



19th Meeting of the Data Quality Working Group

Report on the Review of S-1xx Feature Catalogues

Agenda Item 5.1A

DQWG-19, VTC Event, 25- 26 March 2024



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INTRODUCTION

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According to action DQWG 18/10, the subWG comprised of Chair, US, France and SevenCs has implemented the Cross check of feature catalogues of the following product specifications:

- S-101 Ed 1.2.0
- S-121 Ed 1.0.0
- S-122 Ed 1.0.0
- S-123 Ed 1.0.0
- S-124 Ed 1.0.0
- S-127 Ed 1.0.0
- S-128 Ed 1.0.0
- S-130 Ed 1.0.0
- S-131 Ed 1.0.0



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DISCUSSION

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- The aims of the Cross check of S-1xx Feature Catalogues
 - a) Confirm that the feature catalogue of S-1xx is consistent with its DCEG document.
 - b) Confirm that the feature catalogue of S-1xx is consistent with the feature catalogue of the S-101 Ed 1.2.0.
 - c) Confirm that the feature catalogue of S-1xx is consistent with the contents of GI registration, including confirm that the relevant items are valid in the registry.
 - d) Confirm that the feature catalogue of S-1xx is consistent with S-100 in terms of structure and content.
- Updated the results of the review of S-1xx feature catalogues reported in DQWG18 are updated to S-101 Ed 1.2.0, and made some recommendations accordingly.



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RESULTS OF THE CROSS CHECK OF FEATURE CATALOGUES

International Hydrographic Organization

1.The Cross check of S-1XX FC and its DCEG——S-121

N o.	Classi ficati on	Feature Catalogue Clause No.	DCEG ClauseNo.	Issue Type	Contents in Feature Catalogue	Contents in DCEG
1	S	3.2/3.8/3.12/3.16-3.20/ 3.27/3.28/3.31/3.32/3.43/3.44/3.48-3.50	4.6.1/4.6.3/4.6.2/4.6.74-4.6.78/4.6.56/4.6.60/4.6.66/4.6.68/4.6.25/4.6.26/4.6.8-4.6.10	Value type inconsistency 4.6.1 Label	Text (general problem)	CharacterString

Number	Name	Value type
3.2	Label	text

Item Type	Simple Attribute
Domain	MLB
AlphaCode	MAFLAB
Name	Label
Alias	MA_Label
CamelCase	label
Data Type	CharacterString
Definition	A short textual identifier of the feature or information object.
Reference	
Definition Source	
Similarity to Source	
Int1	
S-4	
Remarks	For features or information objects registered in the Feature Context Dictionary this is the full textual Feature / Information Object Type Name. This attribute is mandatory because it is used as part of the human readable textual encoding.
Quantity Specifications	



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1.The Cross check of S-1XX FC and its DCEG——S-121

No.	Classification	Feature Catalogue Clause No.	DCEG ClauseNo.	Issue Type	Contents in Feature Catalogue	Contents in DCEG
2	S	3.1/3.5/3.6/3.21-3.24/3.46	4.6.41/4.6.45/4.6.4/4.6.79/4.6.58/4.6.59/4.6.57/4.6.28/	Value type inconsistency	enumeration	TypeList
3	S	3.1/3.5/3.6/3.21-3.24/3.46	4.6.41/4.6.45/4.6.4/4.6.79/4.6.58/4.6.59/4.6.57/4.6.28	Enumeration listed values	Enumeration values had been listed.	Enumeration values had not been listed.

4.6.41 Point Type

Number	Name	Value type	Listed values	Value
3.1	Point Type	enumeration	defined computed	1 2

Item Type	Simple Attribute
Domain	MLB
AlphaCode	MAPNTT
Name	Point Type
Alias	MA_PointType
CamelCase	pointType
Data Type	pointTypeList
Definition	The type of point.
Reference	ISO 19152
Definition Source	ISO 19152:2012 clause 6.6.1
Similarity to Source	identical
Int1	
S-4	
Remarks	
Quantity Specifications	



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N O.	Classification	Feature Catalogue Clause No.	DCEG Clause No.	Issue Type	Contents in Feature Catalogue	Contents in DCEG
4	S	3.9/3.10 3.51-3.53	4.6.5/4.6.6 4.6.11-4.6.13	Value type correspondence	S100_TruncatedDate	DateTime (4.6.5、4.6.6)
						Date (4.6.11、4.6.12、4.6.13)

Number	Name	Value type
3.9	Start Lifespan	S100 TruncatedDate

Number	Name	Value type
3.51	Date Approved	S100_TruncatedDate

4.6.5 Start Lifespan

Item Type	Simple Attribute
Proposal Type	
Domain	MLB
AlphaCode	STAVER
Name	Start Lifespan
Alias	MA_beginLifespanVersion
CamelCase	startLifespan
Data Type	Date Time
Definition	Start time of a specific instance version.
Reference	ISO 19152
Definition Source	ISO 19152:2012
Similarity to Source	specialization
Int1	
S-4	
Remarks	The start time/date is mandatory.
Quantity Specifications	

4.6.11 Date Approved

Item Type	Simple Attribute
Domain	MLB
AlphaCode	
Name	Date Approved
Alias	
CamelCase	dateApproved
Data Type	Date
Definition	The date at which the source statement or document was approved by the appropriate governing body.
Reference	
Definition Source	
Similarity to Source	
Int1	
S-4	
Remarks	
Quantity Specifications	



1.The Cross check of S-1XX FC and its DCEG——S-121

N o.	Classification	Feature Catalogue Clause No.	DCEG Clause No.	Issue Type	Contents in Feature Catalogue	Contents in DCEG
5	S	3.58-3.60	4.6.14-4.6.16	Abbreviations are used for names.	BAU Name	Basic Administrative Unit Name
7	S	3.61-3.63	4.6.17	Abbreviations are used for names.	RRR Description	Right Restriction Responsibility Description
11	S	3.63	4.6.20	Abbreviations are used for names.	RRR Time Spec	Right Restriction Responsibility Time Specification

Number	Name	Value type
3.58	BAU Name	text
3.59	BAU Type	enumeration
3.60	BAU Context	text
3.61	RRR Description	text
3.62	RRR Share	real
3.63	RRR Time Spec	S100_TruncatedDate

4.6.14 Basic Administrative Unit Name

Item Type	Simple Attribute
Domain	MLB
AlphaCode	MABAUN
Name	Basic Administrative Unit Name
Alias	MA_BAUnitName
CamelCase	basicAdministrativeUnitName
Data Type	CharacterString
Definition	Optional name for an instance of a "BasicAdministrativeUnit".
Reference	ISO 19152
Definition Source	ISO 19152:2012 clause 6.4.1
Similarity to Source	specialization
Int 1	
S-4	
Remarks	
Quantity Specifications	



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1.The Cross check of S-1XX FC and its DCEG——S-121

No.	Classification	Feature Catalogue Clause No.	DCEG Clause No.	Issue Type	Contents in Feature Catalogue	Contents in DCEG
6	S	3.59	4.6.15	Value type inconsistency	enumeration	CharacterString

Number	Name	Value type
3.59	BAU Type	enumeration

4.6.15 Basic Administrative Unit Type

Item Type	Simple Attribute
Domain	MLB
AlphaCode	MABAUT
Name	Basic Administrative Unit Type
Alias	MA_BAUnitType
CamelCase	basicAdministrativeUnitType
Data Type	CharacterString
Definition	The use type of a "BasicAdministrativeUnit".
Reference	ISO 19152
Definition Source	ISO 19152:2012 clause 6.4.1
Similarity to Source	specialization
Int1	
S-4	
Remarks	
Quantity Specifications	



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1.The Cross check of S-1XX FC and its DCEG——S-121

N o.	Classification	Feature Catalogue Clause No.	DCEG ClauseNo.	Issue Type	Contents in Feature Catalogue	Contents in DCEG
8	S	3.62	4.6.18	Value type inconsistency	real	CharacterString

Number	Name	Value type
3.62	RRR Share	real

4.6.18 Right Restriction Responsibility Share

Item Type	Simple Attribute
Proposal Type	
Domain	MLB
AlphaCode	MARSHR
Name	Right Restriction Responsibility Share
Alias	MA_RRRShare
CamelCase	rightRestrictionResponsibilitiesShare
Data Type	CharacterString
Definition	A share in an instance of a subclass of a Right, Restriction or Responsibility.
Reference	ISO 19152
Definition Source	ISO 19152:2012 clause 6.4.2
Similarity to Source	specialization
Int1	
S-4	
Remarks	
Quantity Specifications	



1.The Cross check of S-1XX FC and its DCEG——S-121

N o.	Classi ficati on	Feature Catalogue Clause No.	DCEG ClauseNo.	Issue Type	Contents in Feature Catalogue	Contents in DCEG
9	S		4.6.19, 4.6.21-4.6.24, 4.6.30-4.6.38, 4.6.40, 4.6.42-4.6.44, 4.6.61, 4.6.62, 4.6.64, 4.6.67, 4.6.69-4.6.73	Missing attributes	null	Right Restriction Responsibility Share Check

4.6.19 Right Restriction Responsibility Share Check

Item Type	Simple Attribute
Proposal Type	
Domain	MLB
AlphaCode	MARSHC
Name	Right Restriction Responsibility Share Check
Alias	MA_RRRShareCheck
CamelCase	rightRestrictionResponsibilitiesShareCheck
Data Type	Boolean
Definition	Boolean indicating whether the constraint is applicable.
Reference	ISO 19152
Definition Source	ISO 19152:2012 clause 6.4.2
Similarity to Source	specialization
Int1	
S-4	
Remarks	
Quantity Specifications	

4.6.21 Right Type

Item Type	Simple Attribute
Proposal Type	
Domain	MLB
AlphaCode	MARIGT
Name	Right Type
Alias	MA_RightType
CamelCase	rightType
Data Type	Enumeration
Definition	The type of the right.
Reference	ISO 19152
Definition Source	ISO 19152:2012 clause 6.4.3
Similarity to Source	specialization
Int1	
S-4	
Remarks	
Quantity Specifications	



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No.	Classification	Feature Catalogue Clause No.	DCEG ClauseNo.	Issue Type	Contents in Feature Catalogue	Contents in DCEG
10	S	3.63	4.6.20	Value type inconsistency	S100_TruncatedDate	CharacterString

Number	Name	Value type
3.63	RRR Time Spec	S100_TruncatedDate

4.6.20 Right Restriction Responsibility Time Specification

Item Type	Simple Attribute
Proposal Type	
Domain	MLB
AlphaCode	MARRRT
Name	Right Restriction Responsibility Time Specification
Alias	MA_RRRtimeSpec
CamelCase	rightRestrictionResponsibilitiesTimeSpec
Data Type	CharacterString
Definition	Operational use of a right in time sharing.
Reference	ISO 19152
Definition Source	ISO 19152:2012 clause 6.4.2
Similarity to Source	specialization
Int1	
S-4	
Remarks	
Quantity Specifications	



