SORIND	С	format = "cc,cc,ccccc,c"
NTXTDS	0	
STATUS	0	

Feature	Underwater/awash rock		
Acronym:	UWTROC	Code:	153
Type:	G		
Primitive:	P,A		

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	М	value list = "1,2,3,4,5"
NATSUR	0	value list = "5,9,11,14,18"
QUASOU	0	value list = "1,2,8,10,11"
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,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:	A		

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,cccc,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		

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

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

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	M	min = "1"
SORDAT	С	format = "ccyymmdd"
SORIND	С	format = "cc,cc,cccc,c"

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

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,ccccc,c"
TXTDSC	0	
NTXTDS	0	
PICREP	0	

Feature	Wreck		
Acronym:	WRECKS	Code:	159
Type:	G		
Primitive:	P,A		

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	M	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 = "1,2,3,4,5,6,7,8,9,10,11,12,13,14"
STATUS	0	value list = "12,16,17,18"
OBJNAM	0	
NOBJNM	0	
INFORM	0	
NINFOM	0	
SCAMIN	М	min = "1"
PICREP	0	
TXTDSC	0	
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		

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	

Feature	Anchorage area		
Acronym:	achare	Code:	17001
Type:	G		
Primitive:	P,A		

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	

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

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

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

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

Edition)

Attribute Bindings:

acronym	usage	constraints
BCNSHP	М	value list = "1,5"
catlam	М	value list = "1-27"
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"
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	М	min = "1"
PICREP	0	
TXTDSC	0	
DATSTA	0	format = "ccyymmdd"
DATEND	0	format = "ccyymmdd"
PERSTA	0	format = "ccyymmdd"
PEREND	Ο	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
Type:	G	
Primitive:	P,L,A	

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"
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	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	

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

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

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
Type:	G		
Primitive:	P,A		

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"
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	
catvol	С	value list = "1,2"
catfrq	С	value list = "1,2"

acronym	usage	constraints
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		

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	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"
CONRAD	0	value list = "3"
marsys	С	value list = "1,2,9,10,11,12,13,14,15"
OBJNAM	С	
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,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		

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,ccccc,c"

acronym	usage	constraints
NTXTDS	0	
vcrlev	0	
vcrval	0	unit = "m" decimal digits = "2"
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
Type:	G	
Primitive:	P,A	

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

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

Attribute Bindings:

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

Feature	Communication area	
Acronym:	comare	Code: 1705
Type:	G	
Primitive:	A	

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

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

Attribute Bindings:

acronym	usage	constraints
catcom	0	value list = "1,2,3,4,5,6,7,8,9"
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	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	Ο	

Feature	Conveyor	
Acronym:	convyr	Code: 17034
Type:	G	
Primitive:	L,A	

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 = "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	Ο	value list = "4,5,6"

Feature	Crane		
Acronym:	cranes	Code:	17030
Type:	G		
Primitive:	P,A		

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,cccc,c"
NTXTDS	0	
vcrlev	0	
vcrval	0	unit = "m" decimal digits = "2"
unlocd	С	
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	Current, non-gravitational		
Acronym:	curent	Code: 17019	
Type:	G		
Primitive:	P,A		

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

Definition: Currents (non-gravitational) include either singly or in combination: ocean currents (wind and/or density

driven), inter-oceanic equalising currents, currents of navigable rivers, river outflow effects offshore and

other non-tidal flows.

Attribute Bindings:

acronym	usage	constraints
curvhw	С	unit = "km/h" decimal digits = "1"
curvlw	С	unit = "km/h" decimal digits = "1"
curvmw	С	unit = "km/h" decimal digits = "1"
curvow	С	unit = "km/h" decimal digits = "1"
dirimp	С	value list = "1,2,3,4"
hignam	С	
lownam	С	
meanam	С	
othnam	С	
ORIENT	С	unit = "deg" decimal digits = "2"
OBJNAM	0	
NOBJNM	0	
INFORM	0	
NINFOM	0	
SCAMIN	М	min = "1"
PICREP	0	
TXTDSC	0	
DATSTA	0	format = "ccyymmdd"

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

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

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	М	value list = "1,2,3,4,5,6,7,8,9,10,11,12,13"
COLPAT	С	value list = "1,2,3,4,5,6"
DATSTA	0	format = "ccyymmdd"
DATEND	0	format = "ccyymmdd"
PERSTA	0	format = "ccyymmdd"
PEREND	0	format = "ccyymmdd"
TOPSHP	М	value list = "1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33"
ORIENT	С	unit = "deg" decimal digits = "2"
dirimp	С	value list = "1,2,3,4"
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	
SORDAT	С	format = "ccyymmdd"
SORIND	С	format = "cc,cc,cccc,c"
NTXTDS	0	
STATUS	0	value list = "5"

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

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

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

Attribute Bindings:

acronym	usage	constraints
DRVAL1	М	unit = "m" decimal digits = "2"
DRVAL2	М	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	М	value list = "1,2,3,4,5,6"
wtwdis	М	decimal digits = "3"
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	Distance mark	
Acronym:	dismar	Code: 17004
Type:	G	
Primitive:	Р	

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	M	value list = "1,2,3,4"
hunits	M	value list = "1,2,3,4,5,6"
unlocd	С	
wtwdis	M	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"
SORDAT	С	format = "ccyymmdd"
SORIND	С	format = "cc,cc,ccccc,c"
NTXTDS	0	
STATUS	0	

Feature	Exceptional navigation structure		
Acronym:	excnst	Code:	17070
Type:	G		
Primitive:	P,A		

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

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

Attribute Bindings:

acronym	usage	constraints
catexs	M	value list = "1,2,3,4,5"
DRVAL1	M	unit = "m" decimal digits = "2"
unlocd	С	
verdat	С	value list = "12,23,24,30,31,32,33,34,35,36,37,38,39,40,41,42,43,45"
hunits	M	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	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"
NTXTDS	0	
sdrlev	0	

acronym	usage	constraints
sdrval	0	unit = "m" decimal digits = "2"
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
Type:	G	
Primitive:	L	

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	М	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,cccc,c"
unlocd	С	

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

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	0	unit = "m" decimal digits = "2"
horclw	0	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	M	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 = "5"

Feature	Gate		
Acronym:	gatcon	Code:	17031
Type:	G		
Primitive:	L,A		

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"
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		

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,ccccc,c"
NTXTDS	0	
STATUS	0	value list = "5"

Feature	Harbour basin		
Acronym:	hrbbsn	Code:	17056
Type:	G		
Primitive:	A		

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	Ο	unit = "m" decimal digits = "2"
HORWID	Ο	unit = "m" decimal digits = "2"
unlocd	С	
CONDTN	0	value list = "1,2,3,5"
OBJNAM	0	
NOBJNM	0	
INFORM	0	
NINFOM	Ο	
SCAMIN	M	min = "1"
PICREP	Ο	
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	Harbour facility	
Acronym:	hrbfac	Code: 17015
Type:	G	
Primitive:	P,A	

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

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

Attribute Bindings:

acronym	usage	constraints
cathaf	M	value list = "4,6,9,12,13,16,17"
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	
STATUS	0	value list = "5"

Feature	Hulk		
Acronym:	hulkes	Code:	17020
Type:	G		
Primitive:	Α		

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	1,2,0,1,0,0
		value liet - "4 0 0 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,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"

acronym usage constraints

STATUS O value list = "5"

Feature	Lock basin		
Acronym:	lokbsn	Code:	17016
Type:	G		
Primitive:	A		

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

Definition: A lock basin is a wet dock in a waterway, permitting a ship to pass from one level to another. (adapted from

IHO Dictionary, S-32, 5th Edition, 2881)

Attribute Bindings:

acronym	usage	constraints
horcll	М	unit = "m" decimal digits = "2"
horclw	М	unit = "m" decimal digits = "2"
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"

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"

Feature	Lock basin part		
Acronym:	Ikbspt	Code:	17058
Type:	G		
Primitive:	A		

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

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

gates.

Attribute Bindings:

acronym	usage	constraints
horcll	M	unit = "m" decimal digits = "2"
horclw	M	unit = "m" decimal digits = "2"
HORLEN	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	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"

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"

Feature	Maximum permitted ship dimensions		
Acronym:	lg_sdm	Code: 18001	
Type:	G		
Primitive:	A		

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,cccc,c"
lg_pbr	0	

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

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		

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 = "1,2,9,10,11,12,13,14,15"
SORDAT	С	format = "ccyymmdd"
SORIND	С	format = "cc,cc,ccccc,c"
ORIENT	С	unit = "deg" decimal digits = "2"

Feature	Notice mark		
Acronym:	notmrk	Code:	17050
Type:	G		
Primitive:	P		

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

Definition: A signboard used to indicate prohibitions, regulations, restrictions, recommendations and general

information which apply to a waterway or a section of a waterway

Attribute Bindings:

acronym	usage	constraints
addmrk	0	value list = "1,2,3,4,5"
catnmk	M	value list = "1 - 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	Ο	unit = "m" decimal digits = "1"
disbk2	0	unit = "m" decimal digits = "1"
fnctnm	M	value list = "1,2,3,4,5"
marsys	0	value list = "1,2,9,10,11,12,13,14,15"
ORIENT	С	unit = "deg" decimal digits = "2"
STATUS	0	value list = "2,3,4,5,8,9,12,14,16,17"
bnkwtw	Ο	value list = "1,2"
CONDTN	Ο	value list = "1,2,3,5"
OBJNAM	Ο	
NOBJNM	Ο	
INFORM	Ο	
NINFOM	0	
SCAMIN	М	min = "1"
PICREP	0	

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

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

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	М	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"
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	

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

acronym usage constraints

STATUS O value list = "5"

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

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	
STATUS	0	value list = "5"

Feature	Radio calling-in point		
Acronym:	rdocal	Code:	17017
Type:	G		
Primitive:	P,L		

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	Ο	
NOBJNM	0	
unlocd	С	
INFORM	0	
NINFOM	0	
SCAMIN	M	min = "1"
PICREP	Ο	
TXTDSC	С	
DATSTA	0	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"

acronvm	usage	constraints
acioniviii	usauc	COHSHAIIIS

NTXTDS O

STATUS O value list = "5"

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

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,cccc,c"
NTXTDS	0	
STATUS	0	value list = "5"

Feature	Restricted area		
Acronym:	resare	Code:	17005
Type:	G		
Primitive:	A		

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 = "1,4,5,9,12,19,22,23,25,26,33"
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:	Р	

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"
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	
Type:	G		
Primitive:	L,A		

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,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"

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

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,ccccc,c"
NTXTDS	0	
STATUS	0	value list = "5"

Feature	Signal station, warning		
Acronym:	sistaw	Code:	17008
Type:	G		
Primitive:	P		

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

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

Edition, 4742)

Attribute Bindings:

acronym	usage	constraints
catsiw	M	value list = "15,16,18"
CONDTN	0	value list = "1,2,3,5"
OBJNAM	0	
NOBJNM	0	
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,cccc,c"
NTXTDS	0	
STATUS	0	value list = "5"

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

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

Definition: An area of uniform sounding datum.

Attribute Bindings:

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

Feature	Terminal		
Acronym:	termnl	Code:	17064
Type:	G		
Primitive:	P,A		

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,cccc,c"
NTXTDS	0	
STATUS	0	value list = "5"

Feature	Time Schedule - in general			
Acronym:	tisdge	Code:	17068	
Type:	0			
Primitive:	N			

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	

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,cccc,c"
NTXTDS	0	
STATUS	0	value list = "5"

Feature	Underwater rock / awash rock			
Acronym:	uwtroc	Code:	17033	
Type:	G			
Primitive:	P,A			

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	М	unit = "m" decimal digits = "2"
watlev	М	value list = "1,2,3,4,8,9"
NATSUR	0	value list = "5,9,11,14,18"
QUASOU	0	value list = "1,2,8,10,11"
OBJNAM	0	
NOBJNM	0	
INFORM	0	
NINFOM	0	
SCAMIN	М	min = "1"
PICREP	0	
TXTDSC	0	
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 = "1"
VERACC	0	unit = "m" decimal digits = "1"
CATTEV	0	value list = "4,5,6"

Feature	Vehicle transfer	
Acronym:	vehtrf	Code: 17069
Type:	G	
Primitive:	P,A	

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 = "12,23,24,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,45"
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	Ο	value list = "5"

Feature	Vertical datum			
Acronym:	m_vdat	Code:	17023	

Type: Μ

Primitive: Α

Data Dictionary (DD) Reference:

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

Definition: An area of uniform vertical datum.

Attribute Bindings:

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

Feature	Waterway area		
Acronym:	wtware	Code:	17066
Type:	G		
Primitive:	A		

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

Feature	Waterway axis		
Acronym:	wtwaxs	Code:	17051
Type:	G		
Primitive:	L		

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,cccc,c"
STATUS	0	value list = "5"
NTXTDS	0	

Feature	Waterway gauge	
Acronym:	wtwgag	Code: 17067
Type:	G	
Primitive:	P,A	

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 = "12,31,32,33,34,35,36,37,38,39,40,41,42,43,45"
hunits	0	value list = "1,2,3,4,5,6"
wtwdis	0	decimal digits = "3"
CONDTN	0	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,ccccc,c"
STATUS	0	value list = "5"
sdrval	0	unit = "m" decimal digits = "2"
vcrval	0	unit = "m" decimal digits = "2"
NTXTDS	Ο	

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

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 = "12,23,30,31,32,33,34,35,36,37,38,39,40,41,42,43,45"
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		
Acronym:	BCNSHP	Code:	2

Use Type:

Acronym:

Value Type: Ε

Data Dictionary (DD) Reference:

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

Definition:

5

DD Name: HYDRO

pile beacon

Name:

Enumerations:

Value	Data Diction	onary (DD) Reference							
1	DD Name:	HYDRO	Code:	BCNSHP_1	Date accepted:	2000-11-01			
	Name:	stake, pole, perch, post							
	Definition: support for	_		or metal pole, embeddo lapted from IHO Dictio		o serve as a navigational aid or a lition, 4960)			
2	DD Name:	HYDRO	Code:	BCNSHP_2	Date accepted:	2000-11-01			
	Name:	withy	withy						
	Definition:	a tree withou	ıt roots s	stuck or spoiled into the	e bottom of the se	ea 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.								

1969)

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,

Code: BCNSHP_5

Date accepted:

2000-11-01

Value Data Dictionary (DD) Reference

6 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)

Attribute Buoy shape **BOYSHP** Code: 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: 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.

5 DD Name: HYDRO 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: 7

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 2000-11-01 Code: CATAIR_1 Date accepted:

> 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 4 Code: CATAIR 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:

Data Dictionary (DD) Reference:

L

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 Encylopaedia of

Science and Technologu, 7th Edition, 1992)

13 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 Dictio	nary (DD) Ref	ference			
1	DD Name:	HYDRO	Code:	CATBUA_1	Date accepted:	2000-11-01
	Name:	urban area				
	Definition: industrial p	-		tly occupied by man-n art Manual, US Depar		ed for residential, commercial, and ce, 1992)
2	DD Name:	HYDRO	Code:	CATBUA_2	Date accepted:	2000-11-01
	Name:	settlement				
	Definition:	a small colle	ection of	dwellings in a remote	area.	
3	DD Name:	HYDRO	Code:	CATBUA_3	Date accepted:	2000-11-01
	Name:	village				
	Definition:	a collection	of house	es in a rural district, us	ually smaller than	a town.
4	DD Name:	HYDRO	Code:	CATBUA_4	Date accepted:	2000-11-01
	Name:	town				
	Definition: incorporate	any conside ed as a city.	rable co	llection of dwellings ar	nd other buildings	larger than a village, but not
5	DD Name:	HYDRO	Code:	CATBUA_5	Date accepted:	2000-11-01

IENC_FC_2.5.DOCX 222

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

Attribute Category of cable	Attribute
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Acronym: CATCBL Code: 11

Use Type: F
Value Type: E

Data Dictionary (DD) Reference:

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

Definition:

Enumerations:

Value Data Dictionary (DD) Reference

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

Name: power line

Definition: a cable used for the supply of electricity.

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

Name: transmission line

Definition: multiple un-insulated cables usually supported by steel lattice towers. Such features are

generally more prominent than normal power lines.

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

Name: telephone

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

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

Name: telegraph

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

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

Name: mooring cable/chain

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

Attribute	Category of cardinal mark
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Acronym: CATCAM Code: 13

Use Type: F
Value Type: E

Data Dictionary (DD) Reference:

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

Definition:

Enumerations:

Value Data Dictionary (DD) Reference

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

Name: north cardinal mark

Definition: Quadrant bounded by the true bearing NW-NE taken from the point of interest it should be

passed to the north side of the mark.

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

Name: east cardinal mark

Definition: Quadrant bounded by the true bearing NE-SE taken from the point of interest it should be

passed to the east side of the mark.

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

Name: south cardinal mark

Definition: Quadrant bounded by the true bearing SE-SW taken from the point of interest it should be

passed to the south side of the mark.

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

Name: west cardinal mark

Definition: Quadrant bounded by the true bearing SW-NW taken from the point of interest it should be

passed to the west side of the mark.

Attribute	Category of coastline
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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)

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.

Attribute	Category of coverage
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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.

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

Name: dam

Definition: a barrier to check or confine anything in motion; particularly one constructed to hold back water

and raise its level to form a reservoir, or to prevent flooding. (IHO Dictionary, S-32, 5th Edition, 1196)

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

Name: flood barrage

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

Chart Specifications, M-4 326.7)

Attribute	Category of distance mark

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
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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:

4

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 DD Name: HYDRO 2 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

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		
Value Type:	E		

Data Dictionary (DD) Reference:

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

Definition:

Enumerations:

Value	Data Dictio	nary (DD) Ref	ference			
1	DD Name:		Code:	CATFOG_1	Date accepted:	2000-11-01
	Name:	explosive				
	Definition:	a signal prod	duced by	the firing of explosive	e charges. (Admira	alty List of Lights and Fog Signals)
2	DD Name:	HYDRO	Code:	CATFOG_2	Date accepted:	2000-11-01
	Name:	diaphone				
	Definition: concludes Signals)	•			•	erful low-pitched sound, which often d'. (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 havin	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: Fog Signal		compres	ssed air and emits a w	reak, high pitched	sound. (Admiralty List of Lights and

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		
Value Type:	L		

Data Dictionary (DD) Reference:

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

Definition: Category of fortified structure

Enumerations:

Value	Data Dictio	nary (DD) Ref	ference			
1	DD Name:	HYDRO	Code:	CATFOR_1	Date accepted:	2000-11-01
	Name:	castle				
	Definition:	a large fortif	ied build	ing or structure		
2	DD Name:	HYDRO	Code:	CATFOR_2	Date accepted:	2000-11-01
	Name:	fort				
	Definition:	a fortified er	closure,	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 str	ructure c	on which artillery is mo	unted	
4	DD Name:	HYDRO	Code:	CATFOR_4	Date accepted:	2000-11-01
	Name:	blockhouse				
	Definition: defensive o		tructure	strengthened to give p	protection against	enemy fire, with apertures to allow
5	DD Name:	HYDRO	Code:	CATFOR_5	Date accepted:	2000-11-01
	Name:	martello tow	er			
	Definition:	a round fort	for coas	tal 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
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Acronym: CATHAF Code: 30

Use Type: F
Value Type: L

Data Dictionary (DD) Reference:

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

Definition:

Enumerations:

Value Data Dictionary (DD) Reference

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

Name: yacht harbour/marina

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

31

Attribute	Category of hulk
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Acronym: CATHLK Code:

Use Type: F Value Type: L

Data Dictionary (DD) Reference:

breakwater.