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N o.	Classi ficati on	Feature CatalogueClause No.	DCEG ClauseNo.	Issue Type	Contents in Feature Catalogue	Contents in DCEG
1 2	S	3.45	4.6.27	Attributes name inconsistency	Category of Party	Party Type

Number	Name	Value type
3.45	Category of Party	enumeration

4.6.27 Party Type

Item Type	Simple Attribute
Domain	MLB
AlphaCode	MAPTYP
Name	Party Type
Alias	MA_PartyType
CamelCase	partyType
Data Type	Party Type List
Definition	The type of party
Reference	ISO 19152
Definition Source	ISO 19152:2012 clause 6.3.1
Similarity to Source	identical
Int1	
S-4	
Remarks	
Quantity Specifications	



1.The Cross check of S-1XX FC and its DCEG——S-121

No.	Classification	Feature Catalogue Clause No.	DCEG Clause No.	Issue Type	Contents in Feature Catalogue	Contents in DCEG
13	S	3.46	4.9.15.3	Part of the enumeration listed values is missing	null	Condominium

Number	Name	Value type	Listed values	Value
3.46	Party Group Type	enumeration	Agreement Association	1 2

4.9.15.3 Condominium

Item Type	Code List Value
Domain	MLB
Associated Attribute	partyGroupTypeList
Name	Condominium
Alias	
CamelCase	condominium
Definition	The resulting group is a condominium.
Reference	
Definition Source	
Similarity to Source	
Int1	
S-4	
Remarks:	



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No.	Classification	Feature Catalogue Clause No.	DCEG ClauseNo.	Issue Type	Contents in Feature Catalogue	Contents in DCEG
14	S	3.5	4.6.45	Attributes name inconsistency	Jurisdiction Domain	Jurisdiction Domain Type

Number	Name	Value type
3.5	Jurisdiction Domain	enumeration

4.6.45 Jurisdiction Domain Type

Item Type	Simple Attribute
Domain	MLB
AlphaCode	MAJDOM
Name	Jurisdiction Domain Type
Alias	MA_JurisdictionDomainType
CamelCase	jurisdictionDomainType
Data Type	jurisdictionDomainTypeList
Definition	Defines the vertical jurisdictional domain of the object delimited.
Reference	
Definition Source	
Similarity to Source	
Int1	
S-4	
Remarks	
Quantity Specifications	



1.The Cross check of S-1XX FC and its DCEG——S-121

No.	Classification	Feature Catalogue Clause No.	DCEG ClauseNo.	Issue Type	Contents in Feature Catalogue	Contents in DCEG
15	S	3.25	4.6.54	Attributes name inconsistency	Administrative Date Stamp	Source Administrative Date Stamp
16	S	3.25、 3.26、 3.29、 3.30	4.6.54, 4.6.55, 4.6.63, 4.6.65	Value type inconsistency	S100_TruncatedDate	DateTime

Number	Name	Value type
3.25	Administrative Date Stamp	S100_TruncatedDate

4.6.54 Source Administrative Date Stamp

Item Type	Simple Attribute
Domain	MLB
AlphaCode	MASASD
Name	Source Administrative Date Stamp
Alias	MA_SourceAdministrativeDateStamp
CamelCase	sourceAdministrativeDateStamp
Data Type	DateTime
Definition	The moment that the event represented by the instance of "Source" is further processed.
Reference	ISO 19152
Definition Source	ISO 19152:2014 clause 6.2.4
Similarity to Source	specialization
Int1	
S-4	
Remarks	This is the moment of "endLifespan" of old instances, and the moment of "startLifespan" of new instances.
Quantity Specifications	



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No.	Classification	Feature Catalogue Clause No.	DCEG ClauseNo.	Issue Type	Contents in Feature Catalogue	Contents in DCEG
17	S	3.26	4.6.55	Attributes name inconsistency	Authoritative Date	Source Authoritative Date

Number	Name	Value type
3.26	Authoritative Date	S100_TruncatedDate

4.6.55 Source Authoritative Date

Item Type	Simple Attribute
Domain	MLB
AlphaCode	MAACPT
Name	Source Authoritative Date
Alias	MA_SourceAuthoritiveDate
CamelCase	sourceAuthoritiveDate
Data Type	DateTime
Definition	The date of force of law of the "Source" by an authority.
Reference	ISO 19152
Definition Source	ISO 19152:2014 clause 6.2.4
Similarity to Source	specialization
Int1	
S-4	
Remarks	
Quantity Specifications	



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No.	Classification	Feature Catalogue Clause No.	DCEG ClauseNo.	Issue Type	Contents in Feature Catalogue	Contents in DCEG
18	S	3.24	4.6.57	Attributes name inconsistency (One with space and one without space)	sourceAvailabilityStatus	Source Availability Status
19	S	3.24	4.6.57	Value type inconsistency	enumeration	LA_AvailableStatusType

Number	Name	Value type	Listed values	Value
3.24	sourceAvailabilityStatus	enumeration	Archive Converted Archive Destroyed Archive Incomplete Archive Unknown Document Available	1 2 3 4 5

4.6.57 Source Availability Status

Item Type	Simple Attribute
Domain	MLB
AlphaCode	MASLSS
Name	Source Availability Status
Alias	MA_SourceAvailabilityStatus
CamelCase	sourceAvailabilityStatus
Data Type	LA_AvailableStatusType
Definition	The availability status of source document.
Reference	ISO 19152
Definition Source	ISO 19152 clause 6.2.4
Similarity to Source	restyled
Int1	
S-4	
Remarks	The code list is taken directly for ISO 19152.
Quantity Specifications	



1.The Cross check of S-1XX FC and its DCEG——S-121

No.	Classification	Feature Catalogue Clause No.	DCEG Clause No.	Issue Type	Contents in Feature Catalogue	Contents in DCEG
20	S	3.22	4.6.58	Attributes name inconsistency (One with space and one without space)	administrativeSourceType	Administrative Source Type
21	S	3.23	4.6.59	Attributes name inconsistency (One with space and one without space)	spatialSourceType	Spatial Source Type

Number	Name	Value type
3.22	administrativeSourceType	enumeration

Number	Name	Value type
3.23	spatialSourceType	enumeration

4.6.58 Administrative Source Type

Item Type	Simple Attribute
Domain	MLB
AlphaCode	MAASTY
Name	Administrative Source Type
Alias	MA_AdministrativeSourceType
CamelCase	administrativeSourceType
Data Type	administrativeSourceTypeList
Definition	The type of administrative "Source" document.
Reference	ISO 19152
Definition Source	
Similarity to Source	
Int1	
S-4	
Remarks	
Quantity Specifications	

4.6.59 Spatial Source Type

Item Type	Simple Attribute
Domain	MLB
AlphaCode	MASSTY
Name	Spatial Source Type
Alias	MA_SpatialSourceType
CamelCase	spatialSourceType
Data Type	spatialSourceTypeList
Definition	The type of spatial "Source" document.
Reference:	
Definition Source	
Similarity to Source	
Int1	
S-4	
Remarks	
Quantity Specifications	



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N o.	Classification	Feature Catalogue Clause No.	DCEG ClauseNo.	Issue Type	Contents in Feature Catalogue	Contents in DCEG
22	S	3.3	4.6.65	Attributes name inconsistency	Source Recordation Date	Source Registration Date

Number	Name	Value type
3.30	Source Recordation Date	S100_TruncatedDate

4.6.65 Source Registration Date

Item Type	Simple Attribute
Domain	MLB
AlphaCode	MASORC
Name	Source Registration Date
Alias	MA_SourceRecordation
CamelCase	sourceRecordation
Data Type	Date Time
Definition	The date of registration (recordation) of the "Source" by registering authority.
Reference	ISO 19152
Definition Source	
Similarity to Source	
Int1	
S-4	
Remarks	
Quantity Specifications	



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1.The Cross check of S-1XX FC and its DCEG——S-121

No.	Classification	Feature Catalogue Clause No.	DCEG ClauseNo.	Issue Type	Contents in Feature Catalogue	Contents in DCEG
23	S	3.16-3.21	4.6.74-4.6.79	Attributes name inconsistency (One with space and one without space)	onlineResourceLinkageURL	Online Resource Linkage URL

Number	Name	Value type
3.16	onlineResourceLinkageURL	text

4.6.74 Online Resource Linkage URL

Item Type	Simple Attribute
Proposal Type	
Domain	MLB
AlphaCode	MARURL
Name	Online Resource Linkage URL
Alias	MA_OnlineResourceLinkageURL
CamelCase	onlineResourceLinkageURL
Data Type	CharacterString
Definition	Universal Resource Locator (URL) of the online resource.
Reference	ISO 19115
Definition Source	
Similarity to Source	
Int1	
S-4	
Remarks	
Quantity Specifications	



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N o.	Classification	Feature Catalogue Clause No.	DCEG ClauseNo.	Issue Type	Contents in Feature Catalogue	Contents in DCEG
24	S	3	null	Missing attributes	3.3, 3.4, 3.11, 3.13-3.15, 3.33-3.42, 3.54-3.57, 3.64-3.66	null

Number	Name	Value type
3.3	Nationality	text
3.4	Scale minimum	integer
Number	Name	Value type
3.11	Location By Text	text
Number	Name	Value type
3.13	Interpolation Type	text
3.14	Display Name	boolean
3.15	language	text

Number	Name	Value type
3.33	Address Delivery Point	text
3.34	Address City	text
3.35	Address Administrative Area	text
3.36	Address Postcode	text
3.37	Address Country	text
3.38	Address Email Address	text
3.39	Contact Phone Number	text
3.40	Responsible Party Individual	text
3.41	Responsible Party Organisat	text
3.42	Responsible Party Position I	text

Number	Name	Value type
3.54	Individual Name	text
3.55	Organisation Name	text
3.56	Position Name	text
3.57	Organisational Role	enumeration
Number	Name	Value type
3.64	Category Of Right	enumeration
3.65	Category of Restriction	enumeration
3.66	Category Of Responsibility	enumeration



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N o.	Classification	Feature Catalogue Clause No.	DCEG ClauseNo.	Issue Type	Contents in Feature Catalogue	Contents in DCEG
25	C	4.1-4.5	null	Missing attributes		null

Number	Complex attribute
4.1	Source Address
4.2	Online Resource
4.3	Feature Name
4.4	Fixed date range
4.5	Source Contact



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No.	Classification	Feature Catalogue Clause No.	DCEG ClauseNo.	Issue Type	Contents in Feature Catalogue	Contents in DCEG
26	I	7.5、7.6	null	Missing information type	Additional Spatial Information; Supplementary information	null

Number	Information type
7.5	Additional Spatial Information
7.6	Supplementary information



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No.	Classification	Feature Catalogue Clause No.	DCEG ClauseNo.	Issue Type	Contents in Feature Catalogue	Contents in DCEG
27	I	null	4.5.6	Missing information type	null	Group Party

4.5.6 S121 Group Party

Item Type:	Information
Domain:	MLB
AlphaCode:	MAGPRT
Name:	Group Party
Alias:	MA_GroupParty
CamelCase:	groupParty
Definition:	A group of two or more parties .
Reference:	ISO 19152
Definition Source:	ISO 19152:2012 clause 6.3.2
Similarity to Source:	specialization
Int1:	
S-4:	
Remarks:	Realized from ISO 19152 LADM "LA_GroupParty" which stereotypes this object as a "featureType". Since it is not a feature in the same sense as the term feature is used in IHO S-100, the stereotype has been removed. LA_GroupParty describes any number of parties, forming together a distinct entity, with each party registered. Since LA_GroupParty is a subtype of LA_Party this is described as a single class "Party" that includes a conditional attribute "partyGroupTypeList" that defines the type of a group party.



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No.	Classification	Feature Catalogue Clause No.	DCEG ClauseNo.	Issue Type	Contents in Feature Catalogue	Contents in DCEG
28	F	8.5	4.2.7	Feature type name inconsistency	Low Tide Elevation Baseline	Low Tide Elevations

Number	Feature type
8.5	Low Tide Elevation Baseline

4.2.7 Low Tide Elevations

Item Type	Feature
Proposal Type	Addition
Domain	MLB
AlphaCode	LTEBLN
Name	Low Tide Elevations
Alias	MA_LowTideElevationsBaseline
CamelCase	LowTideElevationBaseline
Use Type	Administrative
Definition	See the UNCLOS reference.
Reference	UNCLOS: Article 13
Definition Source	UNCLOS "CI_Citation"
Similarity to Source	by reference
Int1	
S-4	
Recommended Attributes	limitObjectType, arcGeometryType, label, name, context and releasabilityType, beginLifespanVersion, endLifespanVersion, collection
Distinctions	Baseline, NormalBaseline, StraightBaseline, ArchipelagicBaseline, MouthOfRiversBaseline, ReefsBaseline, BaysBaseline, PortsBaseline
Remarks	
Permitted Primitives	L



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No.	Classification	Feature Catalogue Clause No.	DCEG ClauseNo.	Issue Type	Contents in Feature Catalogue	Contents in DCEG
29	F	8.6	4.2.8	Feature type name inconsistency	Mouth Of Rivers Baseline	Mouths of Rivers

Number	Feature type
8.6	Mouth Of Rivers Baseline

4.2.8 Mouths of Rivers

Item Type	Feature
Proposal Type	Addition
Domain	MLB
AlphaCode	MRVBLN
Name	Mouths of Rivers
Alias	MA_MouthsOfRiversBaseline
CamelCase	MouthsOfRiversBaseline
Use Type	Administrative
Definition	See the UNCLOS reference.
Reference	UNCLOS: Article 9
Definition Source	UNCLOS "CI_Citation"
Similarity to Source	by reference
Int1	
S-4	
Recommended Attributes	limitObjectType, arcGeometryType, label, name, context and releasabilityType, beginLifespanVersion, endLifespanVersion, collection
Distinctions	Baseline, NormalBaseline, StraightBaseline, ArchipelagicBaseline, LowTideElevationsBaseline, ReefsBaseline, BaysBaseline, PortsBaseline
Remarks	
Permitted Primitives	L



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No.	Classification	Feature Catalogue Clause No.	DCEG ClauseNo.	Issue Type	Contents in Feature Catalogue	Contents in DCEG
30	F	8.9	4.2.9	Feature type name inconsistency	Reef Baseline	Reefs

Number	Feature type
8.9	Reef Baseline

4.2.9 Reefs

Item Type	Feature
Proposal Type	Addition
Domain	MLB
AlphaCode	REFBLN
Name	Reefs
Alias	MA_ReefsBaseline
CamelCase	ReefsBaseline
Use Type	Administrative
Definition	See the UNCLOS reference.
Reference	UNCLOS: Article 6
Definition Source	UNCLOS "CI_Citation"
Similarity to Source	by reference
Int1	
S-4	
Recommended Attributes	limitObjectType, arcGeometryType, label, name, context and releasabilityType, beginLifespanVersion, endLifespanVersion, collection
Distinctions	Baseline, NormalBaseline, StraightBaseline, ArchipelagicBaseline, LowTideElevationsBaseline, MouthOfRiversBaseline, BaysBaseline, PortsBaseline
Remarks	
Permitted Primitives	L



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RESULTS OF THE CROSS CHECK OF FEATURE CATALOGUES

International Hydrographic Organization

1.The Cross check of S-1XX FC and its DCEG——S-121

No.	Classification	Feature Catalogue Clause No.	DCEG Clause No.	Issue Type	Contents in Feature Catalogue	Contents in DCEG
31	F	8.7	4.2.10	Feature type name inconsistency	Bay Closing Baseline	Bays

Number	Feature type
8.7	Bay Closing Baseline

4.2.10 Bays

Item Type	Feature
Proposal Type	Addition
Domain	MLB
AlphaCode	BAYBLN
Name	Bays
Alias	MA_BaysBaseline
CamelCase	BaysBaseline
Use Type	Administrative
Definition	See the UNCLOS reference.
Reference	UNCLOS: Article 10
Definition Source	UNCLOS "CI_Citation"
Similarity to Source	by reference
Int1	
S-4	
Recommended Attributes	limitObjectType, arcGeometryType, label, name, context and releasabilityType, beginLifespanVersion, endLifespanVersion, collection
Distinctions	Baseline, NormalBaseline, StraightBaseline, ArchipelagicBaseline, LowTideElevationsBaseline, MouthOfRiversBaseline, ReefsBaseline, PortsBaseline
Remarks	
Permitted Primitives	L



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1.The Cross check of S-1XX FC and its DCEG——S-121

N o.	Classification	Feature Catalogue Clause No.	DCEG ClauseNo.	Issue Type	Contents in Feature Catalogue	Contents in DCEG
32	F	8.29	4.3.7	Feature type name inconsistency	Roadstead	Roadsteads

Number	Feature type
8.29	Roadstead

4.3.7 Roadsteads

Item Type	Feature
Proposal Type	Addition
Domain	MLB
AlphaCode	RDSZNE
Name	Roadsteads
Alias	MA_Roadsteads
CamelCase	Roadsteads
Use Type	Administrative
Definition	See the UNCLOS reference.
Reference	UNCLOS: Article 12
Definition Source	UNCLOS "CI_Citation"
Similarity to Source	by reference
Int1	
S-4	
Recommended Attributes	zoneObjectType, jurisdictionDomainType, label, name, context and releasabilityType, beginLifespanVersion, endLifespanVersion, collection
Distinctions	ArchipelagicWaters, TerritorialSea, ContiguousZone, ExclusiveEconomicZone, ContinentalShelf, HighSeas, TheArea.
Remarks	
Permitted Primitives	A

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RESULTS OF THE CROSS CHECK OF FEATURE CATALOGUES

1. The Cross check of S-1XX FC and its DCEG——S-121

N O.	Classification	Feature Catalogue Clause No.	DCEG ClauseNo.	Issue Type	Contents in Feature Catalogue	Contents in DCEG
33	F	null	4.4.4	Missing feature type	null	Space

4.4.4 Space

Item Type:	Feature
Domain:	MLB
AlphaCode:	MSPACE
Name:	Space
Alias:	MA_Space
CamelCase:	Space
Use Type:	Geographic; Administrative
Definition:	An object that defines a volume which is logically delimited by instances of "Zone".
Reference:	
Definition Source:	
Similarity to Source:	
Int1:	
S-4:	
Recommended Attributes:	spaceObjectType, jurisdictionDomainType, referencePoint, volumeValue, label, name, context and releasabilityType, beginLifespanVersion, endLifespanVersion, collection
Distinguishing Features:	Location, Limit, Zone
Remarks:	A "Space" is an object of 2 dimensions with a height description located in 2 or 3 dimensional "Space". This is sometimes called 2 1/2 dimensions. A "Space" has the same geometry as a "Zone" with the attributes of vertical position. The vertical position may be explicit numerical attributes of height above a reference or a textual description.
Permitted Primitives:	P,L,A



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1.The Cross check of S-1XX FC and its DCEG——S-121

N o.	Classification	Feature Catalogue Clause No.	DCEG ClauseNo.	Issue Type	Contents in Feature Catalogue	Contents in DCEG
34	F	8.34	null	Missing feature type	Strait	null

Number	Feature type	Number	Attribute or Role Type	Type
8.34	Strait	3.2	<i>label</i>	S
		3.7	<i>collectionName</i>	S
		4.3	<i>featureName [m: {0, ∞}]</i>	C
		3.8	<i>context</i>	S
		3.9	<i>startLifespan</i>	S
		3.10	<i>endLifespan</i>	S
		3.6	<i>releasabilityType</i>	S



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1.The Cross check of S-1XX FC and its DCEG——S-122

International Hydrographic Organization

N o.	Classification	Feature Catalogue Clause No.	DCEG ClauseNo.	Issue Type	Contents in Feature Catalogue	Contents in DCEG
1	F	3.68	FeatureType	Data types and enumeration listed values are not described in DCEG	Value type of Source Type is enumeration	Null

Number	Name	Value type	Listed values	Value
3.68	Source type	enumeration	law or regulation	1
			official publication	2
			mariner report, confirmed	7
			mariner report, not confirmed	8
			industry publications and reports	9
			remotely sensed images	10
			photographs	11
			products issued by HO services	12
			news media	13
			traffic data	14

FeatureType

IHO Definition: FEATURE TYPE: Generalized feature type which carries all the common attributes.					
S-122 Geo Feature: FeatureType (Abstract)					
Primitives: None					
Real World	Paper Chart Symbol	# GDMS Symbol			
S-122 Attribute	S-57 Acronym	Allowable Value	Encoding	Type	Multiplicity
Fixed date range				C	0,1
Date end	(DATEND)			TD	0,1
Date start	(DATSTA)			TD	0,1
Periodic date range				C	0,*
Date end	(PEREND)	ISO 8601: 2004		TD	1,1
Date start	(PERSTA)	ISO 8601: 2004		TD	1,1
Feature name				C	0,*
Display name				(S) BC	0,1
Language		ISO 639-3		(S) TE	0,1
Name	(OBJNAM) (NOBJNM)			(S) TE	1,1
Source indication	(SORIND)			(S) TE	0,1
Source type				(S) TE	0,1
Source				(S) TE	0,1
Reported Date				TD	0,1
Country		ISO3166-1-alpha2		TE	0,1
Category of Authority	(CATAUT)			EN	0,1
Feature name				C	0,*
Display name				(S) BC	0,1
Language		ISO 639-3		(S) TE	0,1
Name	(OBJNAM) (NOBJNM)			(S) TE	1,1
Text Content				C	0,*
Category of Text		1: Abstract or summary 2: Extract 3: Full text		EN	0,1