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

Definition:

Enumerations:

Value	Data Dictio	nary (DD) Ref	erence			
1	DD Name:	HYDRO	Code:	CATHLK_1	Date accepted:	2000-11-01
	Name:	floating resta	urant			
	Definition:	a permanent	tly moore	ed floating structure, s	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 hist	torical in	terest permanently mo	oored as a tourist a	attraction.
3	DD Name:	HYDRO	Code:	CATHLK_3	Date accepted:	2000-11-01
	Name:	museum				
	Definition:	a permanent	tly moore	ed floating structure, s	such as an old ship	, used as a museum.
4	DD Name:	HYDRO	Code:	CATHLK_4	Date accepted:	2000-11-01
	Name:	accommodat	tion			
	Definition:	a permanent	tly moore	ed floating structure, s	such as an old ship	, used for accommodation.
5	DD Name:	HYDRO	Code:	CATHLK_5	Date accepted:	2000-11-01
	Name:	floating breal	kwater			
	Definition:	a permanent	ly moore	ed floating structure, o	often constructed fi	om old ships, used as a

Attribute	Category of land region		
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

Code: CATLND_2 2 DD Name: HYDRO 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

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

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 Dictio	nary (DD) Ref	erence			
1	DD Name:	HYDRO	Code:	CATLMK_1	Date accepted:	2000-11-01
	Name:	cairn				
	Definition: importance		-	usually conical or pyra ctionary, S-32, 5th Edi	•	landmark or to designate a point of
2	DD Name:	HYDRO	Code:	CATLMK_2	Date accepted:	2000-11-01
	Name:	cemetery				
	Definition:	an area of la	ınd for b	urying the dead.		
3	DD Name:	HYDRO	Code:	CATLMK_3	Date accepted:	2000-11-01
	Name:	chimney				
	Definition: Geographic	a vertical str c Information \$		• •	r flue for dischargi	ing smoke and gases. (Digital
4	DD Name:	HYDRO	Code:	CATLMK_4	Date accepted:	2000-11-01
	Name:	dish aerial				
	Definition: Dictionary,	a parabolic a S-32, 5th Edit		•	mission of high fre	quency radio signals. (IHO
5	DD Name:	HYDRO	Code:	CATLMK_5	Date accepted:	2000-11-01
	Name:	flagstaff (flag	jpole)			
	Definition: 1.28)	a staff or po	e on wh	ich flags are raised. (E	Digital Geographic	Information Standard - DIGEST

Value	Data Dictio	nary (DD) Ref	erence			
6	DD Name:	HYDRO	Code:	CATLMK_6	Date accepted:	2000-11-01
	Name:	flare stack				
	Definition: Normally st			for burning-off waste c cated at refineries (IHC	• '	ctionary, S-32, 5th Edition, 1836). ons, 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 neric Administration - NOAA, 1969)
9	DD Name:	HYDRO	Code:	CATLMK_9	Date accepted:	2000-11-01
	Name:	monument				
	Definition: Information	a structure e Standard - D		or maintained as a mer	morial to a person	or event. (Digital Geographic
10	DD Name:	HYDRO	Code:	CATLMK_10	Date accepted:	2000-11-01
	Name:	column (pilla	r)			
	Definition: vertically. (0	a cylindrical Oxford English	•		nsiderably greater	length than diameter erected
11	DD Name:	HYDRO	Code:	CATLMK_11	Date accepted:	2000-11-01
	Name:	memorial pla	ique			
	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)	e, 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).

16 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
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Acronym: CATLAM Code: 36

Use Type: F
Value Type: E

Data Dictionary (DD) Reference:

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

Definition:

Enumerations:

Value Data Dictionary (DD) Reference

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

Name: port-hand lateral mark

Definition: indicates the port boundary of a navigational channel or suggested route when proceeding in

the 'conventional direction of buoyage'.

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

Name: starboard-hand lateral mark

Definition: indicates the starboard boundary of a navigational channel or suggested route when

proceeding in the 'conventional direction of buoyage'.

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

Name: preferred channel to starboard lateral mark

Definition: at a point where a channel divides, when proceeding in the 'conventional direction of buoyage',

the preferred channel (or primary route) is indicated by a modified port-hand lateral mark.

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

Name: preferred channel to port lateral mark

Definition: at a point where a channel divides, when proceeding in the 'conventional direction of buoyage',

the preferred channel (or primary route) is indicated by a modified starboard-hand lateral mark.

Attribute Category of 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

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

Name: front

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

seaward.

Value	Data Diction	nary (DD) Reference							
13	DD Name:	HYDRO	Code:	CATLIT_13	Date accepted:	2000-11-01			
	Name:	rear							
	Definition: seaward.	terms used with leading lights to describe the 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 v	vith lead	ing lights to describe t	he 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: F
Value Type: E

Data Dictionary (DD) Reference:

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

Definition:

Enumerations:

Value Data Dictionary (DD) Reference

1 DD Name: HYDRO Code: CATMFA_1 Date accepted: 2010-08-12

Name: crustaceans

Definition: hard shelled animals, for example crabs or lobsters

DD Name: HYDRO Code: CATMFA_2 Date accepted: 2010-08-12

Name: oysters/mussels

Definition: edible bivalve molluscs

DD Name: HYDRO Code: CATMFA_3 Date accepted: 2010-08-12

Name: fish

Definition: vertebrate cold blooded animal with gills, living in water.

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

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				
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 Dictio	onary (DD) Reference							
2	DD Name:	HYDRO	Code:	CATMPA_2	Date accepted:	2000-11-01			
	Name:	torpedo exercise area							
	Definition:	an area within which exercises are carried out with torpedos							
3	DD Name:	HYDRO	Code:	CATMPA_3	Date accepted:	2000-11-01			
	Name:	submarine exercise area							
	Definition:	an area within which submarine exercises are carried out.							
4	DD Name:	HYDRO	Code:	CATMPA_4	Date accepted:	2000-11-01			
	Name:	firing danger area							
	Definition:	areas for bombing and missile exercises.							
5	DD Name:	HYDRO	Code:	CATMPA_5	Date accepted:	2000-11-01			
	Name:	mine-laying practice area							
	Definition:	an area within which mine laying exercises are carried out.							
6	DD Name:	HYDRO	Code:	CATMPA_6	Date accepted:	2000-11-01			
	Name:	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 Diction	nary (DD) Ref	erence			
1	DD Name:	HYDRO	Code:	CATMOR_1	Date accepted:	2000-11-01
	Name:	dolphin				
	Definition: Dictionary,	a post or gro S-32, 5th Edit		• • • •	rt a deck, used for	mooring or warping a vessel. (IHO
3	DD Name:	HYDRO	Code:	CATMOR_3	Date accepted:	2000-11-01
	Name:	bollard				
	Definition:	small shaped	d post, n	nounted on a wharf or	dolphin used to se	ecure ship=s lines.
5	DD Name:	HYDRO	Code:	CATMOR_5	Date accepted:	2000-11-01
	Name:	post or pile				
		• .		or section of steel, woo γ , S-32, 5th Edition, 38		forced into the seabed to serve as
7	DD Name:	HYDRO	Code:	CATMOR_7	Date accepted:	2000-11-01
	Name:	mooring buo	y			
	Definition: of its ancho	•		e bottom by permaner es. (IHO Dictionary, S-	_	neans for mooring a vessel by use 75)

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.

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.

41

Code:

Attribute	Category of navigation line

Acronym: CATNAV

Use Type: F
Value Type: E

Data Dictionary (DD) Reference:

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

Definition:

Enumerations:

Value Data Dictionary (DD) Reference

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

Name: clearing line

Definition: a straight line that marks the boundary between a safe and a dangerous area or that passes

clear of a navigational danger. (adapted from IHO Dictionary, S-32, 5th Edition, 826)

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

Name: transit line

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

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

Name: leading line bearing a recommended track

Definition: a line passing through one or more clearly defined objects, along the path of which a vessel can

approach safely up to a certain distance off. (Adapted from IHO Dictionary, S-32, 5th Edition, 2696)

Attribute	Category of obstruction

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)

DD Name: HYDRO 3 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.

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

> Name: fish haven

Definition: areas established by private interests, usually sport fishermen, to simulate natural reefs and

wrecks that attract fish. The reefs are constructed by dumping assorted junk in areas which may be of very small extent or may stretch a considerable distance along a depth contour. Also called fishery reefs.

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

Name: foul area

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

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

Name: foul ground

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

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

Name: ice boom

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

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

Name: ground tackle

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

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

Name: boom

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

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:

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

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)

DD Name: HYDRO 4 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

> single anchor leg mooring Name:

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
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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. DD Name: HYDRO 2 Code: CATPIL_2 Date accepted: 2000-11-01 Name: boarding by helicopter Definition: pilot boards by helicopter which comes out from the shore. DD Name: HYDRO 3 Code: CATPIL_3 Date accepted: 2000-11-01 pilot comes out from shore Name:

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.

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

Name: intake pipe

Definition: a pipe taking water from a river or other body of water, to drive a mill or supply a canal,

waterworks, etc. (IHO Dictionary, S-32, 5th Edition, 2468)

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

Name: sewer

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

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

Name: supply pipe

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

Attribute	Category of production area	
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Acronym: **CATPRA** Code: 48

Use Type: Value Type: Е

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:	CATPRA_1	Date accepted:	2000-11-01
	Name:	quarry				
	Definition:	an excavation	n in soli	d rock from which buil	ding stone, limest	one, etc. is removed.
2	DD Name:	HYDRO	Code:	CATPRA_2	Date accepted:	2000-11-01
	Name:	mine				
	Definition:	an excavation	on in the	earth for the purpose	of extracting earth	n materials.
3	DD Name:	HYDRO	Code:	CATPRA_3	Date accepted:	2000-11-01
	Name:	stockpile				
	Definition:	a reserve sto	ock of m	aterial, equipment or o	other supplies.	
4	DD Name:	HYDRO	Code:	CATPRA_4	Date accepted:	2000-11-01
	Name:	power station	n area			
	Definition: (hydraulic,	•	-	ntaining apparatus for ear, etc.) into electrica	~	ersion of some form of energy
5	DD Name:	HYDRO	Code:	CATPRA_5	Date accepted:	2000-11-01
	Name:	refinery area	l			
	Definition: petroleum-	a system of derived produ	•	units used to convert	crude petroleum ii	nto fuels, lubricants and other
6	DD Name:	HYDRO	Code:	CATPRA_6	Date accepted:	2000-11-01

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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
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Acronym: CATPYL Code: 49

Use Type: F
Value Type: E

Data Dictionary (DD) Reference:

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

Definition:

Enumerations:

Value Data Dictionary (DD) Reference

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

Name: power transmission pylon/pole

Definition: a vertical construction consisting, for example, of a steel framework or of 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

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
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Acronym: CATRTB Code: 52

Use Type: F
Value Type: E

Data Dictionary (DD) Reference:

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

Definition:

Enumerations:

Value Data Dictionary (DD) Reference

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

Name: ramark, radar beacon transmitting continuously

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

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

Name: racon, radar transponder beacon

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

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

Name: leading racon/radar transponder beacon

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

Attribute Category of recommended track

Acronym: CATTRK Code: 54

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: 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 Dictio	ictionary (DD) Reference								
4	DD Name:	HYDRO	Code:	CATREA_4	Date accepted:	2000-11-01				
	Name:	nature reserv	ve							
	Definition:	a tract of lan	ıd mana	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	ry							
	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 safe	ty zone						
	Definition:	an area arou	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 ent	ter a harbour.					
22	DD Name:	HYDRO	Code:	CATREA_22	Date accepted:	2000-11-01				
	Name:	fish sanctua	·y							

Definition: a place where fish are protected.

DD Name: HYDRO Code: CATREA_23 Date accepted: 2000-11-01

Name: ecological reserve

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

other and to their surroundings.

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

Name: swinging area

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

France).

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

Name: water skiing area

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

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

33 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.

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

Name: minor road

Definition: a secondary road for local traffic.

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

Name: track/path

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

by continual treading.

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

2 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

Attribute	Category of sea area		
Acronym:	CATSEA	Code:	59
Use Type:	F		

Data Dictionary (DD) Reference:

Ε

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

Definition:

Value Type:

Enumerations:

Value	Data Dictio	onary (DD) Reference						
13	DD Name:	HYDRO	Code:	CATSEA_13	Date accepted:	2000-11-01		
	Name:	shoal						
	Definition:	an offshore h	hazard to	o surface navigation th	nat is composed of	f unconsolidated material.		
51	DD Name:	HYDRO	Code:	CATSEA_51	Date accepted:	2000-11-01		
	Name:	canal						
	Definition:	an artificial v	vater 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 b	by land.			
12	DD Name:	HYDRO	Code:	CATSEA 12	Date accepted:	2000-11-01		
	Name:	narrows			·			
	Definition:	a navigable	narrow p	part of a bay, strait, riv	er, etc.			
54	DD Name:	HYDRO	Code:	CATSEA 54	Date accepted:	2000-11-01		
5 4			Code.	OATOLA_04	Date accepted.	2000-11-01		
			ction of	a river, specially a nav	viaable river betwe	en two bends or an arm of the		
	Name: Definition: DD Name: Name:	lake a large body HYDRO narrows a navigable HYDRO reach	of wate Code: narrow p	r entirely surrounded be CATSEA_12 part of a bay, strait, riversely CATSEA_54	Date accepted: er, etc. Date accepted:	2000-11-01		

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:

Value

Enumerations:

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

Name: breakwater

Data Dictionary (DD) Reference

Definition: a structure protecting a shore area, harbour, anchorage, or basin from waves. (IHO Dictionary,

S-32, 5th Edition, 542)

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

Name: groyne (groin)

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

and IHO Chart Specifications, M-4)

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

Name: pier (jetty)

Definition: a long, narrow structure extending into the water to afford a berthing place for vessels, to serve

as a promenade, etc. (IHO Dictionary, S-32, 5th Edition, 3833)

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

Name: promenade pier

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

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

Name: wharf (quay)

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

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

> Name: training wall

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

Specifications, M-4).

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

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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

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	
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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	onary (DD) Reference							
1	DD Name:	HYDRO	Code:	CATSCF_1	Date accepted:	2000-11-01			
	Name:	visitor's berth	า						
	Definition:	a berth set a	aside for	the use of visiting ves	sels.				
2	DD Name:	HYDRO	Code:	CATSCF_2	Date accepted:	2000-11-01			
	Name:	nautical club	1						
	Definition:	a club for ma	ariners 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 lif	ting boa	ts out of the water.					
4	DD Name:	HYDRO	Code:	CATSCF_4	Date accepted:	2000-11-01			
	Name:	sailmaker							
	Definition:	a place whe	re sails a	are made or may be ta	aken for repair.				
5	DD Name:	HYDRO	Code:	CATSCF_5	Date accepted:	2000-11-01			
	Name:	boatyard							
	Definition:	a place on s	hore wh	ere boats may be built	t, stored and repai	red.			
6	DD Name:	HYDRO	Code:	CATSCF_6	Date accepted:	2000-11-01			
	Name:	public inn							
	Definition:	a public hou	se provi	ding food, drink and a	ccommodation. (T	he Collins Reference English			

Value	Data Dictio	nary (DD) Re	ference			
7	DD Name: Name: Definition:	HYDRO restaurant		CATSCF_7	Date accepted: (The Collins Reference)	2000-11-01 rence Dictionary, 1992)
8	DD Name: Name: Definition:	HYDRO chandler	Code:	CATSCF_8 oplies. (The Collins Re	Date accepted:	2000-11-01
9	DD Name: Name: Definition:	HYDRO provisions	Code:	CATSCF_9 and other such supplie	Date accepted:	2000-11-01
10	DD Name: Name: Definition:	doctor		CATSCF_10 tor is available to prov	Date accepted:	2000-11-01
11	DD Name: Name: Definition:	HYDRO pharmacy	Code:	CATSCF_11 cal drugs are dispense	Date accepted:	
12	DD Name: Name: Definition:	HYDRO water tap	Code:	CATSCF_12 water is available.	Date accepted:	2000-11-01
13	DD Name: Name: Definition:	·	Code:	CATSCF_13	Date accepted:	2000-11-01
14	DD Name: Name: Definition:	HYDRO electricity	Code:	CATSCF_14 nection to an electrica	Date accepted:	2000-11-01
15	DD Name: Name: Definition:	HYDRO bottle gas	Code:	CATSCF_15 d gas is available.	Date accepted:	2000-11-01

Value	Data Dictio	ata Dictionary (DD) Reference							
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	commodation is provided.			
25	DD Name:	HYDRO	Code:	CATSCF_25	Date accepted:	2000-11-01			

Name: camping site

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

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

Name: sewerage pump-out station

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

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

Name: emergency telephone

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

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

Name: landing/launching place for boats

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

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

Name: visitors mooring

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

30 DD Name: HYDRO Code: CATSCF 30 Date accepted: 2000-11-01

Name: scrubbing berth

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

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

Name: picnic area

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

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
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Acronym: CATSPM Code: 66

Use Type: F

Value Type: L

Data Dictionary (DD) Reference:

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

Definition:

Enumerations:

2

DD Name: HYDRO

Value	Data Dictio	ionary (DD) Reference						
9	DD Name:	HYDRO	Code:	CATSPM_9	Date accepted:	2000-11-01		
	Name:	ODAS (Ocean-Data-Acqusition-System)						
	Definition: Ocean Data Acqusition System (IHO Dictionary, S-32, 5th Edition, 5953							
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 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: (adapted fr	a mark indicating a borehole that produces or is capable of producing oil or natural gas. om IHO Dictionary, S-32, 5th Edition, 5971)						
56	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.							

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Date accepted:

2000-11-01

Code: CATSPM_2

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.

3 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 Dictionary (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 tify 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:	ion: a mark indicating that overtaking is prohibited.							