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1. The Cross check of S-1XX FC and its DCEG——S-122

N o.	Classification	Feature Catalogue Clause No.	DCEG Clause No.	Issue Type	Contents in Feature Catalogue	Contents in DCEG
2	F	3.97	FeatureType	Online function Value type inconsistency	S100 CodeList	EN (should be replaced by CL)

Number	Name	Value type
3.97	Online function	S100_CodeList

Online Resource			C	0,1
Linkage		ISO 19115-1:2014	URL	1,1
Protocol		ISO 19115	(S) TE	0,1
Application Profile		ISO 19115	(S) TE	0,1
Name of Resource		ISO 19115	(S) TE	0,1
Online Description		ISO 19115 (adapted)	(S) TE	0,1
Online function		1: download 2: information 3: offline access 4: order 5: search 6: complete metadata 7: browse graphic 8: upload 9: email service 10: browsing 11: file access	EN	0,1
Protocol Request		ISO 19115	(S) TE	0,1
Source Indication	(SORIND)		(S) TE	0,1
Source Type		(all values)	EN	0,1
Source			(S) TE	0,1
Reported Date			TD	0,1
Country		ISO3166-1-alpha2		0,1
Category of Authority	(CATAUT)	(all values)	EN	0,1
Feature name			C	0,*
Display name			(S) BO	0,1
Language		ISO 639-3	(S) TE	0,1
Name	(OBJNAM) (NOBJNM)		(S) TE	1,1



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1. The Cross check of S-1XX FC and its DCEG——S-122

No.	Classification	Feature Catalogue Clause No.	DCEG Clause No.	Issue Type	Contents in Feature Catalogue	Contents in DCEG
3	R	5.24	FeatureType	Role name inconsistency	The RxN	theRXN

Number	Role
5.24	The RxN

<u>Information associations</u>							
Type	Association Name	Class	Role	Mult.	Class	Role	Mult.
Asso	additionalInformation	(any subtype of FeatureType)	informationProvidedFor	1..*	Nautical Information	providesInformation	0..*
Asso	associatedRxN	(any subtype of	appliesInLocation	1..*	Any subtype of AbstractRxN	theRXN	0..*



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1. The Cross check of S-1XX FC and its DCEG——S-122

No.	Classification	Feature Catalogue Clause No.	DCEG Clause No.	Issue Type	Contents in Feature Catalogue	Contents in DCEG
5	S	3.13	Marine Protected Area	Attributes name inconsistency	Category of restricted area	Category of restrictions

Marine Protected Area

IHO Definition: MARINE PROTECTED AREA: Any area of the intertidal or sub tidal terrain, together with its overlying water and associated flora, fauna, historical and cultural features, which has been reserved by law or other effective means to protect part or all of the enclosed environment. (IUCN – The World Conservation Union. 1998. Resolution 17.38 of the 17th General Assembly of the IUCN. Gland, Switzerland and Cambridge, UK.).

S-122 Geo Feature: MarineProtectedArea

Supertype: FeatureType

Primitives: Curve, Surface

Real World

Paper Chart Symbol

ECDIS Symbol

S-122 Attribute	S-57 Acronym	Allowable Value	Encoding	Type	Multiplicity
Category of Marine Protected Area		1: IUCN Category Ia		CL	1,1

		2: IUCN Category Ib 3: IUCN Category II 4: IUCN Category III 5: IUCN Category IV 6: IUCN Category V 7: IUCN Category VI		
Category of restrictions	(CATREA)	4: nature reserve 5: bird sanctuary 6: game reserve 7: seal sanctuary 10: historic wreck area 20: research area 22: fish sanctuary 23: ecological reserve 27: Environmentally Sensitive Sea Area (ESSA) 28: Particularly Sensitive Sea Area (PSSA) 31: Coral Sanctuary 32: Recreation area	EN	0,*



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1. The Cross check of S-1XX FC and its DCEG——S-122

N o.	Classification	Feature Catalogue Clause No.	DCEG ClauseNo.	Issue Type	Contents in Feature Catalogue	Contents in DCEG
6	F	8.2	Marine Protected Area	The number of information associations is inconsistent	Only has protectedAreaAuthority .	Contains protectedAreaAuthority\additionalInformation\associatedRxN\Permission Type (association class)\Text Association

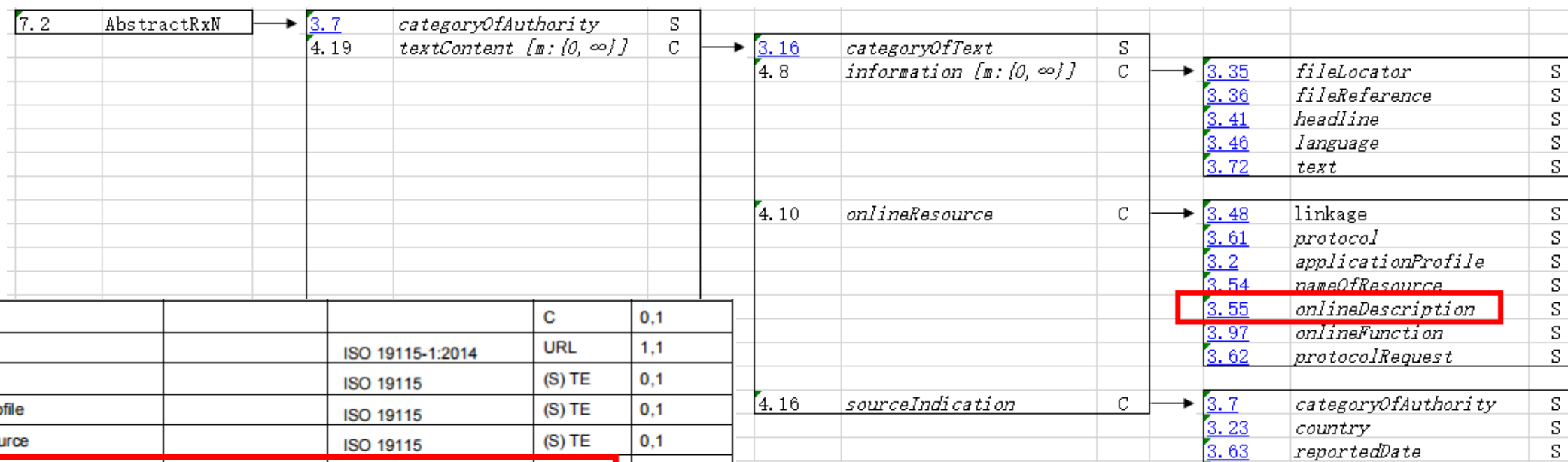
8.2	Marine Protected Area	→	3.11	categoryOfMarineProtectedArea	S		
			3.13	categoryOfRestrictedArea [m: {0, ∞}]	S		
			3.45	jurisdiction	S		
			3.64	restriction [m: {0, ∞}]	S		
			3.69	status [m: {0, ∞}]	S		
				association	association re	→	6.8
							protectedAreaAuthority
							responsibleAuthority

Information associations							
Type	Association Name	Class	Role	Mult.	Class	Role	Mult.
Association	protectedAreaAuthority	MarineProtectedArea	theMarineProtectedArea	0..*	Authority	responsibleAuthority	0..*
Asso (inherited)	additionalInformation	MarineProtectedArea	informationProvidedFor	1..*	NauticalInformation	providesInformation	0..*
Asso (inherited)	associatedRxN	MarineProtectedArea	appliesInLocation	1..*	Any subtype of AbstractRxN	theRxN	0..*
Asso (inherited)	PermissionType (association class)	MarineProtectedArea	vsILocation	0..*	Applicability	permission	0..*
Feature Associations							
Asso (inherited)	Text Association	(any subtype)	identifies	1..1	Text Placement	positions	0..1



1. The Cross check of S-1XX FC and its DCEG——S-122

No.	Classification	Feature Catalogue Clause No.	DCEG ClauseNo.	Issue Type	Contents in Feature Catalogue	Contents in DCEG
8	I	7.2, 7.4, 7.5, 7.9-3.55	AbstractRxN/Authority/Contact Details/Ship Report	The corresponding simple attribute name of Online resource is different.	onlineDescription	Description



Online resource		C	0,1
Linkage	ISO 19115-1:2014	URL	1,1
Protocol	ISO 19115	(S) TE	0,1
Application Profile	ISO 19115	(S) TE	0,1
Name of Resource	ISO 19115	(S) TE	0,1
Description	ISO 19115	(S) TE	0,1
Online function	1: download 2: information 3: offline access 4: order 5: search 6: complete metadata	EN	0,1



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1. The Cross check of S-1XX FC and its DCEG——S-122

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No.	Classification	Feature Catalogue Clause No.	DCEG ClauseNo.	Issue Type	Contents in Feature Catalogue	Contents in DCEG
9	I	7.2	AbstractRxN	The number of simple attributes included in the complex attribute "information" is inconsistent.	Contains fileLocator\fileReference\headline\language\text	Language, Text

Feature Catalogue Clause No.	DCEG ClauseNo.	Issue Type	Contents in Feature Catalogue	Contents in DCEG
7.2	AbstractRxN			
3.7	categoryOfAuthority	S		
4.19	textContent [m: {0, ∞}]	C		
3.16	categoryOfText	S		
4.8	information [m: {0, ∞}]	C	<ul style="list-style-type: none"> 3.35 fileLocator 3.36 fileReference 3.41 headline 3.46 language 3.72 text 	
4.10	onlineResource	C	<ul style="list-style-type: none"> 3.48 linkage 3.61 protocol 3.2 applicationProfile 3.54 nameOfResource 3.55 onlineDescription 3.97 onlineFunction 3.62 protocolRequest 	
4.16	sourceIndication	C	<ul style="list-style-type: none"> 3.7 categoryOfAuthority 3.23 country 3.63 reportedDate 3.67 source 3.68 sourceType 4.3 featureName [m: {0, ∞}] 	
4.6	graphic [m: {0, ∞}]	C	<ul style="list-style-type: none"> 3.89 pictorialRepresentation 3.58 pictureCaption 3.91 sourceDate 3.59 pictureInformation 4.1 bearingInformation 	
3.6	cardinalDirection	S		
3.34	distance	S		
3.90	sectorBearing [m: {0, 2}]	S		
4.8	information [m: {0, ∞}]	C	<ul style="list-style-type: none"> 3.35 fileLocator 3.36 fileReference 3.41 headline 3.46 language 3.72 text 	
4.11	orientation	C	<ul style="list-style-type: none"> 3.57 orientationUncertainty 3.86 orientationValue 	