Value	Data Diction	ictionary (DD) Reference							
23	DD Name:	HYDRO	Code:	CATSPM_23	Date accepted:	2000-11-01			
	Name:	two-way traffic prohibited mark							
	Definition:	a mark indicating a one-way route.							
24	DD Name:	HYDRO	Code:	CATSPM_24	Date accepted:	2000-11-01			
	Name:	'reduced wake' mark							
	Definition:	a mark indicating that vessels must not generate excessive wake.							
25	DD Name:	HYDRO	Code:	CATSPM_25	Date accepted:	2000-11-01			
	Name:	speed limit mark							
	Definition:	a mark indicating that a speed limit applies.							
26	DD Name:	HYDRO	Code:	CATSPM_26	Date accepted:	2000-11-01			
	Name:	stop mark							
	Definition:	: a mark indicating the place where the bow of a ship must stop when traffic lights show							
27	DD Name:	HYDRO	Code:	CATSPM_27	Date accepted:	2000-11-01			
	Name:	general warning mark							
	Definition:	a mark indica	a mark indicating that special caution must be exercised in the vicinity of the mark.						
28	DD Name:	HYDRO	Code:	CATSPM_28	Date accepted:	2000-11-01			
	Name:	'sound ship's siren' mark							
	Definition:	a mark indicating that a ship should sound its siren or horn.							
29	DD Name:	HYDRO	Code:	CATSPM_29	Date accepted:	2000-11-01			
	Name:	restricted vertical clearance mark							
	Definition:	on: a mark indicating the minimum vertical space available for passage.							
30	DD Name:	HYDRO	Code:	CATSPM_30	Date accepted:	2000-11-01			
	Name:	maximum ve	ssel's dr	aught mark					
	Definition:	a mark indicating the maximum draught of vessel permitted.							
31	DD Name:	HYDRO	Code:	CATSPM_31	Date accepted:	2000-11-01			
	Name:	restricted horizontal clearance mark							
	Definition:	n: a mark indicating the minimum horizontal space available for passage.							
32	DD Name:	HYDRO	Code:	CATSPM_32	Date accepted:	2000-11-01			

Value	Data Dictionary (DD) Reference									
	Name:	strong currer	nt warnir	ng mark						
	Definition:	a mark warn	ing of st	rong currents.						
33	DD Name:	HYDRO	Code:	CATSPM_33	Date accepted:	2000-11-01				
	Name:	berthing perr	berthing permitted mark							
	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	overhead power cable mark							
	Definition:	a mark indic	ating an	overhead power cable	9.					
35	DD Name:	HYDRO	Code:	CATSPM_35	Date accepted:	2000-11-01				
	Name:	'channel edg	e gradie	nt' mark						
	Definition:	a mark indic	ating the	gradient of the slope	of a dredge chanr	nel edge.				
36	DD Name:	HYDRO	Code:	CATSPM_36	Date accepted:	2000-11-01				
	Name:	telephone mark								
	Definition:	a mark indicating the presence of a telephone.								
37	DD Name:	HYDRO	Code:	CATSPM_37	Date accepted:	2000-11-01				
	Name:	ferry crossing mark								
	Definition: mark.	a mark indic	ating tha	at a ferry route crosses	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	pipeline mark							
	Definition: the land.	a mark used	to indic	ate the position of sub	marine pipelines c	or the point at which they run on to				
40	DD Name:	HYDRO	Code:	CATSPM_40	Date accepted:	2000-11-01				
	Name:	anchorage m	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	to indic	ate a clearing line.						
42	DD Name:	HYDRO	Code:	CATSPM_42	Date accepted:	2000-11-01				

Value	Data Dictionary (DD) Reference								
	Name:	control mark							
	Definition:	a mark indica	ating the	location at which a re	striction or require	ement exists.			
43	DD Name:	HYDRO	Code:	CATSPM_43	Date accepted:	2000-11-01			
	Name:	diving mark							
	Definition:	a mark indica	ating tha	t diving may take plac	e in the vicinity.				
44	DD Name:	HYDRO	Code:	CATSPM_44	Date accepted:	2000-11-01			
	Name:	refuge beacon							
	Definition:	a mark provid	ding or i	ndicating a place of sa	afety.				
45	DD Name:	HYDRO	Code:	CATSPM_45	Date accepted:	2000-11-01			
	Name:	foul ground m	nark						
	Definition:	a mark indica	ating a fo	oul ground.					
46	DD Name:	HYDRO	Code:	CATSPM_46	Date accepted:	2000-11-01			
	Name:	yachting mark							
	Definition:	a mark instal	a mark installed for use by yachtsmen.						
47	DD Name:	HYDRO	Code:	CATSPM_47	Date accepted:	2000-11-01			
	Name:	heliport mark							
	Definition:	a mark indica	ating an	area where helicopter	s may land.				
48	DD Name:	HYDRO	Code:	CATSPM_48	Date accepted:	2000-11-01			
	Name:	GPS mark							
	Definition:	a mark indica	ating a lo	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 land	ding ma	rk					
	Definition:	a mark indica	ating an	area where sea-plane	s land.				
50	DD Name:	HYDRO	Code:	CATSPM_50	Date accepted:	2000-11-01			
	Name:	entry prohibit	ed mark	(
	Definition:	a mark indica	ating tha	t entry is prohibited.					
51	DD Name:	HYDRO	Code:	CATSPM_51	Date accepted:	2000-11-01			
	Name:	work in progr	ess mai	·k					
	Definition:	a mark indica	ating tha	t work (generally cons	truction) is in prog	ress.			

Value Data Dictionary (DD) Reference

52 DD Name: HYDRO Code: CATSPM_52 Date accepted: 2000-11-01

Name: mark with unknown purpose

Definition: a mark whose detailed characteristics are unknown.

DD Name: HYDRO Code: CATSPM_54 Date accepted: 2000-11-01

Name: channel separation mark

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

DD Name: HYDRO Code: CATSPM_55 Date accepted: 2000-11-01

Name: marine farm mark

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

Attribute	Category of temporal variation	
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Acronym: CATTEV Code: 19000

Use Type: F Value Type: L

Data Dictionary (DD) Reference:

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

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 DD Name: HYDRO Code: CATTEV_5 Date accepted: 2019-05-13

Name: unlikely to change

Definition:

6 DD Name: HYDRO Code: CATTEV_6 Date accepted: 2019-05-13

Name: unassessed

Definition:

Attribute	Category of Tidal stream
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CAT_TS Code: 188 Acronym:

Use Type:

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)

2000-11-01 2 DD Name: HYDRO Code: CAT_TS_2 Date accepted:

> 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)

DD Name: HYDRO 3 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

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

Name: wood in general (inc mixed wood)

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

DD Name: HYDRO Code: CATVEG_13 Date accepted: 2000-11-01

Name: tree in general

Data Dictionary (DD) Reference

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

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
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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
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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)

2 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
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Acronym: CATZOC Code: 72

Use Type: F
Value Type: E

Data Dictionary (DD) Reference:

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

Definition:

Enumerations:

Value	Data Dictio	nary (DD) Ref	erence			
1	DD Name:	HYDRO zone of confi	Code:	CATZOC_1	Date accepted:	2000-11-01
2	Name:	HYDRO zone of confi		CATZOC_2 2	Date accepted:	2000-11-01
3	Definition: DD Name: Name:	HYDRO zone of confi		CATZOC_3	Date accepted:	2000-11-01
4	Definition: DD Name: Name:	HYDRO zone of confi		CATZOC_4	Date accepted:	2000-11-01
5	Definition: DD Name: Name:	HYDRO zone of confi		CATZOC_5	Date accepted:	2000-11-01
6	Definition: DD Name:	HYDRO	Code:	CATZOC_6	Date accepted:	2000-11-01
	Name: Definition:	zone of confi	dence U	(data not assessed)		

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 Dictionary (DD) Reference						
1	DD Name: HYDR Name: white Definition:	O Code:	COLOUR_1	Date accepted:	2000-11-01		
2	DD Name: HYDR Name: black Definition:	O Code:	COLOUR_2	Date accepted:	2000-11-01		
3	DD Name: HYDR Name: red Definition:	O Code:	COLOUR_3	Date accepted:	2000-11-01		
4	DD Name: HYDR Name: green Definition:	O Code:	COLOUR_4	Date accepted:	2000-11-01		
5	DD Name: HYDR Name: blue Definition:	O Code:	COLOUR_5	Date accepted:	2000-11-01		
6	DD Name: HYDR Name: yellow Definition:	O Code:	COLOUR_6	Date accepted:	2000-11-01		

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	Attribute	Colour pattern	
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Acronym: COLPAT Code: 76

Use Type: F Value Type: L

Data Dictionary (DD) Reference:

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

Definition:

Enumerations:

6

DD Name: HYDRO

border stripe

Name:

Value	Data Diction	Data Dictionary (DD) Reference						
1	DD Name:			COLPAT_1	Date accepted:	2000-11-01		
	Name:	horizontal str	ripes					
	Definition:	straight band	ds or stri	pes of differing colours	s painted horizonta	ally.		
2	DD Name:	HYDRO	Code:	COLPAT_2	Date accepted:	2000-11-01		
	Name:	•						
	Definition:							
3	DD Name:	HYDRO	Code:	COLPAT_3	Date accepted:	2000-11-01		
	Name:	diagonal stripes						
	Definition: straight bands or stripes of differing colours painted diagonally (ie not horizontally							
4	DD Name:	HYDRO	Code:	COLPAT_4	Date accepted:	2000-11-01		
	Name:	squared						
	Definition: a chess or	on: often referred to as checker plate, where alternate colours are used to create squares similar to sor draught board. The pattern may be straight or diagonal.						
5	DD Name:	HYDRO	Code:	COLPAT_5	Date accepted:	2000-11-01		
	Name:	stripes (direc	tion unk	nown)				

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Date accepted: 2000-11-01

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

Code: COLPAT_6

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
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Acronym: COMCHA Code: 77

Use Type: F Value Type: S

Data Dictionary (DD) Reference:

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

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

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Attribute Condition

Acronym: CONDTN Code:

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.

2 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)

3 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.

3 DD Name: HYDRO Code: CONRAD_3 Date accepted: 2000-11-01

Name: radar conspicuous (has radar reflector)

Definition: an object which returns a strong radar echo, having a radar reflector.

Attribute Conspicuous, visually

Acronym: CONVIS Code: 83

Use Type: F
Value Type: E

Data Dictionary (DD) Reference:

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

Definition:

Enumerations:

Value Data Dictionary (DD) Reference

1 DD Name: HYDRO Code: CONVIS_1 Date accepted: 2000-11-01

Name: visually conspicuous

Definition: term applied to an object either natural or artificial which is distinctly and notably visible from

seaward. (IHO Dictionary, S-32, 5th Edition, 984)

2 DD Name: HYDRO Code: CONVIS_2 Date accepted: 2000-11-01

Name: not visually conspicuous

Definition: an object which is visible from seaward, but is not conspicuous.

Attribute	Current velocity
7 ttt ibate	Current velocity

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 Date start	
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Acronym: DATSTA Code: 86

Use Type: F Value Type: S

Data Dictionary (DD) Reference:

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

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

Attribute	Depth range value 1
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Acronym: DRVAL1 Code: 87

Use Type: F Value Type: F

Data Dictionary (DD) Reference:

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

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

Attribute

Acronym: DRVAL2 Code: 88

Use Type: F Value Type: F

Data Dictionary (DD) Reference:

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

Definition: The maximum (deepest) value of a depth range.

Attribute	Elevation
-----------	-----------

Acronym: ELEVAT Code: 90

Use Type: F
Value Type: F

Data Dictionary (DD) Reference:

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

Definition: The altitude of the ground level of an object, measured from a specified vertical datum.

Attribute	Exhibition condition of light
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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

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

Name: daytime light

Definition: a light which is only exhibited by day.

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		
Value Type:	E		

Data Dictionary (DD) Reference:

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	Data Diction	Pata Dictionary (DD) Reference						
1	DD Name:	HYDRO	Code:	EXPSOU_1	Date accepted:	2010-08-12		
	Name:	within the ran	nge of de	epth 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 t	than the minimum dep	th of the surround	ing depth area.		
3	DD Name:	HYDRO	Code:	EXPSOU_3	Date accepted:	2010-08-12		
	Name:	deeper than the range of depth of the surrounding depth area						
	Definition:	the depth is	deeper t	han the maximum dep	th of the surround	ing depth area.		

Attribute Function

Acronym: FUNCTN Code: 94

Use Type: F
Value Type: L

Data Dictionary (DD) Reference:

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

Definition:

Enumerations:

Value Data Dictionary (DD) Reference

DD Name: HYDRO Code: FUNCTN_2 Date accepted: 2000-11-01

Name: harbour-master's office

Definition: the office of the local official who has charge of mooring and berthing of vessels, collecting

harbour fees, etc. (adapted from IHO Dictionary, S-32, 5th Edition, 2191)

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

Name: custom office

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

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

Name: health office

Definition: the office which is charged with the administration of health laws and sanitary inspections.

(adapted from The New Shorter Oxford English Dictionary, 1993)

5 DD Name: HYDRO Code: FUNCTN_5 Date accepted: 2000-11-01

Name: hospital

Definition: an institution or establishment providing medical or surgical treatment for the ill or wounded.

(The New Shorter Oxford English Dictionary, 1993)

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

Name: post office

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

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

Value Data Dictionary (DD) Reference

7 DD Name: HYDRO Code: FUNCTN_7 Date accepted: 2000-11-01

Name: hotel

Definition: an establishment, especially of a comfortable or luxurious kind, where paying visitors are provided with accommodation, meals and other services. (The New Shorter Oxford English Dictionary,

1993)

8 DD Name: HYDRO Code: FUNCTN_8 Date accepted: 2000-11-01

Name: railway station

Definition: a building with platforms where trains arrive, load, discharge and depart. (The New Shorter

Oxford English Dictionary, 1993)

9 DD Name: HYDRO Code: FUNCTN_9 Date accepted: 2000-11-01

Name: police station

Definition: the office of the local police force.

10 DD Name: HYDRO Code: FUNCTN_10 Date accepted: 2000-11-01

Name: water-police station

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

11 DD Name: HYDRO Code: FUNCTN_11 Date accepted: 2000-11-01

Name: pilot office

Definition: the office or headquarters of pilots; the place where the services of a pilot may be obtained.

(IHO Dictionary, S-32, 5th Edition, 3845)

12 DD Name: HYDRO Code: FUNCTN_12 Date accepted: 2000-11-01

Name: pilot lookout

Definition: a distinctive structure on shore from which personnel keep watch upon events at sea or along

the coast. (IHO Dictionary, S-32, 5th Edition, 2917)

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

Name: bank office

Definition: an office for custody, deposit, loan, exchange or issue of money. (adapted from The New

Shorter Oxford English Dictionary, 1993)

14 DD Name: HYDRO Code: FUNCTN_14 Date accepted: 2000-11-01

Name: headquarters for district control

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

administrative area.

Value	Data Dictionary (DD) Reference									
15	DD Name:	HYDRO	Code:	FUNCTN_15	Date accepted:	2000-11-01				
	Name:	transit shed/\	warehou	se						
	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 Dic	Definition: a building or buildings with equipment for manufacturing; a workshop. (The New Shorter Oxford English Dictionary, 1993)								
17	DD Name:	HYDRO	Code:	FUNCTN_17	Date accepted:	2000-11-01				
	Name:	power station	power station							
	-	•	nical or	nuclear energy) into el	•	rsion of some form of energy (such ///dcGraw-Hill Dictionary of Scientific				
18	DD Name:	HYDRO	Code:	FUNCTN_18	Date accepted:	2000-11-01				
	Name:	administrative								
	Definition: Dictionary,	Definition: a building for the management of affairs. (adapted from The New Shorter Oxford English Dictionary, 1993)								
19	DD Name:	HYDRO	Code:	FUNCTN_19	Date accepted:	2000-11-01				
	Name:	educational facility								
	Definition:	a building co	ncerned	I with education (eg. se	chool, college, uni	versity, etc.)				
20	DD Name:	HYDRO	Code:	FUNCTN_20	Date accepted:	2000-11-01				
	Name:	church								
	Definition:	a building for	public (Christian worship. (The	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	Definition: a place for Christian worship other than a parish, cathedral or church, especially one attached to a private house or institution. (The New Shorter Oxford English Dictionary, 1993)								
22	DD Name:	HYDRO	Code:	FUNCTN_22	Date accepted:	2000-11-01				
	Name:	temple								
	Definition: 1993)	a building for	public .	Jewish worship. (adap	ted from The New	Shorter Oxford English Dictionary,				

Value	Data Dictio	Data Dictionary (DD) Reference							
23	DD Name:	HYDRO	Code:	FUNCTN_23	Date accepted:	2000-11-01			
	Name:	pagoda							
	Definition: 1993)	a Hindu or Buddhist temple or sacred building. (The New Shorter Oxford English Dictionary,							
24	DD Name:	HYDRO	Code:	FUNCTN_24	Date accepted:	2000-11-01			
	Name:	shinto shrine							
	Definition: 1993)	a building fo	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 temple							
	Definition:	see pagoda.							
26	DD Name:	HYDRO	Code:	FUNCTN_26	Date accepted:	2000-11-01			
	Name:	mosque							
	Definition:	a Muslim place of worship. (The New Shorter Oxford English Dictionary, 1993)							
27	DD Name:	HYDRO	Code:	FUNCTN_27	Date accepted:	2000-11-01			
	Name:	marabout							
	Definition: Dictionary,								
28	DD Name:	HYDRO	Code:	FUNCTN_28	Date accepted:	2000-11-01			
	Name:	lookout							
	Definition: keeping a watch upon events at sea or along the coast. (adapted from IHO Dictionary, Edition,2917)								
29	DD Name:	HYDRO	Code:	FUNCTN_29	Date accepted:	2000-11-01			
	Name:	communicati	ion						
	Definition: Geographic	Definition: transmitting and/or receiving electronic communication signals. (adapted from Digital Geographic Information Standard - DIGEST)							
30	DD Name:	HYDRO	Code:	FUNCTN_30	Date accepted:	2000-11-01			
	Name:	television							
	Definition:	broadcast of television signals.							
31	DD Name:	HYDRO	Code:	FUNCTN_31	Date accepted:	2000-11-01			
	Name:	radio			-				

Value	Data Dictio	Data Dictionary (DD) Reference							
	Definition:	broadcast of radio signals.							
32	DD Name:	HYDRO	Code:	FUNCTN_32	Date accepted:	2000-11-01			
	Name:	radar							
	Definition: detecting, le	a method, system or technique of using beamed, reflected, and timed radio waves for ocating, or tracking objects, and for measuring altitudes. (IHO Dictionary, S-32, 5th Edition,4158)							
33	DD Name:	HYDRO	Code:	FUNCTN_33	Date accepted:	2000-11-01			
	Name:	light support							
	Definition:	supporting a light							
34	DD Name:	HYDRO	Code:	FUNCTN_34	Date accepted:	2000-11-01			
	Name:	microwave							
	Definition:	broadcasting	and red	ceiving signals using n	nicrowaves.				
35	DD Name:	HYDRO	Code:	FUNCTN_35	Date accepted:	2000-11-01			
	Name:	cooling							
	Definition:	dissipating he	eat.						
36	DD Name:	HYDRO	Code:	FUNCTN_36	Date accepted:	2000-11-01			
	Name:	observation							
	Definition: maintained	a place from which the surroundings can be observed but at which a watch is not habitually (adapted from IHO Dictionary, S-32, 5th Edition,2917)							
37	DD Name:	HYDRO	Code:	FUNCTN_37	Date accepted:	2000-11-01			
	Name:	time ball							
	Definition:	a visual time signal in form of a ball							
38	DD Name:	HYDRO	Code:	FUNCTN_38	Date accepted:	2000-11-01			
	Name:	clock							
	Definition:	visual time signal. (adapted from S-32, 5th Edition, 5536)							
39	DD Name:	HYDRO	Code:	FUNCTN_39	Date accepted:	2000-11-01			
	Name:	control							
	Definition: DIGEST)	used to control the flow of air, rail, or marine traffic. (Digital Geographic Information Standar							
40	DD Name:	HYDRO	Code:	FUNCTN_40	Date accepted:	2000-11-01			
	Name:	airship moorii	ng						

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
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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		
Value Type:	F		

Data Dictionary (DD) Reference:

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

Definition: The width of an object, such as a canal or a tunnel, which is available for safe navigation. This may, or may

not, be the same as the total physical width of the object.

Attribute	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

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: Ν T

Value Type:

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)

Value	Data Dictionary (DD) Reference										
9	DD Name:	HYDRO	Code:	LITCHR_9	Date accepted:	2000-11-01					
	Name:	interrupted of	quick-flas	shing							
	Definition: constant a	efinition: a quick light in which the sequence of flashes is interrupted by regularly repeated eclipses of onstant and long duration. (IHO Dictionary, S-32, 5th Edition, 2790)									
5	DD Name:	HYDRO	Code:	LITCHR_5	Date accepted:	2000-11-01					
	Name:	very quick-fl	ashing								
	Definition: less than 1	a flashing liq 60 flashes pe	-	·	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 fl	ashing								
	Definition:	a flashing li	ght in wh	nich 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		•	hich the total duration eclipses are of equal o	•	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 wh y eclipses of lo			f light and darknes	ss are interrupted at regular					
11	DD Name:	HYDRO	Code:	LITCHR_11	Date accepted:	2000-11-01					
	Name:	interrupted ι	ıltra quic	k-flashing							
	Definition: intervals by	a light in wh y eclipses of lo		•) or more per minu	ute) are interrupted at regular					
12	DD Name:	HYDRO	Code:	LITCHR_12	Date accepted:	2000-11-01					
	Name:	morse									
	Definition: represent a	•	-	hich appearances of li ers 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 Dictionary (DD) Reference										
	Name:	alternating									
	Definition: sequence v		a signal light that shows, in any given direction, two or more colours in a regularly repea h a regular periodicity								
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 very quick-fla		LITCHR_25 long-flash	Date accepted:	2000-11-01					
26	DD Name: 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
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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	Multiplicity of lights
-----------	------------------------

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:

6

DD Name: HYDRO

gravel

Name:

Value	Data Dictio	nary (DD) Ref	ference				
1	DD Name:	HYDRO	Code:	NATSUR_1	Date accepted:	2000-11-01	
	Name:	mud					
	Definition:	soft, wet ear	rth				
2	DD Name:	HYDRO	Code:	NATSUR_2	Date accepted:	2000-11-01	
	Name:	clay					
	Definition:	(particles of	less tha	n 0.002 mm); stiff, stic	ky earth that beco	mes 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	d 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	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)						

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Date accepted: 2000-11-01

Code: NATSUR_6

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)

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, 1979)

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.