Feature Catalogue Clause No.	DCEG ClauseNo.	Issue Type	Contents in Feature Catalogue	Contents in DCEG
Graphic				
Pictorial representation	(PICREP)			C 0,*
Picture Caption				TE 0,1
Source Date				S(DA) 0,1
Picture Information				TE 0,1
Bearing Information				C 0,1
Cardinal Direction			1: N 2: NNE 3: NE 4: ENE 5: E 6: ESE 7: SE 8: SSE 9: S 10: SSW 11: SW 12: WSW 13: W 14: WNW 15: NW 16: NNW	EN 0,1
Distance				RE 0,1
Information				C 0,*
Language			ISO 639-3	(S) TE 0,1
Text	(INFORM) (NINFORM)			(S) TE 1,1
Orientation	(ORIENT)			C 0,1



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1.The Cross check of S-1XX FC and its DCEG——S-122

No.	Classification	Feature Catalogue Clause No.	DCEG ClauseNo.	Issue Type	Contents in Feature Catalogue	Contents in DCEG
10	S	3.5	Contact Details	The Call sign type is not specified in DCEG	text	null

Number	Name	Value type
3.5	Call sign	text

Contact Details

IHO Definition: CONTACT DETAILS. Information on how to reach a person or organisation by postal, internet, telephone, telex and radio systems.					
S-122 Information Type: Contact Details					
Primitives: None					
<i>Real World</i>		<i>Paper Chart Symbol</i>		<i>ECDIS Symbol</i>	
S-122 Attribute	S-57 Acronym	Allowable Value	Encoding	Type	Multiplicity
Call name	(CALNAM)			S(TE)	0,1
Call sign	(CALSGN)				0,1
CommunicationChannel	(COMCHA)			TE	0..*



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No.	Classification	Feature Catalogue Clause No.	DCEG ClauseNo.	Issue Type	Contents in Feature Catalogue	Contents in DCEG
11	S	3.9	Contact Details	The serial number of the enumeration listed values are inconsistent.	alternate calling 2; preferred working3	alternate calling 3; preferred working2

Number	Name	Value type	Listed values	Value
3.9	Category of communication preference enumeration	enumeration	preferred calling	1
			alternate calling	2
			preferred working	3
			alternate working	4

Radiocommunications			C	0..*
Category Of Communication Preference (categoryOfCommPref)		1: preferred calling 2: preferred working 3: alternate calling 4: alternate working	E	0,1



1. The Cross check of S-1XX FC and its DCEG——S-122

N o.	Classification	Feature Catalogue Clause No.	DCEG ClauseNo.	Issue Type	Contents in Feature Catalogue	Contents in DCEG
12	I	7.5	Contact Details	Quantity inconsistency of simple attributes contained in complex attribute frequencyPair	null	Contact Instructions

7.5 Contact details		Frequency pair		C	0,1
3.4	<i>callName</i>	S	Frequency shore station transmits	I	0,*
3.5	<i>callSign</i>	S	Frequency shore station receives	I	0,*
3.9	<i>categoryOfCommPref</i>	S	Contact Instructions	S(TE)	0,*
3.20	<i>communicationChannel [m: {0, ∞}]</i>	S			
4.2	<i>contactAddress [m: {0, ∞}]</i>	C	3.31	<i>deliveryPoint [m: {0, ∞}]</i>	S
			3.19	<i>cityName</i>	S
			3.1	<i>administrativeDivision</i>	S
			3.23	<i>country</i>	S
			3.60	<i>postalCode</i>	S
3.22	<i>contactInstructions</i>	S			
4.5	<i>frequencyPair [m: {0, ∞}]</i>	C	3.39	<i>frequencyShoreStationRec</i>	S
			3.40	<i>frequencyShoreStationTra</i>	S
4.8	<i>information [m: {0, ∞}]</i>	C	3.35	<i>fileLocator</i>	S
			3.36	<i>fileReference</i>	S
			3.41	<i>headline</i>	S
			3.46	<i>language</i>	S
			3.72	<i>text</i>	S



1.The Cross check of S-1XX FC and its DCEG——S-122

N o.	Classification	Feature Catalogue Clause No.	DCEG ClauseNo.	Issue Type	Contents in Feature Catalogue	Contents in DCEG
13	I	3.75	Contact Details\Service Hours	Attribute type inconsistent of "timeOfDayEnd" .	time	C

Number	Name	Value type
3.75	Time of day end	time

Time intervals by day of week			C	1,*
Day of the Week		1: monday 2: tuesday 3: wednesday 4: thursday 5: friday 6: saturday 7: sunday	EN	0,7 (ordered)

dayOfWeekIsRange			BO	0,1
timeReference		1: local time 2: UTC	EN	1,1
timeOfDayStart			TI	0,* (ordered)
timeOfDayEnd			C	0,* (ordered)



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N o.	Classification	Feature Catalogue Clause No.	DCEG ClauseNo.	Issue Type	Contents in Feature Catalogue	Contents in DCEG
14	I	7.5	Contact Details	Missing attributes	null	Radiocommunications
15	I	7.5	Contact Details	Missing attributes	information	null

Number	Information type	Number	Attribute	Type
7.5	Contact details	3.4	callName	S
		3.5	callSign	S
		3.9	categoryOfCommPref	S
		3.20	communicationChannel [m:	S
		4.2	contactAddress [m: {0, ∞}]	C
		3.22	contactInstructions	S
		4.5	frequencyPair [m: {0, ∞}]	C
		4.8	information [m: {0, ∞}]	C
		3.50	mMSICode	S
		4.10	onlineResource [m: {0, ∞}]	C
		4.18	telecommunications [m: {0, ∞}]	C

Radiocommunications			C	0..*
Category Of Communication Preference (categoryOfCommPref)		1: preferred calling 2: preferred working 3: alternate calling 4: alternate working	E	0,1
Communication channel			TX	0,*
Contact instructions			TX	0,1
Frequency pair			C	0,*
Frequency shore station receives			IN	0,*
Frequency shore station transmits			IN	0,*
Time intervals by Day of Week (tmIntervalsByDoW)			C	0,*
Day of week		1: monday 2: tuesday 3: wednesday 4: thursday 5: friday 6: saturday 7: sunday	EN	0,7
Day of week is range			BO	0,1
Time reference		1: localTime 2: UTC	EN	1,1
Time of day start			TI	0,*
Time of day end			TI	0,*



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No.	Classification	Feature Catalogue Clause No.	DCEG Clause No.	Issue Type	Contents in Feature Catalogue	Contents in DCEG
16	S	3.95	Service Hours	Attribute type inconsistent of "Category of schedule" .	S100 CodeList	EN (should be replaced by CL)

Number	Name	Value type	Listed values	Value
3.95	Category of schedule	S100_CodeList	normal operation closure unmanned operation	1 2 3

		D. ENCL		
Schedule by day of week			C	1,*
Category of schedule		1: normal operation 2: closure 3: unmanned operation	EN	1,1
Time intervals by day of week			C	1,*
Day of the Week		1: monday 2: tuesday 3: wednesday 4: thursday 5: friday 6: saturday 7: sunday	EN	0,7 (ordered)



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No.	Classification	Feature Catalogue Clause No.	DCEG ClauseNo.	Issue Type	Contents in Feature Catalogue	Contents in DCEG
17	I	7.7	Non Standard Working Day	Information type name inconsistency	Non-standard working day	Non Standard Working Day
18	S	3.28	Non Standard Working Day	Attributes name inconsistency	Date fixed	Fixed Date
19	S	3.30	Non Standard Working Day	Attributes name inconsistency	Date variable	Variable Date

Number	Information type	Number	Attribute	Type	Number	Attribute	Type
7.7	Non-standard working day	3.28	dateFixed [m: {0, ∞}]	S			
		3.30	dateVariable [m: {0, ∞}]	S			
		4.8	information [m: {0, ∞}]	C	3.35	fileLocator	S
					3.36	fileReference	S
					3.41	headline	S
					3.46	language	S
					3.72	text	S

Non Standard Working Day

IHO Definition: NON STANDARD WORKING DAY Days when many services are not available. Often days of festivity or recreation when normal working hours are limited, esp. a national or religious festival, etc.

S-122 Information Type: Non Standard Working Day

Primitives: None

Real World

Paper Chart Symbol

ECDIS Symbol

S-122 Attribute	S-57 Acronym	Allowable Value	Encoding	Type	Multiplicity
Fixed Date				TD	0,*
Variable Date				S(TE)	0,*
Information				C	0,*
Language		ISO 639-3		(S) TE	0,1
Text	(INFORM) (NINFOM)			(S) TE	0,1
File Reference	(TXTDSC) (NXTDSC)			S (TE)	0,1



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N o.	Classification	Feature Catalogue Clause No.	DCEG ClauseNo.	Issue Type	Contents in Feature Catalogue	Contents in DCEG
20	S	3.8	Applicability	Category of Cargo Attributes name inconsistency	4、 category of cargo liquid	4 : liquid
21	S	3.10	Applicability	Category of Dangerous or Hazardous Cargo Attributes name inconsistency	6、 Class 1: Division 1.6	6: IMDG Code Class 1 Div. 1.6
22	S	3.73	Applicability	Attribute type inconsistent of "Thickness of ice capability" .	text	IN

Number	Name	Value type	Listed values	Value
3.8	Category of cargo	enumeration	bulk	1
			container	2
			general	3
			category of cargo liquid	4
			passenger	5
			livestock	6
			dangerous or hazardous	7

Number	Name	Value type	Listed values	Value
3.10	Category of dangerous or hazardous	enumeration	IMDG Code Class 1 Div. 1.1	
			IMDG Code Class 1 Div. 1.2	
			IMDG Code Class 1 Div. 1.3	
			IMDG Code Class 1 Div. 1.4	
			IMDG Code Class 1 Div. 1.5	
			Class 1: Division 1.6	
			IMDG Code Class 2 Div. 2.1	
			IMDG Code Class 2 Div. 2.2	
			IMDG Code Class 2 Div. 2.3	
			IMDG Code Class 3	1
			IMDG Code Class 4 Div. 4.1	1
			IMDG Code Class 4 Div. 4.2	1
			IMDG Code Class 4 Div. 4.3	1
			IMDG Code Class 5 Div. 5.1	
			IMDG Code Class 5 Div. 5.2	
			IMDG Code Class 6 Div. 6.1	
			IMDG Code Class 6. Div. 6.2	17
			IMDG Code Class 7	18
			IMDG Code Class 8	19
			IMDG Code Class 9	20
3.73	Thickness of ice capability	text	Harmful Substances in packaged form	21