Value	Data Dictio	nary (DD) Ref	ary (DD) Reference						
6	DD Name:	HYDRO	Code:	NATCON_6	Date accepted:	2000-11-01			
	Name:	wooden							
	Definition:	constructed	from wo	od.					
7	DD Name:	HYDRO	Code:	NATCON_7	Date accepted:	2000-11-01			
	Name:	metal							
	Definition:	constructed	from me	tal.					
8	DD Name:	HYDRO	Code:	NATCON_8	Date accepted:	2000-11-01			
	Name:	glass reinfor	ced plas	tic (GRP)					
	Definition:	constructed	from a p	lastic material strengtl	nened with fibres o	of glass.			
9	DD Name:	HYDRO	Code:	NATCON_9	Date accepted:	2000-11-01			
	Name:	painted							
	Definition:	the application	ne application of paint to some other construction or natural feature.						

Attribute	Nature of surface - qualifying terms

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	ne 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	ne 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	ne 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	n pieces	3		

Attribute	Object class definition
	, , , , , , , , , , , , , , , , , , ,

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

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	
/ ttt//bato	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	Object name in national language	
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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

Acronym: PEREND Code: 118

Use Type: F Value Type: S

Data Dictionary (DD) Reference:

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

Definition: The end of the active period for a seasonal object (e.g. a buoy).

Attribute	Periodic date start	

Acronym: PERSTA Code: 119

Use Type: F Value Type: S

Data Dictionary (DD) Reference:

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

Definition: The start of the active period for a seasonal object (e.g. a buoy).

Attribute	Pictorial representation		
Acronym:	PICREP	Code:	120
Use Type:	F		
Value Type:	Т		

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		
Acronym:	POSACC	Code:	401
Use Type:	F,S		

Data Dictionary (DD) Reference:

F

Value Type:

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 Dictio	nary (DD) Ref	erence			
1	DD Name:	HYDRO	Code:	PRODCT_1	Date accepted:	2000-11-01
	Name:	oil				
	Definition: storage tan			d that will not dissolve Oxford Minidictionary,		petroleum based in the context of
2	DD Name:	HYDRO	Code:	PRODCT_2	Date accepted:	2000-11-01
	Name:	gas				
	Definition: storage tan		-	ticles that can move for Oxford Minidictionary,		el substance in the context of
3	DD Name:	HYDRO	Code:	PRODCT_3	Date accepted:	2000-11-01
	Name:	water				
	Definition: from the Ox	a colourless, cford Minidiction		· ·	at is a compound o	of hydrogen and oxygen. (adapted
4	DD Name:	HYDRO	Code:	PRODCT_4	Date accepted:	2000-11-01
	Name:	stone				
	Definition:	a general ter	m for ro	ck fragments. (IHO Di	ctionary, S-32, 5th	Edition, 5059)
5	DD Name:	HYDRO	Code:	PRODCT_5	Date accepted:	2000-11-01
	Name:	coal				
	Definition: Edition)	a hard black	mineral	that is burned as fuel.	. (adapted from the	e Oxford Minidictionary, Third

Value	Data Dictio	nary (DD) Ref	erence			
6	DD Name:	HYDRO	Code:	PRODCT_6	Date accepted:	2000-11-01
	Name:	ore				
	Definition: Third Editio		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: Minidictiona	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	for human consumpti	on. (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 prepar	ed for u	se in building or carpe	ntry. (adapted fror	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 suita	able for being reproces	ssed. (adapted fro	m 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	lay, mixed with wa	ater. (adapted from the Websters
22	DD Name:	HYDRO	Code:	PRODCT_22	Date accepted:	2000-11-01
	Name:	grain				
	Definition: (adapted fro			specially that of any co 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
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Acronym: QUASOU Code: 125

Use Type: F Value Type: L

Data Dictionary (DD) Reference:

Name:

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

Definition:

Enumerations:

Value	Data Diction	nary (DD) Ref	erence			
1	DD Name:	HYDRO	Code:	QUASOU_1	Date accepted:	2000-11-01
	Name:	depth known				
	Definition:	the depth fro	m chart	datum to the bottom is	s a known value.	
2	DD Name:	HYDRO	Code:	QUASOU_2	Date accepted:	2000-11-01
	Name:	depth unknow	wn			
	Definition:	the depth fro	m chart	datum to the bottom is	s unknown.	
3	DD Name:	HYDRO	Code:	QUASOU_3	Date accepted:	2000-11-01
	Name:	doubtful sour	nding			
	Definition:	a depth that	may be	less than indicated. (a	dapted from IHO I	Dictionary, S-32, 5th Edition, 4840)
4	DD Name:	HYDRO	Code:	QUASOU_4	Date accepted:	2000-11-01
	Name:	unreliable so	unding			
	Definition:	a depth that	is consi	dered to be an unrelial	ole value.	
6	DD Name:	HYDRO	Code:	QUASOU_6	Date accepted:	2000-11-01
	Name:	least depth k	nown			
	Definition: Edition, 270		depth o	ver a feature is of know	wn value. (adapted	d from IHO Dictionary, S-32, 5th
7	DD Name:	HYDRO	Code:	QUASOU_7	Date accepted:	2000-11-01

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least depth unknown, safe clearance at depth shown

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

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 pro	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			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.

Value	Data Dictio	nary (DD) Ref	erence			
15	DD Name:	HYDRO	Code:	RESTRN_15	Date accepted:	2000-11-01
	Name:	construction	prohibite	ed		
	Definition:	the erection	of perma	anent or temporary fixe	ed structures or ar	rtificial islands is prohibited.
16	DD Name:	HYDRO	Code:	RESTRN_16	Date accepted:	2000-11-01
	Name:	discharging p	orohibite	ed		
	Definition:	an area with	in which	discharging or dumping	ng is prohibited	
17	DD Name:	HYDRO	Code:	RESTRN_17	Date accepted:	2000-11-01
	Name:	discharging r	estricted	d		
	Definition: restricted in	-		ignated by an appropricified conditions.	iate authority, with	nin which discharging or dumping is
18	DD Name:	HYDRO	Code:	RESTRN_18	Date accepted:	2000-11-01
	Name:	industrial or I	mineral (exploration/developme	ent prohibited	
	Definition:	an area with	in 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 I	mineral (exploration/developme	ent restricted	
	Definition: exploration			ignated by an appropriestricted in accordance	•	nin which industrial or mineral cified conditions.
20	DD Name:	HYDRO	Code:	RESTRN_20	Date accepted:	2000-11-01
	Name:	drilling prohib	oited			
	Definition:	an area with	in which	excavating a hole on	the sea-bottom wi	ith a drill is prohibited.
21	DD Name:	HYDRO	Code:	RESTRN_21	Date accepted:	2000-11-01
	Name:	drilling restric	cted			
	Definition: sea-bottom	•		ignated by an approprid in accordance with c	•	nin which excavating a hole on the conditions.
22	DD Name:	HYDRO	Code:	RESTRN_22	Date accepted:	2000-11-01
	Name:	removal of h	istorical	artifacts prohibited		
	Definition:	an area with	in which	the removal of historic	cal artifacts is prol	nibited.
23	DD Name:	HYDRO	Code:	RESTRN_23	Date accepted:	2000-11-01
	Name:	cargo transh		lightering) prohibited	•	
	Definition:	an area in w	hich 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 pro	hibited			
	Definition:	an area in w	hich a v	essel is prohibited fron	n stopping.	
26	DD Name:	HYDRO	Code:	RESTRN_26	Date accepted:	2000-11-01
	Name:	landing proh	ibited			
	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	red		
	Definition:	The use of a	nchorin	g spuds (telescopic pil	es) is prohibited	

Attribute

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).

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	
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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
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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	Source indication			
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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:

Data Dictionary (DD) Reference:

Name:

Definition:

illuminated

lit by floodlights, strip lights, etc.

L

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

Definition:

Enumerations:

Value Data Dictionary (DD) Reference 2 DD Name: HYDRO Code: STATUS_2 Date accepted: 2000-11-01 Name: occasional Definition: acting on special occasions; happening irregularly. (The Concise Oxford Dictionary, 7th Edition) 3 DD Name: HYDRO Code: STATUS 3 Date accepted: 2000-11-01 Name: recommended Definition: presented as worthy of confidence, acceptance, use, etc. (The Macquarie Dictionary, 1988) Code: STATUS_4 4 DD Name: HYDRO Date accepted: 2000-11-01 Name: not in use Definition: no longer used for the purpose intended; disused. 8 DD Name: HYDRO Code: STATUS 8 Date accepted: 2000-11-01 Name: private Definition: not in public ownership or operation. 9 DD Name: HYDRO Code: STATUS_9 Date accepted: 2000-11-01 Name: mandatory Definition: compulsory; enforced. (The Concise Oxford Dictionary, 7th Edition) 12 DD Name: HYDRO Code: STATUS_12 Date accepted: 2000-11-01

Value	Data Diction	nary (DD) Ref	erence			
14	DD Name:	HYDRO public	Code:	STATUS_14	Date accepted:	2000-11-01
	Definition:	belonging to		le to, used or shared be 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 English	•	to be aware of any movement or)
17	DD Name:	HYDRO	Code:	STATUS_17	Date accepted:	2000-11-01
	Name:	un-watched				
	Definition: (adapted fro	•		operation, without any 32, 5th Edition, 2814)	permanently-stati	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	at 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	intervals			
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				
	Definition:	no longer lit				

Value	Data Dictio	nary (DD) Ref	erence			
13	DD Name:	HYDRO	Code:	STATUS_13	Date accepted:	2000-11-01
	Name:	historic				
	Definition:	famous in hi	story; of	historical interest		
15	DD Name:	HYDRO	Code:	STATUS_15	Date accepted:	2000-11-01
	Name:	synchronized	t			
	Definition:	occur at a tir	ne, coin	cide in point of time, b	e contemporary or	simultaneous

Attribute Survey authority	
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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.

Attribute	Survey date - start	
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Acronym: SURSTA Code: 152

Use Type: F Value Type: S

Data Dictionary (DD) Reference:

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

Definition: The start date of the survey.

Attribute Survey type

Acronym: SURTYP Code: 153

Use Type: F
Value Type: L

Data Dictionary (DD) Reference:

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

Definition:

Enumerations:

Value Data Dictionary (DD) Reference

2 DD Name: HYDRO Code: SURTYP_2 Date accepted: 2000-11-01

Name: controlled survey

Definition: a thorough survey usually conducted with reference to guidelines.

Attribute	Symbol instruction
-----------	--------------------

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).

Attribute	Technique of sounding measurement
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Acronym: TECSOU Code: 156

Use Type: F

Value Type: L

Data Dictionary (DD) Reference:

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

Definition:

Enumerations:

Value Data Dictionary (DD) Reference

1 DD Name: HYDRO Code: TECSOU_1 Date accepted: 2000-11-01

Name: found by echo-sounder

Definition: the depth was determined by using an instrument that determines depth of water by measuring the time interval between emission of a sonic or ultrasonic signal and return of its echo from the bottom. (adapted from IHO Dictionary, S-32, 1547)

DD Name: HYDRO Code: TECSOU_2 Date accepted: 2000-11-01

Name: found by side-scan-sonar

Definition: the depth was computed from a record produced by active sonar in which fixed acoustic beams are directed into the water perpendicularly to the direction of travel to scan the bottom and generate a record of the bottom configuration. (adapted from IHO Dictionary, S-32, 4710)

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

Name: found by multi-beam

Definition: the depth was determined by using a wide swath echo sounder that uses multiple beams to measure depths directly below and transverse to the ship's track. (adapted from IHO Dictionary, S-32, 3339)

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

Name: found by diver

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

Dictionary, S-32, 1422)

5 DD Name: HYDRO Code: TECSOU_5 Date accepted: 2000-11-01

Name: found by lead-line

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)

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

Name: found by laser

Definition: the depth was determined by using an instrument that measures distance by emitting timed pulses of laser light and measuring the time between emission and reception of the reflected pulses. (adapted from IHO Dictionary, S-32, 2763)

8 DD Name: HYDRO Code: TECSOU_8 Date accepted: 2000-11-01

Name: swept by vertical acoustic system

Definition: the given area has been swept using a system comprised of multiple echo sounder transducers attached to booms deployed from the survey vessel.

9 DD Name: HYDRO Code: TECSOU_9 Date accepted: 2000-11-01

Name: found by electromagnetic sensor

Definition: the depth was determined by using an instrument that compares electromagnetic signals. (adapted from IHO Dictionary, S-32, 1571)

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

Name: photogrammetry

Definition: the depth was determined by applying mathematical techniques to photographs. (adapted from IHO Dictionary, S-32, 3791)

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

Name: satellite imagery

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)

DD Name: HYDRO Code: TECSOU_13 Date accepted: 2000-11-01

Value Data Dictionary (DD) Reference

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_14 Date accepted: 2000-11-01

Name: computer generated

Definition: the sounding was determined from a bottom model constructed using a computer.

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

Acronym: NTXTDS Code: 304

Use Type: N
Value Type: T

Data Dictionary (DD) Reference:

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

Definition: The file name of an external text file that contains the text in a national language.

Attribute	Topmark/daymark shape		
Acronym:	TOPSHP	Code:	171

Use Type: F

Value Type: E

Data Dictionary (DD) Reference:

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

Definition:

5

Enumerations:

Value	Data Dictio	nary (DD) Reference						
1	DD Name:	HYDRO	Code:	TOPSHP_1	Date accepted:	2000-11-01		
	Name:	cone, point u	ıp					
	Definition:	is where the vertex points up.						
2	DD Name:	HYDRO	Code:	TOPSHP_2	Date accepted:	2000-11-01		
	Name:	cone, point c	lown					
	Definition:	is where the	vertex p	ooints down.				
3	DD Name:	HYDRO	Code:	TOPSHP_3	Date accepted:	2000-11-01		
	Name:	sphere						
	Definition: a body the surface of which is at all points equidistant from the centre. (The New Shorter Oxford English Dictionary. 1993. vol 2). Spheres are commonly used as International Association of Lighthouse Authorities - IALA topmarks (safe water).							
4	DD Name:	HYDRO	Code:	TOPSHP_4	Date accepted:	2000-11-01		
	Name:	2 spheres						
	Definition:	two black spheres are commonly used as an International Association of Lighthouse Authorities						

- IALA topmark (isolated danger).

Code: TOPSHP_5

Name: cylinder (can)

DD Name: HYDRO

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

Date accepted:

2000-11-01

Value Data Dictionary (DD) Reference

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

6 DD Name: HYDRO Code: TOPSHP_6 Date accepted: 2000-11-01

Name: board

Definition: usually of rectangular shape, made from timber or metal and used to provide a contrast with the natural background of a daymark. The actual daymark is often painted on to this board.

7 DD Name: HYDRO Code: TOPSHP_7 Date accepted: 2000-11-01

Name: x-shape (St. Andrew's cross)

Definition: having a shape or a cross-section like the capital letter X. (The New Shorter Oxford English Dictionary. 1993. vol 2). An x-shape as an International Association of Lighthouse Authorities - IALA topmark should be 3 dimensional in shape. It is made of at least three crossed bars.

8 DD Name: HYDRO Code: TOPSHP_8 Date accepted: 2000-11-01

Name: upright cross (St George's cross)

Definition: a cross with one vertical member and one horizontal member, i.e. similar in shape to the character '+'.

character 1.

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.

ap ana aown.

12 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	onary (DD) Reference							
14	DD Name:	HYDRO	Code:	TOPSHP_14	Date accepted:	2000-11-01			
	Name:	2 cones (points downward)							
	Definition:	2 cones, one above the other, with their their vertices pointing down							
15	DD Name:	HYDRO	Code:	TOPSHP_15	Date accepted:	2000-11-01			
	Name:	besom, point up (broom or perch)							
	Definition:	a bundle of ı	ods 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, point down (broom or perch)							
	Definition:	a bundle of rods or twigs. (The New Shorter Oxford English Dictionary. 1993. vol 1)							
17	DD Name:	HYDRO	Code:	TOPSHP_17	Date accepted:	2000-11-01			
	Name:	flag							
	Definition:	a flag mounted on a short pole.							
18	DD Name:	HYDRO	Code:	TOPSHP_18	Date accepted:	2000-11-01			
	Name:	sphere over	rhombus	3					
	Definition:	A sphere located above a rhombus.							
19	DD Name:	HYDRO	Code:	TOPSHP_19	Date accepted:	2000-11-01			
	Name:	square							
	Definition: English Dic	a plane figure with four right angles and four equal straight sides (The New Shorter Oxford ctionary. 1993. vol 2)							
20	DD Name:	HYDRO	Code:	TOPSHP_20	Date accepted:	2000-11-01			
	Name:	rectangle, ho	orizontal						
	•	on: a plane figure with four right angles and four straight sides, opposite sides being parallel and a length where the two longer opposite sides are standing horizontally (The New Shorter Oxford Dictionary. 1993. vol 2).							
21	DD Name:	HYDRO	Code:	TOPSHP_21	Date accepted:	2000-11-01			
	Name:	rectangle, ve	ertical						
	•	nition: a plane figure with four right angles and four straight sides, opposite sides being parallel and all in length where the two longer opposite sides are standing vertically (The New Shorter Oxford English onary. 1993. vol 2).							
22	DD Name:	HYDRO	Code:	TOPSHP_22	Date accepted:	2000-11-01			
	Name:	trapezium, u	р						

Value	Data Dictio	nary (DD) Ref	erence					
		•		g one pair of opposite nglish Dictionary. 1993	•	ch stands on its longer parallel		
23	DD Name:	HYDRO	Code:	TOPSHP_23	Date accepted:	2000-11-01		
	Name:	trapezium, d	own					
	Definition: side. (The I	a quadrilateral having one pair of opposite sides parallel which stands on its shorter parallel New Shorter Oxford English Dictionary. 1993. vol 2).						
24	DD Name:	HYDRO	Code:	TOPSHP_24	Date accepted:	2000-11-01		
	Name:	triangle, poin	t up					
	Definition: Dictionary.	a figure having three angles and three sides with point up. (New Shorter Oxford English 1993. vol 2)						
25	DD Name:	HYDRO	Code:	TOPSHP_25	Date accepted:	2000-11-01		
	Name:	triangle, poin	t down					
	Definition: Dictionary.	a figure havi 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: a perfectly round plane figure whose circumference is everywhere equidistant from its centre. (The New Shorter Oxford English Dictionary. 1993. vol 1)							
27	DD Name:	HYDRO	Code:	TOPSHP_27	Date accepted:	2000-11-01		
	Name:	two upright o	rosses (one over the other)				
	Definition:	two upright o	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	ipe like t	the capital letter T.				
29	DD Name:	HYDRO	Code:	TOPSHP_29	Date accepted:	2000-11-01		
	Name:	triangle point	ing up c	over a circle				
	Definition:	a triangle, ve	ertex upp	permost, located above	e a circle.			
30	DD Name:	HYDRO	Code:	TOPSHP_30	Date accepted:	2000-11-01		
	Name:	upright cross over a circle						
	Definition:	an upright cross located above a circle.						
31	DD Name:	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

Acronym: TRAFIC Code: 172

Use Type: F
Value Type: E

Data Dictionary (DD) Reference:

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

Definition:

Enumerations:

Value Data Dictionary (DD) Reference

1 DD Name: HYDRO Code: TRAFIC_1 Date accepted: 2000-11-01

Name: inbound

Definition: traffic flow in a general direction toward a port or similar destination.