Category of Cargo (CATCGO)		1 : bulk 2 : container 3 : general 4 : liquid 5 : passenger 6 : livestock 7 : dangerous or hazardous	EN	0,*
Category of Dangerous or Hazardous Cargo (CATDHC)		1: IMDG Code Class 1 Div. 1.1 2: IMDG Code Class 1 Div. 1.2 3: IMDG Code Class 1 Div. 1.3 4: IMDG Code Class 1 Div. 1.4 5: IMDG Code Class 1 Div. 1.5 6: IMDG Code Class 1 Div. 1.6 7: IMDG Code Class 2.1 8: IMDG Code Class 2.2 9: IMDG Code Class 2.3 10: IMDG Code Class 3	EN	0,*
Thickness of Ice Capability (ICECAP)			IN	0,1



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RESULTS OF THE CROSS CHECK OF FEATURE CATALOGUES

International Hydrographic Organization

1. The Cross check of S-1XX FC and its DCEG—S-123

No.	Classification	Feature Catalogue Clause No.	DCEG Clause No.	Issue Type	Contents in Feature Catalogue	Contents in DCEG
1	F	8.17	4.4	Feature type name inconsistency	Quality of NonBathymetric Data	Quality of non-bathymetric data

Number	Feature type
8.17	Quality of NonBathymetric Data

4.4 Quality of non-bathymetric data

IHO Definition: QUALITY OF NON-BATHYMETRIC DATA. An area within which the best estimate of the overall uncertainty of the data is uniform. The overall uncertainty takes into account for example the source accuracy, chart scale, digitising accuracy etc. (Adapted from S-57 Edition 3.1, Appendix A – Chapter 1, Page 1.208, November 2000).
S-123 Metadata Feature: Quality of non-bathymetric data (M_ACCY)
Primitives: Surface



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1. The Cross check of S-1XX FC and its DCEG——S-123

No.	Classification	Feature Catalogue Clause No.	DCEG Clause No.	Issue Type	Contents in Feature Catalogue	Contents in DCEG
2	F	3.19	4.4	enumeration Listed values' name inconsistency	extreme event	1 : event

Number	Name	Value type	Listed values	Value
3.19	Category of temporal variation	enumeration	extreme event	1
			likely to change	2
			unlikely to change	4
			unassessed	5

S-123 Attribute	S-57 Acronym	Allowable Value	Encoding	Type	Multiplicity
Information				C	0,*
File locator				TE	0,1
File reference				TE	0,1
Headline				TE	0,1
language		ISO 639-3		TE	0,1
Text				TE	0,1
Category of temporal variation		1 : event 2 : likely to change 4 : unlikely to change 5 : unassessed		EN	1,1
Data assessment		1 : assessed 2 : oceanic 3 : unassessed		EN	1,1



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1. The Cross check of S-1XX FC and its DCEG—S-123

N o.	Classification	Feature Catalogue Clause No.	DCEG Clause No.	Issue Type	Contents in Feature Catalogue	Contents in DCEG
3	F	3.26	5.1	Value type of country had not been specified.	text	null

Number	Name	Value type
3.26	Country	text

Source Indication	(SORIND)		(S) TE	0,1
Source Type		(all values)	EN	0,1
Source			(S)TE	0,1
Reported Date			TD	0,1
Country		ISO3166-1-alpha2		0,1
Category of Authority	(CATAUT)	(all values)	EN	0,1
Feature name			C	0,*
Display name			(S) BO	0,1
Language		ISO 639-3	(S) TE	0,1
Name	(OBJNAM) (NOBJNM)		(S) TE	1,1



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1.The Cross check of S-1XX FC and its DCEG——S-123

No.	Classification	Feature Catalogue Clause No.	DCEG Clause No.	Issue Type	Contents in Feature Catalogue	Contents in DCEG
4	F	3.114	5.1	Online function Value type inconsistency	S100 CodeList	EN

Number	Name	Value type
3.114	Online function	S100_CodeList

Online Resource			C	0,1
Linkage		ISO 19115-1:2014	URL	1,1
Protocol		ISO 19115	(S) TE	0,1
Application Profile		ISO 19115	(S) TE	0,1
Name of Resource		ISO 19115	(S) TE	0,1
Online Description		ISO 19115 (adapted)	(S) TE	0,1
Online function		1: download 2: information 3: offline access 4: order 5: search 6: complete metadata 7: browse graphic 8: upload 9: email service 10: browsing 11: file access	EN	0,1



1.The Cross check of S-1XX FC and its DCEG——S-123

No.	Classification	Feature Catalogue Clause No.	DCEG Clause No.	Issue Type	Contents in Feature Catalogue	Contents in DCEG
5	F	8.4	5.3	Contained attribute values are inconsistent.	communicationChannel	null

Number	Feature type	Number	Attribute or Role Type	Type
8.4	Coastguard station	3.23	communicationChannel [m: {0, ∞}]	S
		3.51	isMRCC	S
		3.79	status [m: {0, ∞}]	S
			association	association re
			association	association re
			association	association re

5.3 Coastguard station

IHO Definition: COASTGUARD STATION: A station at which a visual/radio/radar marine watch is kept either continuously or at certain times only. (IHO Dictionary – S-32).					
S-123 Geo Feature: CoastguardStation (CGUSTA)					
Supertype: FeatureType					
Primitives: Point, Surface					
<i>Real World</i>		<i>Paper Chart Symbol</i>		<i>ECDIS Symbol</i>	
S-123 Attribute	S-57 Acronym	Allowable Value	Encoding	Type	Multiplicity
Status	(STATUS)	1 : permanent 2 : occasional 4 : not in use 5 : periodic/intermittent 7 : temporary 16 : watched 17 : un-watched		EN	0,*
Is MRCC				BO	0,1
Inherited attributes					



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RESULTS OF THE CROSS CHECK OF FEATURE CATALOGUES

International Hydrographic Organization

1. The Cross check of S-1XX FC and its DCEG——S-123

No.	Classification	Feature Catalogue Clause No.	DCEG Clause No.	Issue Type	Contents in Feature Catalogue	Contents in DCEG
6	F	3.108/3.5	5.8/5.9/5.10/5.11/8.4	Inconsistent value types	text	TX (should be TE?)

Number	Name	Value type
3.108	Transmitter identification character	text

5.8 NAVTEX station area

IHO Definition: NAVTEX STATION AREA: The geographic areas in which radio stations are broadcast navigation and weather warnings.

S-123 Geo Feature: NavtexStationArea (NAVTEX)

Supertype: FeatureType

Primitives: Surface

Real World	Paper Chart Symbol	ECDIS Symbol
.		

S-123 Attribute	S-57 Acronym	Allowable Encoding Value	Type
txIdentChar			TX

Number	Name	Value type
3.5	Call sign	text

5.9 Radio service area

IHO Definition: RADIO SERVICE AREA: The area where a radio service can be obtained and the characteristics of the radio transmission.

S-123 Geo Feature: RadioServiceArea (RDOSVC)

Supertype: FeatureType

Primitives: Surface, None

Real World	Paper Chart Symbol	ECDIS Symbol
.		

S-123 Attribute	S-57 Acronym	Allowable Value	Encoding	Type	Multiplicity
Call sign				TX	0,1
Category of broadcast communication		1 : commercial 2 : non-commercial 3 : public		EN	1,1

5.10 Radio station

IHO Definition: RADIO STATION: A place equipped to transmit radio waves.

S-123 Geo Feature: RadioStation (RDOSTA)

Supertype: FeatureType

Primitives: Point

Real World	Paper Chart Symbol	ECDIS Symbol
.		

S-123 Attribute	S-57 Acronym	Allowable Encoding Value	Type	Multiplicity
Call sign			TX	0,1



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RESULTS OF THE CROSS CHECK OF FEATURE CATALOGUES

International Hydrographic Organization

1. The Cross check of S-1XX FC and its DCEG——S-123

No.	Classification	Feature Catalogue Clause No.	DCEG Clause No.	Issue Type	Contents in Feature Catalogue	Contents in DCEG
7	F	8.13	5.11	Feature type name inconsistency	Weather forecast and warning area	Weather forecast / warning area

Number	Feature type
8.13	Weather forecast and warning area

5.11 Weather forecast / warning area

IHO Definition: WEATHER FORECAST / WARNING AREA: An area for which weather forecasts and warnings are provided for specified periods.

S-123 Geo Feature: WeatherForecastWarningArea (WETFCA)

Supertype: FeatureType

Primitives:Surface

Real World

Paper Chart Symbol

ECDIS Symbol



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RESULTS OF THE CROSS CHECK OF FEATURE CATALOGUES

1. The Cross check of S-1XX FC and its DCEG——S-123

International Hydrographic Organization

No.	Classification	Feature Catalogue Clause No.	DCEG Clause No.	Issue Type	Contents in Feature Catalogue	Contents in DCEG
8	F	8.7	6.2	Association types of CompositionThe are inconsistent.	FuzzyAreaAggregate	Forecast areaaggregate/ Radio service area aggregate

Number	Feature type	Number	Attribute or Role	Type	Number	Association	Role Ref	Number	Feature or Informa	Type
8.7	Indeterminate zone	3.50	informationConfidence	S	6.14	fuzzyZoneAggregation	componentOf	8.2	FuzzyAreaAggregate	F

Feature associations							
compositi on	fuzzyZoneAggregatio n	(this feature)	consistsOf	1..1	Forecast area aggregate, Radio service area aggregate	compo nentOf	1..*
INT 1 Reference: none							
Remarks: IndeterminateZone does not inherit an association to TextPlacement							
Distinction:							



1.The Cross check of S-1XX FC and its DCEG——S-123

No.	Classification	Feature Catalogue Clause No.	DCEG Clause No.	Issue Type	Contents in Feature Catalogue	Contents in DCEG
9	F	8.18	7.1	Association types of asso are inconsistent.	FeatureType	All Geo Features

7.1 Text Placement

IHO Definition: TEXT PLACEMENT. The Text Placement feature is used in association with the Feature Name attribute or a light description to optimise text positioning in ECDIS..							
S-123 Cartographic Feature: Text Placement							
Primitives: Point							
<i>Real World</i>		<i>Paper Chart Symbol</i>		<i>ECDIS Symbol</i>			
S-123 Attribute	S-57 Acronym	Allowable Value	Encoding	Type	Multiplicity		
Flip bearing				RE	0,1		
Scale minimum				IN	0,1		
Text justification		1 : left 2 : centred 3 : right		EN	1,1		
Text				TE	0,1		
Text type		1: feature name		EN	0,1		
Feature associations							
Type	Association Name	Class	Role	Mult.	Class	Role	Mult.
Asso	Text Association	Text Placement	positions	0,1	All Features	Geo identifies	1,1