2 DD Name: HYDRO Code: TRAFIC_2 Date accepted: 2000-11-01

Name: outbound

Definition: traffic flow in a general direction away from a port or similar point of origin.

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

Name: one-way

Definition: traffic flow in one general direction only.

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

Name: two-way

Definition: traffic flow in two generally opposite directions.

Attribute	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
	· · · · · · · · · · · · · · · · · · ·

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
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Acronym: VALMXR Code: 177

Use Type: F
Value Type: F

Data Dictionary (DD) Reference:

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

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

Attribute	Value of 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	Value of sounding		
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Acronym: VALSOU Code: 179

Use Type: F
Value Type: F

Data Dictionary (DD) Reference:

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

Definition: The value of the measurement of a sounding relative to the chart datum.

Attribute	Vertical 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

Highest astronomical tide

Definition: Vertical datum

Name:

Enumerations:

Value	Data Dictio	nary (DD) Ref	erence			
4	DD Name:	HYDRO	Code:	VERDAT_4	Date accepted:	2001-05-31
	Name:	Lowest low v	vater			
	Definition:	an arbitrary l	evel cor	forming to the lowest	tide observed at a	place, or some what lower.
24	DD Name:	HYDRO	Code:	VERDAT_24	Date accepted:	2000-11-01
	Name:	Local datum				
	Definition: measured to	an arbitrary o		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 victionary, S-32, 5th Edition, 2936)
30	DD Name:	HYDRO	Code:	VERDAT_29	Date accepted:	2000-11-01

IENC_FC_2.5.DOCX 405

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).

Attribute

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

Attribute Water level effect

Acronym: WATLEV Code: 187

Use Type: F
Value Type: E

Data Dictionary (DD) Reference:

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

Definition:

Enumerations:

Value Data Dictionary (DD) Reference

1 DD Name: HYDRO Code: WATLEV_1 Date accepted: 2000-11-01

Name: partly submerged at high water

Definition: partially covered and partially dry at high water.

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

Name: always dry

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

DD Name: HYDRO Code: WATLEV_3 Date accepted: 2000-11-01

Name: always under water/submerged

Definition: remains covered by water at all times under average meteorological conditions.

4 DD Name: HYDRO Code: WATLEV_4 Date accepted: 2000-11-01

Name: covers and uncovers

Definition: expression intended to indicate an area of a reef or other projection from the bottom of a body of water which periodically extends above and is submerged below the surface. Also referred to as dries or

uncovers. (IHO Dictionary, S-32, 5th Edition, 1111)

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

Name: awash

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

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 Type: F Value Type: L

Data Dictionary (DD) Reference:

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

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

Enumerations:

Value	Data 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 to the right)							
	Definition:	a triangular t	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 to the left)							
	Definition:	a triangular l	ooard at	the left side of the ma	in sign				
5	DD Name:	IENC	Code:	addmrk_5	Date accepted:	2001-05-31			
Name: bottom (triangle to the bottom)									
	Definition: a triangular board at the bottom of the main sign								

Attribute	Allowed consumption
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Acronym: allcon Code: 18033

Use Type: F

Value Type:

Data Dictionary (DD) Reference:

I

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 Dictio	nary (DD) Ref	erence			
1	DD Name: Name: Definition:	IENC all types	Code:	lc_ase_1	Date accepted:	2001-05-31
2	DD Name: Name: Definition:	IENC other	Code:	lc_ase_2	Date accepted:	2001-05-31
3	DD Name: Name: Definition:	IENC single vesse		lc_ase_3	Date accepted:	2001-05-31
5	DD Name:	IENC convoy	Code:	lc_ase_5	Date accepted:	2001-05-31
6		a rigid or tov		•	Data assentado	2004 05 24
6	DD Name: Name:	formation	Code:	lc_ase_6	Date accepted:	2001-00-31
	Definition:	the manner	in which	a convoy is assemble	ed	
7	DD Name: Name:	IENC rigid convoy	Code:	lc_ase_7	Date accepted:	2001-05-31
	Definition:		nvoy or	breasted up formation	l	

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 Dictio	nary (DD) Ref	erence			
1	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:					
3	DD Name:	IENC	Code:	lc_asi_3	Date accepted:	2001-05-31
	Name:	single vesse	I			
	Definition:					
5	DD Name:	IENC	Code:	lc_asi_5	Date accepted:	2001-05-31
	Name:	convoy				
	Definition:	a rigid or tow	ved conv	voy of craft		
6	DD Name:	IENC	Code:	lc_asi_6	Date accepted:	2001-05-31
	Name:	formation				
	Definition:	the manner	in which	a convoy is assemble	ed	
7	DD Name:	IENC	Code:	lc_asi_7	Date accepted:	2001-05-31
	Name:	rigid convoy				
	Definition:	a pushed co	nvoy or	breasted up formation	1	

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

A 44 a! la 4 a	A construction Time Bufferness
Attribute	Average Passing Time Reference

Acronym: aptref Code: 17099

Use Type: F Value Type: T

Data Dictionary (DD) Reference:

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

Definition: The string encodes the file name of an external file

Attribute 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

	Bunker vessel, availability	Attribute	
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Acronym: bunves Code: 17065

Use Type: F
Value Type: E

Data Dictionary (DD) Reference:

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

Definition: Indication of the availability of a bunker vessel

Enumerations:

Value Data Dictionary (DD) Reference

1 DD Name: IENC Code: bunves_1 Date accepted: 2001-05-31

Name: bunker vessel available

Definition: a bunker vessel is available

2 DD Name: IENC Code: bunves_2 Date accepted: 2001-05-31

Name: no bunker vessel available

Definition: a bunker vessel is not available

Attribute	Category of anchorage	
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Acronym: catach Code: 17000

Use Type: F
Value Type: L

Data Dictionary (DD) Reference:

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

Definition: Category of anchorage

Enumerations:

6

DD Name: IENC

Value	Data Dictio	onary (DD) Reference							
1	DD Name:	IENC	Code:	catach_1	Date accepted:	2001-05-31			
	Name:	unrestricted	anchora	ge					
	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 ancho	tanker anchorage						
	Definition:	an area in w	hich tan	kers anchor or may ar	nchor.				
4	DD Name:	IENC	Code:	catach_4	Date accepted:	2001-05-31			
	Name:	explosives a	nchorag	е					
	Definition: 5th Edition,		apart for	anchored ships disch	arging or receiving	g explosives. (IHO Dictionary, S-32,			
5	DD Name:	IENC	Code:	catach_5	Date accepted:	2001-05-31			
	Name:	quarantine anchorage							
	Definition: an area where a vessel anchors when satisfying quarantine regulations. (IHO Dictionar 5th Edition, 4117)								

IENC_FC_2.5.DOCX 419

Date accepted:

2001-05-31

Code: catach_6

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

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 Dictio	tionary (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 loadii	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	are suita	ble/ meant for berthing	g overnight.		
4	DD Name:	IENC	Code:	catbrt_4	Date accepted:	2001-05-31	
	Name:	berth for pushing-navigation vessels					
	Definition:	an place wh	ere push	ning-navigation vessel	s may berth.		
5	DD Name:	IENC	Code:	catbrt_5	Date accepted:	2001-05-31	
	Name:	berth for other vessels than pushing-navigation vessels					
	Definition:	an place wh	ere othe	r vessels than pushing	g-navigation vesse	els may berth.	
6	DD Name:	IENC	Code:	catbrt_6	Date accepted:	2001-05-31	
	Name:	fleeting area					
	Definition:	A legally per	mitted a	area in or near the wate	erway designated	for temporary barge mooring.	

7 DD Name: IENC Code: catbrt_7 Date accepted: 2001-05-31

Name: first class landing

Definition: A federally designated area that provides tie-ups and at least 9 feet (2.7m) of water depth

during low water level.

8 DD Name: IENC Code: catbrt_8 Date accepted: 2001-05-31

Name: second class landing

Definition: A federally designated area that provides tie-ups and at least 9 feet (2.7m) of water depth

normal pool level.

9 DD Name: IENC Code: catbrt_9 Date accepted: 2012-12-19

Name: berth for passenger vessels

Definition:

Attribute	Category of bunker station

Acronym: catbun Code: 17067

Use Type: F
Value Type: L

Data Dictionary (DD) Reference:

Name:

power

Definition: power supply available

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

Definition: Category of bunker station

Enumerations:

Value Data Dictionary (DD) Reference 1 DD Name: IENC Code: catbun_1 Date accepted: 2001-05-31 Name: diesel oil Definition: diesel oil available 2 DD Name: IENC Code: catbun_2 Date accepted: 2001-05-31 Name: water Definition: water available DD Name: IENC 3 Code: catbun_3 Date accepted: 2001-05-31 ballast Name: Definition: ballast available 4 DD Name: IENC Code: catbun_4 Date accepted: 2001-05-31

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 Dictionary (DD) Reference							
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 m	•		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 ch	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						

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:

Value	Data Dictio	nary (DD) Ref	erence			
1	DD Name: Name: Definition:	IENC all types	Code:	lc_cce_1	Date accepted:	2001-05-31
2	DD Name: Name: Definition:	IENC other	Code:	lc_cce_2	Date accepted:	2001-05-31
4	DD Name: Name: Definition:	bulk		lc_cce_4 ous cargo poured loos	Date accepted: e in a certain space	2001-05-31 ce of a vessel e.g. oil or grain
5	DD Name: Name: Definition:	IENC dry cargo	Code:	lc_cce_5	Date accepted:	2001-05-31
6	DD Name: Name: Definition:	IENC liquid cargo	Code:	lc_cce_6	Date accepted:	2001-05-31
7	DD Name: Name: Definition:	IENC liquid cargo		lc_cce_7	Date accepted:	2001-05-31

8 DD Name: IENC Code: lc_cce_8 Date accepted: 2001-05-31

Name: liquid cargo (type C)

Definition:

9 DD Name: IENC Code: lc_cce_9 Date accepted: 2001-05-31

Name: gas

Definition:

Attribute	Category of cargo (including)	
Acronym:	lc_cci	Code: 18016
Use Type:	F	
Value Type:	L	

Data Dictionary (DD) Reference:

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

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

Enumerations:

Malara	Data Diatia	(DD) D				
Value	Data Dictio	nary (DD) Ref	erence			
1	DD Name:	IENC	Code:	lc_cci_1	Date accepted:	2001-05-31
	Name:	all types				
	Definition:					
2	DD Name:	IENC	Code:	lc_cci_2	Date accepted:	2001-05-31
	Name:	other				
	Definition:					
4	DD Name:	IENC	Code:	lc_cci_4	Date accepted:	2001-05-31
	Name:	bulk			·	
	Definition:	unpacked ho	omogeno	ous cargo poured loos	e in a certain spac	ce of a vessel e.g. oil or grain
_						
5	DD Name:		Code:	lc_cci_5	Date accepted:	2001-05-31
	Name:	dry cargo				
	Definition:					
6	DD Name:	IENC	Code:	lc_cci_6	Date accepted:	2001-05-31
	Name:	liquid cargo				
	Definition:					
7	DD Name:	IENC	Code:	lc_cci_7	Date accepted:	2001-05-31
	Name:	liquid cargo			•	
	Definition:	iiqaia oaigo	(-,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
	טטווווווטוו.					

8 DD Name: IENC Code: lc_cci_8 Date accepted: 2001-05-31

Name: liquid cargo (type C)

Definition:

9 DD Name: IENC Code: lc_cci_9 Date accepted: 2001-05-31

Name: gas

Definition:

Attribute	Category of CEMT class	
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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	ctionary (DD) Reference						
1	DD Name:	IENC	Code:	catccl_1	Date accepted:	2001-05-31		
	Name:	0 small vessels and pleasure craft						
	Definition:	designated f	designated for 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	est of river Elbe)	or of type "Gross Finow" (east of		
3	DD Name:	IENC	Code:	catccl_3	Date accepted:	2001-05-31		
	Name:	II campine barge						
	Definition: river Elbe)	designated f	or barge	es of type "Kempenaar	" (west of river Elb	oe) or of type "BM-500" (east of		
4	DD Name:	IENC	Code:	catccl_4	Date accepted:	2001-05-31		
	Name:	III Dortmund	-Ems ba	ırge				
	Definition: designated for barges of type "Gustav Koenigs" (west of river Elbe) or of a similar typ concerning the dimensions (east of river Elbe)							
5	DD Name:	IENC	Code:	catccl_5	Date accepted:	2001-05-31		
	Name:	IV Rhine-He	rne barg	е				
	Definition:	designated f	or barge	es of type "Johann We	lker"			
6	DD Name:	IENC	Code:	catccl_6	Date accepted:	2001-05-31		

Name: Va Large Rhine barge; 1-barge push-tow unit

Definition: designated for barges of type "Large Rhine barge" or pushed convoys with one barge

7 DD Name: IENC Code: catccl_7 Date accepted: 2001-05-31

Name: Vb 2-barge push-tow unit; long formation

Definition: designated for pushed convoys with two barges, long formation

8 DD Name: IENC Code: catccl_8 Date accepted: 2001-05-31

Name: VIa 2-barge push-tow unit; wide formation

Definition: designated for pushed convoys with two barges, wide formation

9 DD Name: IENC Code: catccl_9 Date accepted: 2001-05-31

Name: VIb 4-barge push-tow unit

Definition: designated for pushed convoys with four barges

10 DD Name: IENC Code: catccl_10 Date accepted: 2001-05-31

Name: VIc 6-barge push-tow unit

Definition: designated for pushed convoys with six barges

11 DD Name: IENC Code: catcol 11 Date accepted: 2001-05-31

Name: No CEMT class

Definition:

12 DD Name: IENC Code: catccl_12 Date accepted: 2011-10-04

Name: VII 9-barge push-town unit

Definition:

Attribute	Category of checkpoint
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Acronym: catchp Code: 17010

Use Type: F
Value Type: L

Data Dictionary (DD) Reference:

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

Definition: Category of checkpoint

Enumerations:

Value Data Dictionary (DD) Reference

1 DD Name: IENC Code: catchp_1 Date accepted: 2001-05-31

Name: custom

Definition: an office, especially in ports, at which customs dues are collected or administrated. (adapted

from The New Shorter Oxford English Dictionary, 1993)

2 DD Name: IENC Code: catchp_2 Date accepted: 2001-05-31

Name: border

Definition: an office, at which immigration control takes place

Attribute	Category of communication

Acronym: catcom Code: 17069

Use Type: F
Value Type: L

Data Dictionary (DD) Reference:

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

Definition: Category of communication

Enumerations:

Value Data Dictionary (DD) Reference

1 DD Name: IENC Code: catcom_1 Date accepted: 2001-05-31

Name: VTS centre

Definition: The centre from which Vessel Traffic Services are operated. A VTS is a service implemented by a competent authority, designed to improve the safety and efficiency of vessel traffic and to protect the environment. The services should have the capability to interact with the traffic and to respond to traffic situations developing in the area.

2 DD Name: IENC Code: catcom_2 Date accepted: 2001-05-31

Name: VTS sector

Definition: The service area of a VTS centre.

3 DD Name: IENC Code: catcom_3 Date accepted: 2001-05-31

Name: IVS point

Definition: A reporting point of the "Informatie en Volgsysteem voor de Scheepvaart" in the Netherlands.

4 DD Name: IENC Code: catcom_4 Date accepted: 2001-05-31

Name: 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

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 Dictio	nary (DD) Re	ference			
value	Data Dictio	mary (DD) Ne	ierence			
1	DD Name:	IENC	Code:	catexs_1	Date accepted:	2001-05-31
	Name:	Lift-Lock				
	Definition:	A lock of wh	ich the l	ock chamber itself is li	fted vertically to le	vel with the next waterway section
2	DD Name:	IENC	Code:	catexs_2	Date accepted:	2001-05-31
	Name:	Aqueduct				
	Definition: properly ca		•	o the ancient aqueduc ge. (From Webster's R	,	a canal over a river or hollow; more d Dictionary, 1913)
3	DD Name:	IENC	Code:	catexs_3	Date accepted:	2001-05-31
	Name:	Sloping plan	e lock			
	Definition: waterway s		ich the l	ock chamber itself trav	vels over a sloping	plane to level with the next
4	DD Name:	IENC	Code:	catexs_4	Date accepted:	2001-05-31

Name: Water slope lock (Pente d'Eau)

Definition: In French "Pente d'Eau". A lock of which the lock chamber is formed by a sloping plane and moving gate, which is pushing a triangular section of water up along the slope to level with the next waterway section

5 DD Name: IENC Code: catexs_5 Date accepted: 2001-05-31

> Name: Other

Definition: other categories of an exceptional structure

Attribute Category of ferry

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

DD Name: IENC Code: catfrq_2 Date accepted: 2014-11-26

Name: 60Hz

Definition: 60 Hertz

Attribute Category of harbour ar	ea
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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 4 Date accepted: 2001-05-31

> Name: fishing harbour

Definition: a harbour with facilities for fishing boats.

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

> Name: private harbour

Definition: a harbour operated by a private body.

Attribute	Category of harbour facility

Acronym: cathaf Code: 17008

Use Type: F Value Type: L

Data Dictionary (DD) Reference:

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

Definition: Category of harbour facility

Enumerations:

Value	Data Dictio	nary (DD) Ref	erence			
1	DD Name:	IENC	Code:	cathaf_1	Date accepted:	2001-05-31
	Name:	RoRo-termin	nal			
	Definition:	a terminal fo	r roll-on	roll-off ferries.		
3	DD Name:	IENC	Code:	cathaf_3	Date accepted:	2001-05-31
	Name:	ferry termina	l			
	Definition:	a terminal fo	r passer	nger and vehicle ferrie	S.	
4	DD Name:	IENC	Code:	cathaf_4	Date accepted:	2001-05-31
	Name:	fishing harbo	our			
	Definition:	a harbour w	ith faciliti	es for fishing boats.		
6	DD Name:	IENC	Code:	cathaf_6	Date accepted:	2001-05-31
	Name:	naval base				
	Definition:	a centre of c	peration	s for naval vessels (a	dapted from The C	Collins Dictionary).
7	DD Name:	IENC	Code:	cathaf_7	Date accepted:	2001-05-31
	Name:	tanker termin	nal			
	Definition:	a terminal fo	r the bul	k handling of liquid ca	rgoes.	
8	DD Name:	IENC	Code:	cathaf_8	Date accepted:	2001-05-31
	Name:	passenger te	erminal			
	Definition:	a terminal fo	r the loa	ding and unloading of	passengers.	

Value	Data Dictio	nary (DD) Ref	ary (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	I					
	Definition:	a terminal fo	r 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		owered	by synchronous electr	ic motors used to	lift vessels (larger than boats) in		
13	DD Name:	IENC	Code:	cathaf_13	Date accepted:	2001-05-31		
	Name:	straddle carrier						
	Definition: used for mo			esigned to lift and carr stacking, shipping cor		ssels within its own framework. It is els.		
16	DD Name:	IENC	Code:	cathaf_16	Date accepted:	2001-05-31		
	Name:	service and	repair					
	Definition: equipment.	•	re mech	anical services or repa	airs can be underta	aken 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	nter located in an isola	ated spot ashore v	where patients with contagious		

diseases from vessel in quarantine are taken.

Attribute	Category of hulk

Acronym: cathlk Code: 17102

Use Type: F Value Type: L

Data Dictionary (DD) Reference:

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

Definition: Category of hulk

Name:

casino boat

Enumerations:

Value	Data Dictio	nary (DD) Ref	erence			
1	DD Name:	IENC	Code:	cathlk_1	Date accepted:	2001-05-31
	Name:	floating resta	urant			
	Definition:	a permanent	tly moore	ed floating structure, s	uch 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 moore	ed floating structure, s	uch 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 moore	ed floating structure, s	uch 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	•	tly moore	ed floating structure, o	ften constructed for	rom old ships, used as a
6	DD Name:	IENC	Code:	cathlk_6	Date accepted:	2001-05-31

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

Value	Data Dictio	nary (DD) Ref	ference			
6	DD Name:	IENC	Code:	catlam_6	Date accepted:	2001-05-31
	Name:	left-hand side	e of the	waterway		
	Definition:	indicates the	e left-har	nd side of the inland w	aterway	
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 side	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 of	f the wat	erway		
	Definition:	indicates a b	oifurcatio	on of the inland waterw	<i>ı</i> ay	
10	DD Name:	IENC	Code:	catlam_10	Date accepted:	2001-05-31
	Name:	bifurcation of	f the cha	innel		
	Definition:	indicates a b	oifurcatio	on of a channel of an ir	nland waterway	
11	DD Name:	IENC	Code:	catlam_11	Date accepted:	2001-05-31
	Name:	channel nea	r the righ	nt bank		
	Definition:	indicates tha	at the cha	annel is near the right	bank	
12	DD Name:	IENC	Code:	catlam_12	Date accepted:	2001-05-31
	Name:	channel nea	r 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	ss-over to	o the right bank		
	Definition:	indicates tha	at the cha	annel crosses from the	e left to the right b	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 b	ank
15	DD Name:	IENC	Code:	catlam_15	Date accepted:	2001-05-31

Value	Data Dictio	nary (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

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:

Value	Data Dictio	nary (DD) Ref	erence			
1	DD Name:	IENC	Code:	catnmk_1	Date accepted:	2001-05-31
	Name:	(A.1) no entr	y (gener	ral sign)		
	Definition:	Prohibition n	nark A.1	: no entry (general sig	n) (Source: CEVI	NI)
2	DD Name:	IENC	Code:	catnmk_2	Date accepted:	2001-05-31
	Name:	(A.1.1) section	ons clos	ed to use, no entry exc	cept for non-motor	rized small craft
	Definition: (Source: C		nark A.1	.1: sections closed to	use, no entry exce	ept for non-motorized small craft
3	DD Name:	IENC	Code:	catnmk_3	Date accepted:	2001-05-31
	Name:	(A.2) no over	rtaking			
	Definition:	Prohibition n	nark A.2	: no overtaking (Sour	ce: CEVNI)	
4	DD Name:	IENC	Code:	catnmk_4	Date accepted:	2001-05-31
	Name:	(A.3) no over	rtaking c	of convoys by convoys		
	Definition:	Prohibition n	nark A.3	: no overtaking of con	voys by convoys	(Source: CEVNI)
5	DD Name:	IENC	Code:	catnmk_5	Date accepted:	2001-05-31
	Name:	(A.4) no pass	sing or c	overtaking		
	Definition:	Prohibition n	nark A.4	: no passing or overta	king (Source: CE	EVNI)
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: Prohibition mark A.5: no berthing (i.e. no anchoring or making fast to the bank) on the side of the waterway on which the sign is placed (Source: CEVNI)

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: Prohibition mark A.5.1: no berthing on the stretch of water whose breadth, measured from the

sign, is shown in metres on the sign (Source: CEVNI)

8 DD Name: IENC Code: catnmk_8 Date accepted: 2001-05-31

Name: (A.6) no anchoring or trailing of anchors, cables or chains

Definition: Prohibition mark A.6: no anchoring or trailing of anchors, cables or chains on the side of the

waterway on which the sign is placed (Source: CEVNI)

9 DD Name: IENC Code: catnmk_9 Date accepted: 2001-05-31

Name: (A.7) no making fast to the bank

Definition: Prohibition mark A.7: no making fast to the bank on the side of the waterway on which the sign

is placed (Source: CEVNI)

10 DD Name: IENC Code: catnmk_10 Date accepted: 2001-05-31

Name: (A.8) no turning

Definition: Prohibition mark A.8: no turning (Source: CEVNI)

11 DD Name: IENC Code: catnmk_11 Date accepted: 2001-05-31

Name: (A.9) Do not create wash

Definition: Prohibition mark A.9: do not create wash likely to cause damage (Source: CEVNI)

12 DD Name: IENC Code: catnmk_12 Date accepted: 2001-05-31

Name: (A.10) no passing on left side (in openings of bridges or weirs)

Definition: Prohibition mark A.10: no passing on left side (in openings of bridges or weirs) (Source:

CEVNI)

13 DD Name: IENC Code: catnmk_13 Date accepted: 2001-05-31

Name: (A.10) no passing on right side (in openings of bridges or weirs)

Definition: Prohibition mark A.10: no passing on right side (in openings of bridges or weirs) (Source:

CEVNI)

14 DD Name: IENC Code: catnmk_14 Date accepted: 2001-05-31

Name: (A.12) motorized craft prohibited

Definition: Prohibition mark A.12: motorized craft prohibited (Source: CEVNI)

Value	Data Dictio	nary (DD) Ref	erence			
15	DD Name:	IENC	Code:	catnmk_15	Date accepted:	2001-05-31
	Name:	(A.13) sports	and ple	asure craft prohibited		
	Definition:	Prohibition n	nark A.1	3: sports and pleasure	e craft prohibited ((Source: CEVNI)
16	DD Name:	IENC	Code:	catnmk_16	Date accepted:	2001-05-31
	Name:	(A.14) water	skiing p	rohibited		
	Definition:	Prohibition n	nark A.1	4: water skiing prohibi	ted (Source: CE	VNI)
17	DD Name:	IENC	Code:	catnmk_17	Date accepted:	2001-05-31
	Name:	(A.15) sailing	y vessels	s prohibited		
	Definition:	Prohibition n	nark A.1	5: sailing vessels proh	ibited (Source: C	CEVNI)
18	DD Name:	IENC	Code:	catnmk_18	Date accepted:	2001-05-31
	Name:	(A.16) all cra	ft other t	than motorized vessels	s or sailing craft p	rohibited
	Definition: CEVNI)	Prohibition n	nark A.1	6: all craft other than r	motorized vessels	or sailing craft prohibited (Source:
19	DD Name:	IENC	Code:	catnmk_19	Date accepted:	2001-05-31
	Name:	(A.17) use of	sailboa	rds prohibited		
	Definition:	Prohibition n	nark A.1	7: use of sailboards pr	rohibited (Source:	CEVNI)
20	DD Name:	IENC	Code:	catnmk_20	Date accepted:	2001-05-31
	Name:	(A.20) water	bikes pr	ohibited		
	Definition:	Prohibition n	nark A.2	0: water bikes prohibit	ed (Source: CE\	/NI)
21	DD Name:	IENC	Code:	catnmk_21	Date accepted:	2001-05-31
	Name:	(A.18) end or prohibited	f zone a	uthorized for high spee	ed navigation of si	mall sport and pleasure craft
	Definition: pleasure cr	Prohibition n aft prohibited			zed for high speed	d navigation of small sport and
22	DD Name:	IENC	Code:	catnmk_22	Date accepted:	2001-05-31
	Name:	(A.19) no lau	nching o	or beaching of vessels		
	Definition:	Prohibition n	nark A.1	9: no launching or bea	aching of vessels	(Source: CEVNI)
23	DD Name:	IENC	Code:	catnmk_23	Date accepted:	2001-05-31
	Name:	(B.1) procee	d in left o	direction		
	Definition:	Regulation n	nark B.1	: proceed in left directi	ion (Source: CE\	/NI)

Value	Data Dictio	nary (DD) Re	ference			
24	DD Name:	IENC	Code:	catnmk_24	Date accepted:	2001-05-31
	Name:	(B.1) procee	d in righ	t direction		
	Definition:	Regulation r	mark B.1	: proceed in right direct	ction (Source: CE	EVNI)
25	DD Name:	IENC	Code:	catnmk_25	Date accepted:	2001-05-31
	Name:	(B.2a) move	to the s	ide of the fairway on y	our port side	
	Definition:	Regulation r	mark B.2	a: move to the side of	the fairway on yo	ur port side (Source: CEVNI)
26	DD Name:	IENC	Code:	catnmk_26	Date accepted:	2001-05-31
	Name:	(B.2b) move	to the s	ide of the fairway on y	our starboard side)
	Definition:	Regulation r	mark B.2	b: move to the side of	the fairway on yo	ur starboard side (Source: CEVNI)
27	DD Name:	IENC	Code:	catnmk_27	Date accepted:	2001-05-31
	Name:	(B.3a) keep	on the s	ide of the fairway on y	our port side	
	Definition:	Regulation r	mark B.3	a: keep on the side of	the fairway on yo	ur port side (Source: CEVNI)
28	DD Name:	IENC	Code:	catnmk_28	Date accepted:	2001-05-31
	Name:	(B.3b) keep	on the s	ide of the fairway on y	our starboard side)
	Definition:	Regulation r	mark B.3	Bb: keep on the side of	the fairway on yo	ur starboard side (Source: CEVNI)
29	DD Name:	IENC	Code:	catnmk_29	Date accepted:	2001-05-31
	Name:	(B.4a) cross	fairway	to port		
	Definition:	Regulation r	mark B.4	a: cross fairway to po	rt (Source: CEVN	NI)
30	DD Name:	IENC	Code:	catnmk_30	Date accepted:	2001-05-31
	Name:	(B.4b) cross	fairway	to starboard		
	Definition:	Regulation r	mark B.4	b: cross fairway to sta	rboard (Source:	CEVNI)
31	DD Name:	IENC	Code:	catnmk_31	Date accepted:	2001-05-31
	Name:	(B.5) stop as	s prescril	bed in the regulations		
	Definition:	Regulation r	mark B.5	s: stop as prescribed in	the regulations (Source: CEVNI)
32	DD Name:	IENC	Code:	catnmk_32	Date accepted:	2001-05-31
	Name:	(B.6) do not	exceed	the speed indicated (ir	n km/h)	
	Definition:	Regulation r	mark B.6	s: do not exceed the sp	peed indicated (in	km/h) (Source: CEVNI)
33	DD Name:	IENC	Code:	catnmk_33	Date accepted:	2001-05-31

Definition:

Value Data Dictionary (DD) Reference Name: (B.7) give a sound signal Regulation mark B.7: give a sound signal (Source: CEVNI) Definition: 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: CEVNI) 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: CEVNI) 36 DD Name: IENC Code: catnmk 36 Date accepted: 2001-05-31 Name: (B.9b) do not cross the main waterway until certain that this will not oblige vessels proceeding on it to change their course or speed 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: CEVNI) 37 DD Name: IENC Code: catnmk 37 Date accepted: 2001-05-31 Name: (B.11) obligation to enter into a radiotelephone link on the channel as indicated on the board Definition: Regulation mark B.11: obligation to enter into a radiotelephone link on the channel as indicated on the board (Source: CEVNI) 2001-05-31 38 DD Name: IENC Code: catnmk 38 Date accepted: Name: (C.1) depth of water limited Definition: Restriction mark C.1: depth of water limited (Source: CEVNI) DD Name: IENC 39 Code: catnmk 39 Date accepted: 2001-05-31 Name: (C.2) headroom limited Definition: Restriction mark C.2: headroom limited (Source: CEVNI) 40 DD Name: IENC Code: catnmk_40 Date accepted: 2001-05-31 Name: (C.3) width of passage or channel limited Definition: Restriction mark C.3: width of passage or channel limited (Source: CEVNI) 41 DD Name: IENC Code: catnmk_41 Date accepted: 2001-05-31 Name: (C.4) there are restrictions on navigation

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Restriction mark C.4: there are restrictions on navigation: see the information plate below the

Value Data Dictionary (DD) Reference sign (Source: CEVNI)

DD Name: IENC Code: catnmk_42 Date accepted: 2001-05-31

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

Definition: Restriction mark C.5: the channel lies at a distance from the left bank; the figure shown on the sign indicates the distance in metres, measured from the sign, to which vessels should keep. (Source:

CEVNI)

43 DD Name: IENC Code: catnmk_43 Date accepted: 2001-05-31

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

Definition: Restriction mark C.5: the channel lies at a distance from the right bank; ; the figure shown on the sign indicates the distance in metres, measured from the sign, to which vessels should keep. (Source: CEVNI)

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DD Name: IENC Code: catnmk_44 Date accepted: 2001-05-31

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

Definition: Recommendation mark D.1a: recommended channel in both directions (Source: CEVNI)

45 DD Name: IENC Code: catnmk_45 Date accepted: 2001-05-31

Name: (D.1b) recommended channel only in the direction indicated, passage in the opposite direction

prohibited (at bridges)

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

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: CEVNI)

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: CEVNI)

48 DD Name: IENC Code: catnmk_48 Date accepted: 2001-05-31

Name: (D.3) you are recommended to proceed in the left direction

Definition: Recommendation mark D.3: you are recommended to proceed in the left direction (Source:

CEVNI)

49 DD Name: IENC Code: catnmk_49 Date accepted: 2001-05-31

Value	Data Dictio	ry (DD) Reference		
	Name:	D.3) you are recommended to pro	ceed in the right direction	
	Definition: CEVNI)	Recommendation mark D.3: you a	re recommended to proce	eed in the right direction (Source:
50	DD Name:	ENC Code: catnmk_50	Date accepted:	2001-05-31
	Name:	E.1) entry permitted (general sign)	
	Definition:	nformation mark E.1: entry permit	ted (general sign) (Sourc	e: CEVNI)
51	DD Name:	ENC Code: catnmk_51	Date accepted:	2001-05-31
	Name:	E.2) overhead cable crossing		
	Definition:	nformation mark E.2: overhead ca	able crossing (Source: Cl	EVNI)
52	DD Name:	ENC Code: catnmk_52	Date accepted:	2001-05-31
	Name:	E.3) weir		
	Definition:	nformation mark E.3: weir (Source	e: CEVNI)	
53	DD Name:	ENC Code: catnmk_53	Date accepted:	2001-05-31
	Name:	E.4a) ferry-boat not moving indep	endently	
	Definition:	nformation mark E.4a: ferry-boat	not moving independently	(Source: CEVNI)
54	DD Name:	ENC Code: catnmk_54	Date accepted:	2001-05-31
	Name:	E.4b) ferry-boat moving independ	ently	
	Definition:	nformation mark E.4b: ferry-boat	moving independently (So	ource: CEVNI)
55	DD Name:	ENC Code: catnmk_55	Date accepted:	2001-05-31
	Name:	E.5) berthing (i.e. no anchoring or	making fast to the bank)	permitted
	Definition: side of the	nformation mark E.5: berthing (i.e terway on which the sign is place		fast to the bank) permitted on the
56	DD Name:	ENC Code: catnmk_56	Date accepted:	2001-05-31
	Name:	E.5.1) berthing permitted on the some board in meters	tretch of water of the brea	dth measured from, and shown on
	Definition: from, and s	nformation mark E.5.1: berthing p wn on the board in meters (Sour		water of the breadth measured
57	DD Name:	ENC Code: catnmk_57	Date accepted:	2001-05-31
	Name:	E.5.2) berthing permitted on the s hown on the board in meters	tretch of water bounded by	y the distances measured from, and
	Definition:	nformation mark E.5.2: berthing p	ermitted on the stretch of	water bounded by the distances

measured from, and shown on the board in meters (Source: CEVNI)

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: CEVNI)

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

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:

CEVNI)

Code: catnmk 60 60 DD Name: IENC 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:

CEVNI)

61 DD Name: IENC Date accepted: Code: catnmk_61 2001-05-31

> (E.5.6) berthing area reserved for pushing-navigation vessels that are required to carry two blue Name:

> > 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:

CEVNI)

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: CEVNI)

63 DD Name: IENC Code: catnmk_63 Date accepted: 2001-05-31

> (E.5.8) berthing area reserved for vessels other than pushing-navigation vessels that are not Name:

> > 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: CEVNI)

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Value	Data Dictionary	(DD) Reference
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64 DD Name: IENC Code: catnmk_64 Date accepted: 2001-05-31

Name: (E.5.9) berthing area reserved for vessels other than for pushing-navigation vessels that are

required to carry one blue light or one blue cone

Definition: 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: CEVNI)

65 DD Name: IENC Code: catnmk_65 Date accepted: 2001-05-31

Name: (E.5.10) berthing area reserved for vessels other than for pushing-navigation vessels that are

required to carry two blue lights or two blue cones

Definition: 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: CEVNI)

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: CEVNI)

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: CEVNI)

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: CEVNI)

69 DD Name: IENC Code: catnmk_69 Date accepted: 2001-05-31

Name: (E.5.14) berthing area reserved for all vessels that are required to carry two blue lights or two

blue cones

Definition: Information mark E.5.14: berthing area reserved for all vessels that are required to carry two blue lights or two blue cones on the side of the waterway on which the sign is placed (Source: CEVNI)

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: CEVNI)

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 the waterway on which the sign is placed (Source: CEVNI)

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

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

Definition: Information mark E.7: making fast to the bank permitted on the side of the waterway on which the sign is placed (Source: CEVNI)

73 DD Name: IENC Code: catnmk 73 Date accepted: 2001-05-31

Name: (E.7.1) berthing area reserved for loading and unloading of vehicles

Definition: Information mark E.7.1: berthing area reserved for loading and unloading of vehicles (Source:

CEVNI)

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

Name: (E.8) turning area

Definition: Information mark E.8: turning area (Source: CEVNI)

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

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

Definition: Information mark E.9a: crossing with secondary waterway ahead (Source: CEVNI)

76 DD Name: IENC Code: catnmk_76 Date accepted: 2001-05-31

Name: (E.9b) secondary waterway ahead on the right

Definition: Information mark E.9b: secondary waterway ahead on the right (Source: CEVNI)

77 DD Name: IENC 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: CEVNI)

78 DD Name: IENC Code: catnmk 78 Date accepted: 2001-05-31

Name: (E.9d) secondary waterway ahead, main waterway on the right

Definition: Information mark E.9d: secondary waterway ahead, main waterway on the right (Source:

CEVNI)

Value	Data Diction	nary (DD) Ref	erence			
79	DD Name:	IENC	Code:	catnmk_79	Date accepted:	2001-05-31
	Name:	(E.9e) secon	dary wa	terway ahead, main w	aterway on the lef	t
	Definition: CEVNI)	Information (mark E.9	e: secondary waterwa	ay ahead, main wa	aterway on the left (Source:
80	DD Name:	IENC	Code:	catnmk_80	Date accepted:	2001-05-31
	Name:	(E.9f) second	dary wat	erway on the left, mair	n waterway on the	right
	Definition: CEVNI)	Information (mark E.9	of: secondary waterwa	y on the left, main	waterway on the right (Source:
81	DD Name:	IENC	Code:	catnmk_81	Date accepted:	2001-05-31
	Name:	(E.9g) secon	dary wa	terway on the right, ma	ain waterway on th	ne left
	Definition: CEVNI)	Information I	mark E.9	g: secondary waterwa	ay on the right, ma	in waterway on the left (Source:
82	DD Name:	IENC	Code:	catnmk_82	Date accepted:	2001-05-31
	Name:	(E.9h) secon	dary wa	terway ahead and on	the left, main wate	erway on the right
	Definition: (Source: C		mark E.9	h: secondary waterwa	ay ahead and on tl	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 th	he right, main wate	erway on the left
	Definition: (Source: C		mark E.9	i: secondary waterwa	y ahead and on th	e right, main waterway on the left
84	DD Name:	IENC	Code:	catnmk_84	Date accepted:	2001-05-31
	Name:	(E.10a) cros	sing with	main waterway ahea	d	
	Definition:	Information i	mark E.1	0a: crossing with mail	n waterway ahead	(Source: CEVNI)
85	DD Name:	IENC	Code:	catnmk_85	Date accepted:	2001-05-31
	Name:	(E.10b) main	waterw	ay ahead		
	Definition:	Information i	mark E.1	0b: main waterway ah	nead (Source: CE	EVNI)
86	DD Name:	IENC	Code:	catnmk_86	Date accepted:	2001-05-31
	Name:	(E.10c) junct	ion with	main waterway ahead	l and right	
	Definition:	Information i	mark E.1	0c: junction with main	waterway ahead	and right (Source: CEVNI)
87	DD Name:	IENC	Code:	catnmk_87	Date accepted:	2001-05-31
	Name:	(E.10d) junct	ion with	main waterway ahead	d and left	