Number	Feature type	Number	Attribute or Role	Type	Type
8.18	Text Placement	3.43	flipBearing	S	
		3.75	scaleMinimum	S	
		3.116	textJustification	S	
		3.82	text	S	
		3.117	textType	S	
			association	association re	
		6.16	textAssociation	identifies	
		8.1	FeatureType		F



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RESULTS OF THE CROSS CHECK OF FEATURE CATALOGUES

1.The Cross check of S-1XX FC and its DCEG——S-123

No.	Classification	Feature Catalogue Clause No.	DCEG Clause No.	Issue Type	Contents in Feature Catalogue	Contents in DCEG
10	I	7.2-3.65 7.4-3.65	8.2 8.3	Attribute name of onlineResource is inconsistency (Full-text Problem)	onlineDescription	Description

Number	Information type	Number	Attribute	Type	Number	Attribute	Type	Number	Attribute	Type	
7.2	AbstractRxN	→ 3.7	categoryOfAuthority	S							
		4.20	textContent [m: {0, ∞}]	C	→ 3.20	categoryOfText	S				
					4.9	information [m: {0, ∞}]	C	→ 3.40	fileLocator	S	
								3.41	fileReference	S	
								3.47	headline	S	
								3.52	language	S	
								3.82	text	S	
Online resource				C	0,1						
Linkage			ISO 19115-1:2014	URL	1,1						
Protocol			ISO 19115	(S) TE	0,1	4.10	onlineResource [m: {0, ∞}]	C	→ 3.55	linkage	S
Application Profile			ISO 19115	(S) TE	0,1				3.71	protocol	S
Name of Resource			ISO 19115	(S) TE	0,1				3.2	applicationProfile	S
Description			ISO 19115	(S) TE	0,1				3.62	nameOfResource	S
Online function			1: download 2: information 3: offline access 4: order 5: search 6: complete metadata 7: browse graphic 8: upload 9: email service 10: browsing 11: file access	EN	0,1				3.65	onlineDescription	S
									3.114	onlineFunction	S
									3.72	protocolRequest	S
						4.17	sourceIndication [m: {0, ∞}]	C	→ 3.7	categoryOfAuthority	S
									3.26	country	S
									3.73	reportedDate	S
									3.77	source	S
									3.78	sourceType	S
									4.4	featureName [m: {0, ∞}]	C



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RESULTS OF THE CROSS CHECK OF FEATURE CATALOGUES

1. The Cross check of S-1XX FC

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Number	Information type	No.	Classification	Feature Catalogue Clause No.	DCEG Clause No.	Issue Type	
						Number	Attribute
7.2	AbstractRxN					3.7	categoryOfAuthority
						4.20	textContent [m: {0, ∞}]
						4.9	information [m: {0, ∞}]
						4.10	onlineResource [m: {0, ∞}]
						4.17	sourceIndication [m: {0, ∞}]
						4.7	graphic [m: {0, ∞}]
						3.102	pictorialRepresentation [m: {1, ∞}]
						3.68	pictureCaption
						3.105	sourceDate
						3.69	pictureInformation
						4.1	bearingInformation

Bearing Information			C	0,1
Cardinal Direction		1: N 2: NNE 3: NE 4: ENE 5: E 6: ESE 7: SE 8: SSE 9: S 10: SSW 11: SW 12: WSW 13: W 14: WNW	EN	0,1

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62 Data Classification and Encoding Guide

		15: NW 16: NNW		
Distance			RE	0,1
Information			C	0,*
Language		ISO 639-3	(S) TE	0,1
Text	(INFORM) (NINFORM)		(S) TE	1,1
Orientation	(ORIENT)		C	0,1
Orientation Uncertainty			RE	0,1
Orientation Value			R	
3.6	cardinalDirection		S	
3.37	distance		S	
3.103	sectorBearing [m: {0, 2}]		S	
4.9	information [m: {0, ∞}]		C	
	3.40	fileLocator		S
	3.41	fileReference		S
	3.47	headline		S
	3.52	language		S
	3.82	text		S



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RESULTS OF THE CROSS CHECK OF FEATURE CATALOGUES

International Hydrographic Organization

1. The Cross check of S-1XX FC and its DCEG——S-123

N o.	Classification	Feature Catalogue Clause No.	DCEG ClauseNo.	Issue Type	Contents in Feature Catalogue	Contents in DCEG
12	I	7.5-4.19	8.4	Simple attributes included in the same complex attribute are inconsistent.	Telecommunications includes categoryOfCommPref and tmIntervalsByDoW.	Telecommunications do not contains this two simple attributes.
13	I	7.5-3.10	8.4	The attribute type is not specified	enumeration	(categoryOfCommPref) The attribute type is not specified.

7.5	Contact details					
		3.4	<i>callName</i>	S		
		3.5	<i>callSign</i>	S		
		3.23	<i>communicationChannell [m: {0, ∞}]</i>	S		
		4.2	<i>contactAddress [m: {0, ∞}]</i>	C	3.34	<i>deliveryPoint [m: {0, ∞}]</i> S
					3.22	<i>cityName</i> S
					3.1	<i>administrativeDivision</i> S
					3.26	<i>country</i> S
					3.70	<i>postalCode</i> S
		3.25	<i>contactInstructions</i>	S		
		4.6	<i>frequencyPair [m: {0, ∞}]</i>	C	3.44	<i>frequencyShoreStationReceives [m: {0, ∞}</i> S
					3.45	<i>frequencyShoreStationTransmits [m: {0, ∞}</i> S
		4.9	<i>information [m: {0, ∞}]</i>	C	3.40	<i>fileLocator</i> S
					3.41	<i>fileReference</i> S
					3.47	<i>headline</i> S
					3.52	<i>language</i> S
					3.82	<i>text</i> S
		3.57	<i>mMUSICode</i>	S		
		4.10	<i>onlineResource [m: {0, ∞}]</i>	C	3.55	<i>linkage</i> S
					3.71	<i>protocol</i> S
					3.2	<i>applicationProfile</i> S
					3.62	<i>nameOfResource</i> S
					3.65	<i>onlineDescription</i> S
					3.114	<i>onlineFunction</i> S
					3.72	<i>protocolRequest</i> S
		4.19	<i>telecommunications [m: {0, ∞}]</i>	C	3.10	<i>categoryOfCommPref</i> S
					3.80	<i>telecommunicationIdentifier</i> S
					3.81	<i>telcomCarrier</i> S
					3.25	<i>contactInstructions</i> S
					3.115	<i>telecommunicationService [m: {0, ∞}]</i> S
					4.21	<i>tmIntervalsByDoW [m: {0, ∞}]</i> C
		4.14	<i>radiocommunications [m: {0, ∞}]</i>	C	3.10	<i>categoryOfCommPref</i> S
					3.15	<i>categoryOfMaritimeBroadcast [m: {0, ∞}]</i> S

Category of communication preference (categoryOfCommPref)		1: preferred calling 2: alternate calling 3: preferred working 4: alternate working	EN	0,1
Contact Instructions			S(TE)	0,1
Contact Address			C	0,*
Delivery Point			S(TE)	0,*
City Name			S(TE)	0,1
Administrative Division			S(TE)	0,1
Country			S(TE)	0,1
Postal Code			S(TE)	0,1
Frequency pair			C	0,1
Frequency shore station transmits			I	0,*
Frequency shore station receives			I	0,*
Online Resource			C	0,*
Linkage	ISO 19115:2014		(SURL)	1,1
Protocol	ISO 19115:2014		S(TE)	0,1
Application Profile	ISO 19115:2014		S(TE)	0,1
Name of Resource	ISO 19115:2014		S(TE)	0,1
Description	ISO 19115:2014		S(TE)	0,1
Online function	ISO 19115:2014		E(CL)	0,1
Protocol Request	ISO 19115:2014		S(TE)	0,1
Telecommunications			C	0,*
Telecommunication identifier			S(TE)	1,1
Telecommunication Carrier (telcomCarrier)			S(TE)	0,1
Contact Instructions			S(TE)	0,1
Telecommunication Service			E(CL)	0,*
RadioCommunications			C	0,*
Category Of Communication Preference (categoryOfCommPref)				
Category of radio methods		1: Low Frequency (LF) voice traffic.	EN	0,*



1. The Cross check of S-1XX FC and its DCEG——S-123

N o.	Classification	Feature Catalogue Clause No.	DCEG Clause No.	Issue Type	Contents in Feature Catalogue	Contents in DCEG
14	I	7.5-4.14	8.4	Attributes inconsistent.	4.14 contains 3.15, 4.3, 3.104, 3.76, 4.22, 4.23, 3.87, 3.107	null

Radio Communications			C	0..*
Category Of Communication Preference (categoryOfCommPref)				
Category of radio methods		1: Low Frequency (LF) voice traffic 2: Medium Frequency (MF) voice traffic	EN	0..*
Communication channel			TX	0..*
Contact instructions			TX	0,1
Frequency pair			C	0..*
Frequency shore station receives			IN	0..*
Frequency shore station transmits			IN	0..*
Time intervals by Day of Week (tmIntervalsByDoW)			C	0..*
Day of week		1: monday 2: tuesday 3: wednesday 4: thursday 5: friday 6: saturday 7: sunday	EN	0,7
Day of week is range			BO	0,1
Time reference		1: localTime 2: UTC	EN	1,1
Time of day start			TI	0..*

4.14	radiocommunications [m: {0, ∞}]	C		
3.10	categoryOfCommPref	S		
3.15	categoryOfMaritimeBroadcast [m: {0, ∞}]	S		
3.17	categoryOfRadioMethods [m: {0, ∞}]	S		
3.23	communicationChannel [m: {0, ∞}]	S		
3.25	contactInstructions	S		
4.3	facsimileDrumSpeed	C		
4.6	frequencyPair [m: {0, ∞}]	C		
3.104	selectiveCallNumber	S		
3.76	signalFrequency	S		
4.22	timeOfObservation	C		
4.23	timesOfTransmission	C		
4.21	tmIntervalsByDoW [m: {0, ∞}]	C		
3.87	transmissionContent	S		
3.107	transmissionRegularity [m: {0, ∞}]	S		



1. The Cross check of S-1XX FC and its DCEG——S-123

No.	Classification	Feature Catalogue Clause No.	DCEG Clause No.	Issue Type	Contents in Feature Catalogue	Contents in DCEG
15	I	7.7	8.6	Feature type name inconsistency	Non-standard working day	Non Standard Working Day
16	I	7.7-3.31, 3.33	8.6	Attribute name inconsistency	dateFixed dateVariable	Fixed Date Variable Date

Number	Information type	Number	Attribute	Type	Number	Attribute	Type
7.7	Non-standard working day	3.31	dateFixed [m: {0, ∞}]	S			
		3.33	dateVariable [m: {0, ∞}]	S			
		4.9	information [m: {0, ∞}]	C	3.40	fileLocator	S
					3.41	fileReference	S
					3.47	headline	S
					3.52	language	S
					3.82	text	S

8.6 Non Standard Working Day

IHO Definition: **NON STANDARD WORKING DAY** Days when many services are not available. Often days of festivity or recreation when normal working hours are limited, esp. a national or religious festival, etc.