Value	Data Diction	nary (DD) Ref	erence			
	Definition:	Information i	mark E.	10d: junction with main	waterway ahead	and left (Source: CEVNI)
88	DD Name:	IENC	Code:	catnmk_88	Date accepted:	2001-05-31
	Name:	(E.10e) junct	ion with	main waterway ahead	l and right, second	dary waterway on the left
	Definition: the left (So	Information ource: CEVNI		10e: junction with main	waterway ahead	and right, secondary waterway on
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	Information (Source: CEVN		10f: junction with main	waterway ahead a	and left, secondary waterway on
90	DD Name:	IENC	Code:	catnmk_90	Date accepted:	2001-05-31
	Name:	(E.11) end or restriction	f prohibi	tion or obligation apply	ving to traffic in on	e direction only, or end of a
	Definition: end of a res	Information of the striction (Sou		•	or obligation applyi	ng to traffic in one direction only, or
91	DD Name:	IENC	Code:	catnmk_91	Date accepted:	2001-05-31
	Name:	(E.13) drinkii	ng water	supply		
	Definition:	Information i	mark E.	13: drinking water supp	oly (Source: CEV	NI)
92	DD Name:	IENC	Code:	catnmk_92	Date accepted:	2001-05-31
	Name:	(E.14) teleph	ione			
	Definition:	Information i	mark E.	14: telephone (Source	: CEVNI)	
93	DD Name:	IENC	Code:	catnmk_93	Date accepted:	2001-05-31
	Name:	(E.15) motor	ized ves	sels permitted		
	Definition:	Information i	mark E.	15: motorized vessels	permitted (Source	e: CEVNI)
94	DD Name:	IENC	Code:	catnmk_94	Date accepted:	2001-05-31
	Name:	(E.16) sport	and plea	asure craft permitted		
	Definition:	Information i	mark E.	16: sport and pleasure	craft permitted (S	Source: CEVNI)
95	DD Name:	IENC	Code:	catnmk_95	Date accepted:	2001-05-31
	Name:	(E.17) water	skiing p	ermitted		
	Definition:	Information i	mark E.′	17: water skiing permit	ted (Source: CE	√NI)
96	DD Name:	IENC	Code:	catnmk_96	Date accepted:	2001-05-31

Value	Data Dictio	nary (DD) Referenc	е		
	Name:	(E.18) sailing vess	els permitted		
	Definition:	Information mark	E.18: sailing vessels pe	rmitted (Source: (CEVNI)
97	DD Name:	IENC Code	e: catnmk_97	Date accepted:	2001-05-31
	Name:	(E.19) craft other t	nan motorized vessels	or sailing craft perr	nitted
	Definition: CEVNI)	Information mark	E.19: craft other than mo	otorized vessels or	sailing craft permitted (Source:
98	DD Name:	IENC Code	e: catnmk_98	Date accepted:	2001-05-31
	Name:	(E.20) use of sailb	pards permitted		
	Definition:	Information mark	E.20: use of sailboards	permitted (Source	: CEVNI)
99	DD Name:	IENC Code	e: catnmk_99	Date accepted:	2001-05-31
	Name:	(E.23) possibility of	f obtaining nautical info	rmation by radiotel	ephone on the channel indicated
	Definition: channel inc	Information mark licated (Source: C		ning nautical inforr	nation by radiotelephone on the
100	DD Name:	IENC Code	e: catnmk_100	Date accepted:	2001-05-31
	Name:	(E.24) water bikes	permitted		
	Definition:	Information mark	E.24: water bikes permi	tted (Source: CE\	/NI)
101	DD Name:	IENC Code	e: catnmk_101	Date accepted:	2001-05-31
	Name:	(E.21) zone author	ized for high speed nav	rigation of small sp	ort and pleasure craft
	Definition: craft (Sour	Information mark loce: CEVNI)	E.21: zone authorized fo	or high speed naviç	gation of small sport and pleasure
102	DD Name:	IENC Code	e: catnmk_102	Date accepted:	2001-05-31
	Name:	(E.22) launching o	r beaching of small craf	t permitted	
	Definition:	Information mark	E.22: launching and bea	aching of small cra	ft permitted (Source: CEVNI)
103	DD Name:	IENC Code	e: catnmk_103	Date accepted:	2009-09-11
	Name:	(BR) proceed close	e to the margin on your	port side	
	Definition:	regulation mark (E	R): proceed close to the	e margin on your p	ort side
104	DD Name:	IENC Code	e: catnmk_104	Date accepted:	2009-09-11
	Name:	(BR) proceed close	e to the margin on your	starboard side	
	Definition:	regulation mark (E	R): proceed close to the	e margin on your s	tarboard side
105	DD Name:	IENC Code	e: catnmk_105	Date accepted:	2009-09-11

Name: (BR) proceed in the middle of the river

Definition: regulation mark (BR): proceed in the middle of the river

106 DD Name: IENC Code: catnmk_106 Date accepted: 2009-09-11

Name: (BR) cross river to port

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

107 DD Name: IENC Code: catnmk 107 Date accepted: 2009-09-11

Name: (BR) cross river to starboard

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

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

Name: (BR) traffic between margins

Definition: information mark (BR): traffic between margins

109 DD Name: IENC Code: catnmk_109 Date accepted: 2009-09-11

Name: (BR) reduce speed

Definition: regulation mark (BR): reduce speed

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

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

Definition: a red-white sign shown on a wreck pontoon to indicate the side on which passage is permitted

(without wash of waves) and a red sign on the side on which passage is not permitted

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

Name: wreck pontoon, passage allowed on both sides

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

(without wash of waves)

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

Name: no passing or overtaking of convoys

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

DD Name: IENC Code: catnmk_113 Date accepted: 2009-12-09

Name: small crafts prohibited

Definition: Russian notice mark: 1.5, small crafts prohibited

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

Name: Attention! (Keep caution)

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

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

Name: fairway crossing

Definition: Russian notice mark: 2.2, fairway crossing

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

Name: shipping inspection point

Definition: Russian notice mark: 3.3, shipping inspection point

117 DD Name: IENC Code: catnmk_117 Date accepted: 2014-10-20

Name: (E.25) electrical power supply point

Definition: Information mark E.25: electrical power supply point (Source: CEVNI)

118 DD Name: IENC Code: catnmk_118 Date accepted: 2014-10-20

Name: (E.26) winter harbour

Definition: Information mark E.26: winter harbour (Source: CEVNI)

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: CEVNI)

DD Name: IENC Code: catnmk_120 Date accepted: 2014-10-20

Name: (E.27) winter shelter

Definition: Information mark E.27: winter shelter (Source: CEVNI)

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: CEVNI)

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: CEVNI)

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: CEVNI)

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
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Acronym: catrfd Code: 17071

Use Type: F
Value Type: L

Data Dictionary (DD) Reference:

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

Definition: Category of refuse dump

Enumerations:

Value Data Dictionary (DD) Reference

1 DD Name: IENC Code: catrfd_1 Date accepted: 2001-05-31

Name: cargo residue/slop

Definition: A facility where vessels can dispose of cargo residues and/or slops.

2 DD Name: IENC Code: catrfd_2 Date accepted: 2001-05-31

Name: waste oil

Definition: A facility where vessels can dispose of waste oil.

3 DD Name: IENC Code: catrfd_3 Date accepted: 2001-05-31

Name: grey/black water

Definition: A facility where vessels can dispose of grey and/or black waste water.

4 DD Name: IENC Code: catrfd_4 Date accepted: 2001-05-31

Name: domestic refuse

Definition: A facility where vessels can dispose of domestic refuse.

Attribute Category of rescue station

Code: 17106 Acronym: catrsc

Use Type: Value Type: L

Data Dictionary (DD) Reference:

DD Name: **IENC** Date accepted: 2010-09-17

Definition: Category of rescue station

Enumerations:

Value	Data Diction	nary (DD) Ref	erence					
1	DD Name:	IENC	Code:	catrsc_1	Date accepted:	2010-09-17		
	Name:	rescue station with life boat						
	Definition: a place where equipment for saving life at sea is maintained; the type of lifeboat may vary from fast, long distance boats to inflatable inshore boats. (IHO Chart Specifications, M-4).							
2	DD Name:	IENC	Code:	catrsc_2	Date accepted:	2010-09-17		
	Name:	rescue station with rocket						
		rocket - a pyrotechnic projectile used for signalling or for life-saving purposes. (IHO Dictionary, Edition, 4418).						
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 ship-wrecked mariners						

Definition: shelter or protection from danger in areas exposed to extreme and sudden tides or tidal streams.

Date accepted: 2010-09-17

Name:

DD Name: IENC

5

6 DD Name: IENC Code: catrsc_6 Date accepted: 2010-09-17

Definition: shelter or protection from danger or distress at sea.

refuge for intertidal area walkers

Code: catrsc_5

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	Category of sensor		
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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

1 DD Name: IENC Code: catsen_1 Date accepted: 2011-12-19

Name: light activated

Definition: A sensor which is activated by a spotlight

2 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)
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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) Rei	ference			
1	DD Name:			lc_cse_1	Date accepted:	2001-05-31
2	Definition: DD Name: Name:	IENC other	Code:	lc_cse_2	Date accepted:	2001-05-31
3	Definition: DD Name: Name:	IENC		lc_cse_3	Date accepted:	2001-05-31
5	Definition: DD Name: Name:	IENC craft	Code:	lc_cse_5	Date accepted:	2001-05-31
	Definition:	a vessel or i	tem of flo	oating equipment		
6	DD Name:	IENC vessel	Code:	lc_cse_6	Date accepted:	2001-05-31
			aterway	vessel or sea going sh	nip	
7	DD Name:	IENC inland water		lc_cse_7 sel	Date accepted:	2001-05-31
	Definition:	a vessel inte	ended so	olely or mainly for navi	gation on inland w	aterways

Value	Data Dictio	ary (DD) Reference
8	DD Name:	ENC Code: lc_cse_8 Date accepted: 2001-05-31
	Name:	sea going ship
	Definition:	a vessel certificated for sea-going service
9	DD Name:	ENC Code: lc_cse_9 Date accepted: 2001-05-31
	Name:	notor vessel
	Definition:	a motor cargo vessel or a motor tanker
10	DD Name:	ENC Code: lc_cse_10 Date accepted: 2001-05-31
	Name:	notor tanker
	Definition: under its or	a vessel intended for the carriage of goods in fixed tanks and built to navigate independently motive power
11	DD Name:	ENC Code: lc_cse_11 Date accepted: 2001-05-31
	Name:	notor cargo vessel
	Definition: independer	a vessel, other than a motor tanker, intended for the carriage of goods and built to navigate y under its own motive power
12	DD Name:	ENC Code: lc_cse_12 Date accepted: 2001-05-31
	Name:	canal barge
	Definition: operating of	an inland waterway vessel not exceeding 38.5 m in length and 5.05 m in breadth and usually the Rhine-Rhône-Canal
13	DD Name:	ENC Code: lc_cse_13 Date accepted: 2001-05-31
	Name:	ug
	Definition:	a vessel specially built to perform towing operations
14	DD Name:	ENC Code: lc_cse_14 Date accepted: 2001-05-31
	Name:	pusher
	Definition:	a vessel specially built to propel a pushed convoy
15	DD Name:	ENC Code: lc_cse_15 Date accepted: 2001-05-31
	Name:	parge
	Definition:	a dumb barge or tank barge
16	DD Name:	ENC Code: lc_cse_16 Date accepted: 2001-05-31
	Name:	ank barge
	Definition:	a vessel intended for the carriage of goods in fixed tanks and built to be towed, either having no

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_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

DD Name: IENC Code: lc_cse_18 Date accepted: 2001-05-31

Name: lighter

Definition: a tank lighter, cargo lighter or ship borne lighter

19 DD Name: IENC Code: lc_cse_19 Date accepted: 2001-05-31

Name: tank lighter

Definition: a vessel intended for the carriage of goods in fixed tanks, built or specially modified to be pushed, either having no motive power of its own or having only sufficient motive power to perform restricted

manoeuvres when not part of a pushed convoy

20 DD Name: IENC Code: lc_cse_20 Date accepted: 2001-05-31

Name: cargo lighter

Definition: a vessel, other than a tank lighter, intended for the carriage of goods and built or specially modified to be pushed, either having no motive power of its own or having only sufficient motive power to perform restricted manoeuvres when not part of a pushed convoy

21 DD Name: IENC Code: lc_cse_21 Date accepted: 2001-05-31

Name: ship borne lighter

Definition: a lighter built to be carried aboard sea going ships and to navigate on inland waterways

22 DD Name: IENC Code: lc_cse_22 Date accepted: 2001-05-31

Name: passenger vessel

Definition: a day trip or cabin vessel constructed and equipped to carry more than 12 passengers

DD Name: IENC Code: lc_cse_23 Date accepted: 2001-05-31

Name: passenger sailing vessel

Definition: a passenger vessel fitted out mainly with a view to propulsion under sail

24 DD Name: IENC Code: lc_cse_24 Date accepted: 2001-05-31

Name: day trip vessel

Definition: a passenger vessel without overnight passenger cabins

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 passenc	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 not 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 other	er than a	a passenger vessel, int	ended 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	sport, 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		nstallati	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	et			
	Definition:	a raft or othe		ure, object or assembly	capable of navig	ation, not being a vessel or floating

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equipment or establishment

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) Re	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:			lc_csi_3	Date accepted:	2001-05-31
	Name:	non-motorize	ed vesse	el		
	Definition:	non-motoriz	ed vesse	el		
5	DD Name:	IENC	Code:	lc_csi_5	Date accepted:	2001-05-31
	Name:	craft				
	Definition:	a vessel or i	tem of fl	oating equipment		
6	DD Name:	IENC	Codo:	lc_csi_6	Date accepted:	2001-05-31
O	Name:	vessel	Code.	10_031_0	Date accepted.	2001-03-31
	Definition:	an inland wa	aterway	vessel or sea going sh	nip	
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 Diction	nary (DD) Ref	erence			
8	DD Name:	IENC	Code:	lc_csi_8	Date accepted:	2001-05-31
	Name:	sea going sh	ip			
	Definition:	a vessel cert	ificated	for sea-going service		
9	DD Name:	IENC	Code:	lc_csi_9	Date accepted:	2001-05-31
	Name:	motor vessel				
	Definition:	a motor carg	o vesse	l or a motor tanker		
10	DD Name:	IENC	Code:	lc_csi_10	Date accepted:	2001-05-31
	Name:	motor tanker				
	Definition: under its ov	a vessel inte vn motive pow		r the carriage of goods	in fixed tanks and	I built to navigate independently
11	DD Name:	IENC	Code:	lc_csi_11	Date accepted:	2001-05-31
	Name:	motor cargo	vessel			
	Definition: independen	a vessel, oth otly under its o			ed for the carriage	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 n the Rhine-R			8.5 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	ilt to perform towing op	perations	
14	DD Name:	IENC	Code:	lc_csi_14	Date accepted:	2001-05-31
	Name:	pusher				
	Definition:	a vessel spe	cially bu	ilt to propel a pushed o	convoy	
15	DD Name:	IENC	Code:	lc_csi_15	Date accepted:	2001-05-31
	Name:	barge				
	Definition:	a dumb barg	e or tan	k barge		
16	DD Name:	IENC	Code:	lc_csi_16	Date accepted:	2001-05-31
	Name:	tank barge				
	Definition:	a vessel inte	nded for	the carriage of goods	in fixed tanks and	built to be towed, either having no

motive power of its own or having only sufficient motive power to perform restricted manoeuvres

17 DD Name: IENC Code: Ic 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

DD Name: IENC 21 Code: lc_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: lc csi 23 Date accepted: 2001-05-31

> Name: passenger sailing vessel

Definition: a passenger vessel fitted out mainly with a view to propulsion under sail

24 DD Name: IENC Code: lc_csi_24 Date accepted: 2001-05-31

> Name: day trip vessel

Definition: a passenger vessel without overnight passenger cabins

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Value	Data Dictio	nary (DD) Ref	ference			
25	DD Name:	IENC	Code:	lc_csi_25	Date accepted:	2001-05-31
	Name:	cabin vessel				
	Definition:	a passengei	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 o	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 equi	pment			
	Definition: elevators	a floating ins	stallation	carrying working gea	r such as cranes,	dredging equipment, pile drivers or
28	DD Name:	IENC	Code:	lc_csi_28	Date accepted:	2001-05-31
	Name:	worksite craf	ft			
	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 esta	blishmer	nt		
	Definition: jetty or boa	, ,	installati	ion not normally intend	led 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 obje	ct			
	Definition:	a raft or othe		ure, object or assembly	y capable of navig	ation, not being a vessel or floating

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equipment or establishment

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).

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

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:

10

Value Data Dictionary (DD) Reference 2 DD Name: IENC Code: catsit_2 Date accepted: 2001-05-31 Name: port entry and departure Definition: a signal station for the control of vessels entering or leaving a port. DD Name: IENC 6 Code: catsit_6 Date accepted: 2001-05-31 Name: lock a signal station for the control of vessels entering or leaving a lock. Definition: 8 DD Name: IENC Code: catsit_8 Date accepted: 2001-05-31 Name: bridge passage Definition: a signal station for the control of vessels wishing to pass under a bridge.

DD Name: IENC Code: catsit_10 Date accepted: 2001-05-31

Name: oncoming traffic indication

Definition: indicates the oncoming traffic on an inland waterway

Attribute	Category of signal station, warning
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Acronym: catsiw Code: 17003

Use Type: F
Value Type: L

Data Dictionary (DD) Reference:

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

Definition: Category of signal station, warning

Enumerations:

Value Data Dictionary (DD) Reference

DD Name: IENC Code: catsiw_15 Date accepted: 2001-05-31

Name: high water mark

Definition: An indication of the official high water level.

16 DD Name: IENC Code: catsiw_16 Date accepted: 2001-05-31

Name: vertical clearance indication

Definition: An indication of the vertical clearance of a bridge, overhead cable, etc.

DD Name: IENC Code: catsiw_18 Date accepted: 2001-05-31

Name: depth indication

Definition: An indication of the local depth.

	Τ		
Attribute	Category of time and behaviour		

Acronym: cattab Code: 17092

Use Type: F
Value Type: E

Data Dictionary (DD) Reference:

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

Definition: 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 official	Code:	catvtr_1	Date accepted:	2001-05-31
	Definition:		g to an o	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	S		
	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 r	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

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
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Acronym: catgag Code: 17078

Use Type: F
Value Type: L

Data Dictionary (DD) Reference:

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

Definition: Category of waterway gauge

Enumerations:

Value Data Dictionary (DD) Reference

1 DD Name: IENC Code: catgag_1 Date accepted: 2001-05-31

Name: water level staff / pole

Definition: level indicator consisting of a calibrated staff/pole and the associated bench mark. (DIN 4049

Section 3, Oct. 1994)

2 DD Name: IENC Code: catgag_2 Date accepted: 2001-05-31

Name: recording water level gauge

Definition: analog or digital water level measuring and recording device. (adopted from DIN 4049 -

Section 3, Oct. 1994)

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

Name: recording water level gauge with remote access

Definition: recording water level gauge providing information remotely by any method (adopted from DIN

4049 - Section 3, Oct. 1994)

4 DD Name: IENC Code: catgag_4 Date accepted: 2001-05-31

Name: recording water level gauge with external indicator

Definition: recording gauge providing information of the water level via a large external indicator (adopted

from DIN 4049 - Section 3, Oct. 1994)

5 DD Name: IENC Code: catgag_5 Date accepted: 2001-05-31

Name: recording water level gauge with remote access and remote indicator

Definition: recording gauge providing information remotely by any method and providing information of the

water level via a large external indicator. (adopted from DIN 4049 - Section 3, Oct. 1994)

Code: 17055

Attribute	Class of dangerous cargo

Acronym: clsdng

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) Reference							
1	DD Name:	IENC	Code:	clsdng_1	Date accepted:	2001-05-31			
	Name:	one blue ligh	t / cone						
	Definition:	Vessels carr	Vessels carrying out transport operations involving certain flammable substances						
2	DD Name:	IENC	Code:	clsdng_2	Date accepted:	2001-05-31			
	Name:	two blue light	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	hts / cor	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 f	or which no blue I	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			

Attribute	Current velocity at high water level
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Acronym: curvhw Code: 17095

Use Type: F
Value Type: F

Data Dictionary (DD) Reference:

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

Definition: The rate of travel of a current at a high water level

Attribute	Current velocity at low water level	
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Acronym: curvlw Code: 17096

Use Type: F
Value Type: F

Data Dictionary (DD) Reference:

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

Definition: The rate of travel of a current at a low water level

	T
Attribute	Current velocity at mean water level

Acronym: curvmw Code: 17097

Use Type: F
Value Type: F

Data Dictionary (DD) Reference:

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

Definition: The rate of travel of a current at a mean water level

Attribute	Current velocity at other water level

Acronym: curvow Code: 17098

Use Type: F
Value Type: F

Data Dictionary (DD) Reference:

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

Definition: The rate of travel of a current at an other water level

Attribute	Description of legal conditions	
Acronym:	lg_des	Code: 18010
Use Type:	F	
Value Type:	Т	

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	ary (DD) Reference								
1	DD Name:	IENC	Code:	dirimp_1	Date accepted:	2001-05-31				
	Name:	upstream	ıpstream							
	Definition:	toward the se	ource of	a stream						
2	DD Name:	IENC	Code:	dirimp_2	Date accepted:	2001-05-31				
	Name:	downstream								
	Definition:	in the direction	on of flo	w of a current or stream	m					
3	DD Name:	IENC	Code:	dirimp_3	Date accepted:	2001-05-31				
	Name:	to the left bank								
	Definition:	toward the le	eft side o	of the bank						
4	DD Name:	IENC	Code:	dirimp_4	Date accepted:	2001-05-31				
	Name:	to the right ba	to the right bank							
	Definition:	toward the ri	ght 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	

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					

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		

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

Definition: Downstream distance of the impact of an area, which is signed by notice marks. The distance is normally

given on an additional mark left and/or right of the notice mark

Attribute	Distance of impact, upstream					
Acronym:	disipu	Code: 17059				
Use Type:	F					
Value Type:	F					

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)
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Acronym: eleva2 Code: 17062

Use Type: F
Value Type: F

Data Dictionary (DD) Reference:

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

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

reference level.

Attribute	Elevation of water level	

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	ary (DD) Reference							
1	DD Name:	IENC	Code:	fnctnm_1	Date accepted:	2001-05-31				
	Name:	prohibition m	nark							
	Definition:	marks which	indicate	e a prohibition						
2	DD Name:	IENC	Code:	fnctnm_2	Date accepted:	2001-05-31				
	Name:	regulation m	ark							
	Definition:	marks which	indicate	e a regulation						
3	DD Name:	IENC	Code:	fnctnm_3	Date accepted:	2001-05-31				
	Name:	restriction mark								
	Definition:	marks which	indicate	e a restriction						
4	DD Name:	IENC	Code:	fnctnm_4	Date accepted:	2001-05-31				
	Name:	recommenda	recommendation mark							
	Definition:	marks which	indicate	e a recommendation						
5	DD Name:	IENC	Code:	fnctnm_5	Date accepted:	2001-05-31				
	Name:	information mark								
	Definition:	marks with g	marks with general information							

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
Hea Type:	F	

Use Type: F
Value Type: E

Data Dictionary (DD) Reference:

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

Definition: Units of measure of waterway distances

Enumerations:

Value	Data Dictio	ata Dictionary (DD) Reference						
1	DD Name:	IENC	Code:	hunits_1	Date accepted:	2001-05-31		
	Name:	metres						
	Definition:	heights/leng	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/leng	ths are s	specified in feet (imper	rial units of length)			
3	DD Name:	IENC	Code:	hunits_3	Date accepted:	2001-05-31		
	Name:	kilometres						
	Definition:	heights/leng	ths are s	specified in kilometres	(1000 metres)			
4	DD Name:	IENC	Code:	hunits_4	Date accepted:	2001-05-31		
	Name:	hectometres						
	Definition:	heights/leng	ths are s	specified in hectometre	es (100 metres)			
5	DD Name:	IENC	Code:	hunits 5	Date accepted:	2001-05-31		
	Name:	statute miles		- · · · -				
	Definition:			specified in statue (lan	d) miles			
6	DD Name:	IENIC	Code:	hunits_6	Date accepted:	2001-05-31		
J	Name:	nautical mile		nunita_0	Date accepted.	2001-00-01		
				propition in political (a	oo) miloo			
	Deninition.	Definition: heights/lengths are specified in nautical (sea) miles						

Attribute	Horizontal clearance length					
Acronym:	horcll	Code: 17074				
Use Type:	F					
Value Type:	F					

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				

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	Marks navigational - System of					
Acronym:	marsys	Code:	17009			
Use Type:	F					
Value Type:	E					

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

System of navigational marks Definition:

Enumerations:

Value	Data Dictionary (DD) Reference							
		. ,						
1	DD Name:	IENC	Code:	marsys_1	Date accepted:	2001-05-31		
	Name:	IALA A						
	Definition: system.	navigational aids conform to the International 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 Internation	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 defined system.						
10	DD Name:	IENC	Code:	marsys_10	Date accepted:	2001-05-31		
	Name:	other system						
	Definition: Lighthouse	n: navigational aids conform to a defined system other than International Association of use Authorities -IALA.						
11	DD Name:	IENC	Code:	marsys_11	Date accepted:	2001-05-31		
	Name:	CEVNI						
	Definition:	navigational	aids cor	form to the European	Code for Inland V	Vaterways of UN/ECE.		
12	DD Name:	IENC	Code:	marsys_12	Date accepted:	2001-05-31		

Value Data Dictionary (DD) Reference

Name: Russian inland waterway regulations

Definition: navigational aids conform to the Russian inland waterway regulations.

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

Name: Brazilian national inland waterway regulations - two sides

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

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

Name: Brazilian national inland waterway regulations - side independent

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

regulations.

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

Name: Paraguay-Parana waterway - Brazilian complementary aids

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

Attribute	Maximal permitted beam	
Acronym:	lg_bme	Code: 18003
Use Type:	F	
Value Type:	F	

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		

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

Definition: The maximal permitted draught of a vessel or convoy according to the particular article/clause of the

applicable law/regulation

Attribute	Maximal permitted length		
Acronym:	lg_lgs	Code: 18	3004
Use Type:	F		
Value Type:	F		

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	
Acronym:	lg_spd	Code: 18001
Use Type:	F	
Value Type:	F	

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		

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

Attributo	Name of other locally relevant water level
Allibute	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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hignam Code: 17081 Acronym:

F Use Type: T

Value Type:

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	
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Acronym: lownam Code: 17083

Use Type: F

Value Type: T

Data Dictionary (DD) Reference:

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

Definition: Name of the water level, which is used for the attribute lowwat (value at relevant low water level) including

version identification, for example year of issue or period

Attribute	Name of relevant mean water level
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Acronym: meanam Code: 17085

Use Type: F Value Type: T

Data Dictionary (DD) Reference:

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

Definition: Name of the water level, which is used for the attribute mawat (value at relevant mean water level)

including version identification, for example year of issue or period

Attribute	Name of Sounding datum reference level
	· · · · · · · · · · · · · · · · · · ·

Acronym: sdrlev Code: 17089

Use Type: F Value Type: T

Data Dictionary (DD) Reference:

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

Definition: Name of the water level depth values are referred to

Attribute Name of vertical river datum reference level	Attribute		
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Acronym: vcrlev Code: 17090

Use Type: F Value Type: T

Data Dictionary (DD) Reference:

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

Definition: Name of the water level vertical clearance values are referred to

Attribute 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:	Т	

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 which can be used to calculate the vertical clearance

Attribute	Reference gravitational level
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Acronym: reflev Code: 17088

Use Type: F
Value Type: E

Data Dictionary (DD) Reference:

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

Definition: Gravitational reference level

Enumerations:

Value Data Dictionary (DD) Reference

1 DD Name: IENC Code: reflev_1 Date accepted: 2001-05-31

Name: Baltic datum

Definition: Baltic Datum (Baltic 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)-

DD Name: IENC Code: reflev_2 Date accepted: 2001-05-31

Name: Adriatic level

Definition: The average height of the surface of the Adriatic sea at the tide station of Trieste in Italy.

3 DD Name: IENC Code: reflev_3 Date accepted: 2001-05-31

Name: Amsterdam Ordnance Datum (NAP)

Definition: Dutch gravitational reference level that is approximately the 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:

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) Refe	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 water	erway			
	Definition:					
3	DD Name:	IENC	Code:	lg_rel_3	Date accepted:	2001-05-31
	Name:	carriage of ed	quipmen	t		
	Definition:					
4	DD Name:	IENC	Code:	lg_rel_4	Date accepted:	2001-05-31
	Name:	task,operatio	n			
	Definition:					

Attribute	Restriction
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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.

DD Name: IENC Code: restrn 2 Date accepted: 2001-05-31

Name: anchoring restricted

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

accordance with certain specified conditions.

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

Name: entry prohibited

Definition: an area within which navigation and/or anchoring is prohibited. (adapted from IHO Dictionary,

S-32, 5th Edition, 4044)

8 DD Name: IENC Code: restrn_8 Date accepted: 2001-05-31

Name: entry restricted

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

13 DD Name: IENC Code: restrn 13 Date accepted: 2001-05-31

Name: no wake

Definition: mariners must adjust the speed of their vessels to reduce the wave or wash which may cause

erosion or disturb moored vessels.

Value	Data Dictio	Data Dictionary (DD) Reference							
14	DD Name:	IENC	Code:	restrn_14	Date accepted:	2001-05-31			
	Name:	area to be av	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	overtaking prohibited						
	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 of convoys by convoys prohibited							
	Definition: prohibited	a specified a	area des	ignated by appropriate	e authority, within	which overtaking between convoys			
30	DD Name:	IENC	Code:	restrn_30	Date accepted:	2001-05-31			
	Name:	passing or overtaking prohibited							
	Definition: generally p		area des	ignated by appropriate	e authority, within	which passing or overtaking is			
31	DD Name:	IENC	Code:	restrn_31	Date accepted:	2001-05-31			
	Name:	berthing prol	nibited						
	Definition: floating ma	•		ignated by appropriate lishments may not ber	•	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: a specified area designated by appropriate authority, within which vessels, assemblies of floating material or floating establishments may not make fast to the bank.								
34	DD Name:	IENC	Code:	restrn_34	Date accepted:	2001-05-31			

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

DD Name: IENC Code: restrn_36 Date accepted: 2001-05-31

Name: restricted fairway depth

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

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

Name: restricted fairway width

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

38 DD Name: IENC Code: restrn_38 Date accepted: 2014-11-26

Name: use of spuds prohibited

Definition: the use of anchoring spuds (telescopic piles) is prohibited

40 DD Name: IENC Code: restrn_40 Date accepted: 2017-11-06

Name: SOx emission restricted

Definition: An area within which the emission of Sox is restricted.

41 DD Name: IENC Code: restrn_41 Date accepted: 2017-11-06

Name: NOx emission restricted

Definition: AN area within which the emission of Nox is restricted.

Attribute	Sounding datum reference level 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	Speed reference

Acronym: Ig_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

ribute Time Schedule Reference	Attribute
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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	

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

Definition: List of goods, which can be transshipped

Enumerations:

Value	Data Dictio	nary (DD) Ref	ference					
1	DD Name:	IENC	Code:	trshgd_1	Date accepted:	2001-05-31		
	Name:	containers						
	Definition:	boxes for ca	irgo tran	sport with standardize	d dimensions.			
2	DD Name:	IENC	Code:	trshgd_2	Date accepted:	2001-05-31		
	Name:	bulk goods						
	Definition:	unpacked b	ulk cargo	o in the same or a simi	ilar 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 distillation	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	l 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 is usually determined by the container it fills.					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

Attribute

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: AtoN

Definition: Aid to Navigation

2 DD Name: IENC Code: typatn_2 Date accepted: 2019-10-23

Name: Real AIS AtoN

Definition: An AIS station located on an existing physical aid to navigation

3 DD Name: IENC Code: typatn_3 Date accepted: 2019-10-23

Name: Virtual AIS AtoN

Definition: An electronically charted, but non-existent as a physical aid to navigation

Attribute	Type of Ship

Acronym: shptyp Code: 33066

Use Type: F
Value Type: E

Data Dictionary (DD) Reference:

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

Definition: 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	eneral cargo vessel							
	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	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 vessel								
	Definition:	a vessel tha	t is powe	ered by the wind; often	n having several m	asts.				
5	DD Name:	IENC	Code:	shptyp_5	Date accepted:	2001-05-31				
	Name:	fishing vessel								
	Definition:	a vessel tha	a vessel that is used and equipped for the fishing of living aquatic resources.							
6	DD Name:	IENC	Code:	shptyp_6	Date accepted:	2001-05-31				
	Name:	special purpo	ose vess	sel.						
	Definition:	a vessel that	t fulfills s	special purposes e.g. h	novercrafts, pilot b	oats				

Value	Data Dictionary (DD) Reference							
7	DD Name:	IENC	Code:	shptyp_7	Date accepted:	2001-05-31		
	Name:	man of War						
	Definition:	armed naval	l vessel.					
8	DD Name:	IENC	Code:	shptyp_8	Date accepted:	2001-05-31		
	Name:	submarine						
	Definition:	a vessel tha	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 aligh	ht on water.			
12	DD Name:	IENC	Code:	shptyp_12	Date accepted:	2001-05-31		
	Name:	tugboat						
	Definition:	a powerful s	mall boa	at 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 code			
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Acronym: unlocd Code: 17077

Use Type: F Value Type: T

Data Dictionary (DD) Reference:

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

Definition: The attribute unlocd should be used to encode the UN Location Code

(http://www.unece.org/cefact/locode/service/main.htm) or - in Europe - the Inland Ship Reporting Standard

(ISRS) Code

Attribute	Use of Ship
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Acronym: useshp Code: 17094

Use Type: F
Value Type: E

Data Dictionary (DD) Reference:

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

Definition: Indication of the way the ship is used

Enumerations:

Value Data Dictionary (DD) Reference

1 DD Name: IENC Code: useshp_1 Date accepted: 2001-05-31

Name: liner trade

Definition: ship is used to carry goods on a scheduled service

2 DD Name: IENC Code: useshp_2 Date accepted: 2001-05-31

Name: occasional professional shipping

Definition: ship is occasional used for professional shipping

3 DD Name: IENC Code: useshp_3 Date accepted: 2001-05-31

Name: leisure

Definition: ship is used for leisure activities

Attribute	Value at other locally relevant water level	
Acronym:	othwat	Code: 17086
Use Type:	F	

F

Value Type:

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		

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

Definition: Value at waterway gauge in case of exact high water level (according to official regulations at the specific

section of waterway)

Attribute	Value at relevant low water level		
Acronym:	lowwat	Code:	17082
Use Type:	F		
Value Type:	F		

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

Definition: Value at waterway gauge in case of exact low water level (according to official regulations at the specific

section of waterway)

Attribute	Value at relevant mean water level		
Acronym:	meawat	Code:	17084
Use Type:	F		

F

Value Type:

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	

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 I	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	ter refer	ence level				
	Definition:	low water ref	erence	level of the local area				
32	DD Name:	IENC	Code:	verdat_32	Date accepted:	2001-05-31		
	Name:	Local high water reference level						
	Definition:	high water re	eference	level of the local area				
33	DD Name:	IENC	Code:	verdat_33	Date accepted:	2001-05-31		
	Name:	Local mean water reference level						
	Definition:	mean water	referenc	e level of the local are	a			
34	DD Name:	IENC	Code:	verdat_34	Date accepted:	2001-05-31		
	Name:	Equivalent he	eight of v	water (German GIW)				
	Definition: discharge".		evel 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		

DD Name: HYDRO

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Value Data 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 low water level according to Danube Commission Definition: The water level at a discharge, which is exceeded 94 % of the year within a period of 30 years. 37 DD Name: IENC Code: verdat 37 Date accepted: 2001-05-31 Name: Highest shipping height of water according to Danube Commission Definition: The water level at a discharge, which is exceeded 1 % of the year within a period of 30 years. 38 DD Name: IENC Code: verdat 38 Date accepted: 2001-05-31 Name: Dutch river low water reference level (OLR) Definition: The water level at a discharge, which is exceeded 95 % of the year within a period of 20 years. 39 DD Name: IENC Code: verdat_39 Date accepted: 2001-05-31 Name: Russian project water level Definition: Conditional low water level with established probability (Hydrographic Terminology Dictionary, HDNO, 1984). 40 DD Name: IENC Date accepted: Code: verdat 40 2001-05-31 Name: Russian normal backwater level Highest water level derived from the upper backwater stream in watercourse or reservoir under the normal operational conditions. (Hydrographic Terminology Dictionary, HDNO, 1984). 41 DD Name: IENC Code: verdat_41 Date accepted: 2001-05-31 Name: Ohio River Datum Definition: 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 Water Reference Level (MHW) Definition:

IENC_FC_2.5.DOCX 541

Date accepted:

2000-11-01

Code: VERDAT 24

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:

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

Definition: Units of measure for water displacement

Enumerations:

Value	Data Diction	nary (DD) Ref	erence			
1	DD Name:	IENC	Code:	lg_wdu_1	Date accepted:	2001-05-31
	Name:	other				
	Definition:					
2	DD Name:	IENC	Code:	lg_wdu_2	Date accepted:	2001-05-31
	Name:	cubic meters				
	Definition:					
3	DD Name:	IENC	Code:	lg_wdu_3	Date accepted:	2001-05-31
	Name:	tonnes				
	Definition:					

Attribute Water level effect	Attribute	Water level effect				
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Acronym: watlev Code: 17104

Use Type: F
Value Type: E

Data Dictionary (DD) Reference:

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

Definition: Effect of water level

Enumerations:

Value Data Dictionary (DD) Reference

1 DD Name: IENC Code: watlev_1 Date accepted: 2001-05-31

Name: partly submerged at high water

Definition: partially covered and partially dry at high water.

DD Name: IENC Code: watlev 2 Date accepted: 2001-05-31

Name: always dry

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

3 DD Name: IENC Code: watlev_3 Date accepted: 2001-05-31

Name: always under water/submerged

Definition: remains covered by water at all times under average meteorological conditions.

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

Name: covers and uncovers

Definition: expression intended to indicate an area of a reef or other projection from the bottom of a body of water which periodically extends above and is submerged below the surface. Also referred to as dries or

uncovers. (IHO Dictionary, S-32, 5th Edition, 1111)

8 DD Name: IENC Code: watlev_8 Date accepted: 2001-05-31

Name: above mean water level

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

within a certain period of time

9 DD Name: IENC Code: watlev_9 Date accepted: 2001-05-31

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