S-123 Information Type Non Standard Working Day

Primitives: None

Real World	Paper Chart Symbol	ECDIS Symbol
------------	--------------------	--------------

S-123 Attribute	S-57 Acronym	Allowable Value	Encoding	Type	Multiplicity
Fixed Date				TD	0,*
Variable Date				S(TE)	0,*
Information				C	0,*



1. The Cross check of S-1XX FC and its DCEG——S-128

No.	Classification	Feature Catalogue Clause No.	DCEG Clause No.	Issue Type	Contents in Feature Catalogue	Contents in DCEG
1	A	6.3	5.3	Inconsistent role name	theCatalogueElements	The Catalogue of Element

Number	Association	Number	Role reference
6.3	Product Package	5.3	elementContainer
		5.4	theCatalogueElements

5.3 Product Package

IHO Definition: Package of the various substances which are transported, stored or exploited.

Remarks:

- No remarks.

Role Type	Role	Associated With	Multiplicity
Association	The Catalogue of Element	Catalogue Elements	1, *
	Element Container	Catalogue of Nautical Product	1, 1



1.The Cross check of S-1XX FC and its DCEG——S-128

No.	Classification	Feature Catalogue Clause No.	DCEG Clause No.	Issue Type	Contents in Feature Catalogue	Contents in DCEG
2	C	4.17	8.17	Inconsistent attributename	issn	ISSN

Number	Complex attribute	Number	Attribute	Type
4.17	Product Specification	3.38	date	S
		3.9	issn	S
		3.62	name	S
		3.100	version	S

8.17 Product Specification

IHO Definition: Product standard name referenced when manufacturing nautical products.
Sub-attributes:
Date (see clause 7.38)
ISSN (see clause 7.9)

Name (see clause 7.62)
Version (see clause 7.100)
Remarks:
 • No remarks.



1. The Cross check of S-1XX FC and its DCEG—S-128

No.	Classification	Feature Catalogue Clause No.	DCEG Clause No.	Issue Type	Contents in Feature Catalogue	Contents in DCEG
3	F	8.5	3.5	Inconsistent association	Role only contains boundary	Role contains boundary and insert

Number	Feature type	Number	Attribute or Role	Type	Number	Association	Role Ref	Number	Feature or Information	Type
8.5	Paper Chart	3.46	frameDimension	S						
		3.58	mainPanel	S						
		3.97	typeOfPaper	S						
		4.15	printInformation	C						
		4.18	referenceToNM	C						
		3.50	ISBN	S						
			association	associa	6.4	InsertAssociation	boundary	8.5	PaperChart	F
								8.5	PaperChart [m: {0, ∞}]	F

Feature/Information associations							
Type	Association Name	Association Ends					
		Class	Role	Mult	Class	Role	Mult
Asso	Insert Association	PaperChart	boundary	0, 1	PaperChart	boundary	0, 1

Asso	Insert Association	PaperChart	boundary	0, 1	PaperChart	insert	0, *
------	--------------------	------------	----------	------	------------	--------	------



1. The Cross check of S-1XX FC and its DCEG——S-130

No.	Classification	Feature Catalogue Clause No.	DCEG Clause No.	Issue Type	Contents in Feature Catalogue	Contents in DCEG
1	F	8.1	3.1	Inconsistent rolename	consistsOf	componentOf

Number	Feature type	Number	Attribute or Role Type	Type	Number	Association	Role Ref
8.1	Global Sea Area	3.6	numericalIdentifier	S			
		3.12	version	S			
		4.1	fixedDateRange	C			
		3.4	maximumDisplayScale	S			
		3.5	minimumDisplayScale	S			
		4.3	sourceIndication [m: {0, ∞}]	C			
			association	associa	6.1	AdditionalInformation	providesInformation
			association	associa	6.2	Aggregation	consistsOf

Feature/Information associations							
Type	Association Name	Association Ends					
		Class	Role	Mult	Class	Role	Mult
Asso	AdditionalInformation	GlobalSeaArea	informationProvidedFor	1, *	AdditionalSpatialInformation	providesInformation	0, *
Aggr	Aggregation	GlobalSeaArea	consistsOf	0, *	GlobalSeaArea	componentOf	0, *



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RESULTS OF THE CROSS CHECK OF FEATURE CATALOGUES

1. The Cross check of S-1XX FC and its DCEG——S-131

No.	Classification	Feature Catalogue Clause No.	DCEG Clause No.	Issue Type	Contents in Feature Catalogue	Contents in DCEG
1	S	3.7	17.7	Enumeration value inconsistency	Icebreaking Ship	null

Number	Name	Value type	Listed values	Value
3.7	Berthing Assistance	enumeration	Berthing Information	1
			Line Personnel	2
			Mooring Boat	3
			Mule	4
			Tugboat	5
			Icebreaking Ship	6

17.7 Berthing Assistance

IHO Definition: Classification of assistance for mooring or anchoring operations.

1) Berthing Information

IHO Definition: Information about assistance or arrangements for a service related to berthing operations.

2) Line Personnel

IHO Definition: Personnel specializing in the mooring and unmooring of vessels.

3) Mooring Boat

IHO Definition: A boat which assists the securement of a vessel to a berth or mooring with ropes or anchor.

4) Mule

IHO Definition: A locomotive for moving vessels.

5) Tugboat

IHO Definition: A powerful small boat designed to pull or push larger ships or powerless barges.

Remarks:

- No remarks.



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N o.	Classification	Feature Catalogue Clause No.	DCEG Clause No.	Issue Type	Contents in Feature Catalogue	Contents in DCEG
2	S	3.125	17.124	Enumeration value inconsistency	Metres	null

Number	Name	Value type	Listed values	Value
3.125	Vessels Characteristic	enumeration	Metres	1
			Metric Ton	3
			Ton	4
			Short Ton	5
			Gross Ton	6
			Net Ton	7
			Suez Canal Net Tonnage	9

17.124 Vessels Characteristics Unit

IHO Definition: The unit used for vessel characteristics attribute.

3) Metric Ton

IHO Definition: The tonne or metric ton (U.S.), often redundantly referred to as a metric tonne, is a unit of mass equal to 1,000 kg (2,205 lb) or approximately the mass of one cubic metre of water at four degrees Celsius. It is sometimes abbreviated as mt in the United States, but this conflicts with other SI symbols. The tonne is not a unit in the International System of Units (SI), but is accepted for use with the SI. In SI units and prefixes, the tonne is a megagram (Mg). The Imperial and US customary units comparable to the tonne are both spelled ton in English, though they differ in mass. Pronunciation of tonne (the word used in the UK) and ton is usually identical, but is not too confusing unless accuracy is important as the tonne and UK long ton differ by only 1.6.

4) Ton

IHO Definition: Long ton (weight ton or imperial ton) is the name for the unit called the "ton" in the avoirdupois or Imperial system of measurements, as used in the United Kingdom and several other Commonwealth countries. It has been mostly replaced by the tonne, and in the United States by the **short ton**. One long ton is equal to 2,240 pounds (1,016 kg) or 35 cubic feet (0.9911 m) of salt water with a density of 64 lb/ft (1.025 g/ml). It has some limited use in the United States, most commonly in measuring the displacement of ships, and was the unit prescribed for warships by the Washington Naval Treaty for example battleships were limited to a mass of 35,000 long tons (36,000 t; 39,000 ST).

5) Short Ton

IHO Definition: A unit of weight equal to 2,000 pounds (907.18474 kg). In the United States it is often called simply ton without distinguishing it from the metric ton (tonne, 1,000 kilograms) or the long ton (2,240 pounds / 1,016.0469088 kilograms); rather, the other two are specifically noted. There are, however, some US applications for which unspecified tons normally means long tons (for example, Navy ships) or metric tons (world grain production figures). Both the long and short ton are defined as 20 hundredweights, but a hundredweight is 100 pounds (45.359237 kg) in the US system (short or net hundredweight) and 112 pounds (50.80234544 kg) in the Imperial system (long or gross hundredweight).

6) Gross Ton

IHO Definition: Gross tonnage (GT) is a function of the volume of all ship's enclosed spaces (from keel to funnel) measured to the outside of the hull framing. There is a sliding scale factor. So GT is a kind of capacity-derived index that is used to rank a ship for purposes of determining manning, safety and other statutory requirements and is expressed simply as GT, which is a unitless entity, even though its derivation is tied to the cubic meter unit of volumetric capacity. Tonnage measurements are now governed by an IMO Convention (International Convention on Tonnage Measurement of Ships, 1969 (London-Rules)), which applies to all ships built after July 1982. In accordance with the Convention, the correct term to use now is GT, which is a function of the moulded volume of all enclosed spaces of the ship.

7) Net Ton

IHO Definition: Net tonnage (NT) is based on a calculation of the volume of all cargo spaces of the ship. It indicates a vessel's earning space and is a function of the moulded volume of all cargo spaces of the ship.

9) Suez Canal Net Tonnage

IHO Definition: The Suez Canal Net Tonnage (SCNT) is derived with a number of modifications from the former net register tonnage of the Moorsom System and was established by the International Commission of Constantinople in its Protocol of 18 December 1873. It is still in use, as amended by



1. The Cross check of S-1XX FC and its DCEG——S-131

No.	Classification	Feature Catalogue Clause No.	DCEG Clause No.	Issue Type	Contents in Feature Catalogue	Contents in DCEG
3	R	5.7	16.5	Role name inconsistency	Authority	Authority (reference)
4	R	5.9	16.7	Role name inconsistency	Contact details	Contact details (reference)

Number	Role	Definition
5.7	Authority	A pointer to an Authority object

16.5 Authority (reference)

IHO Definition: A pointer to an Authority object

Number	Role	Definition
5.9	Contact details	A pointer to an Contact Details object

16.7 Contact details (reference)

IHO Definition: A pointer to an Contact Details object



1. The Cross check of S-1XX FC and its DCEG—S-131

No.	Classification	Feature Catalogue Clause No.	DCEG Clause No.	Issue Type	Contents in Feature Catalogue	Contents in DCEG
5	A	6.2	15.2	Role name inconsistency	theContactDetails; theAuthority	Contact details (reference); Authority (reference)
6	A	6.3	15.3	Role name inconsistency	theServiceHours; theAuthority srvHrs	Service Hours (reference); Authority service hours

Number	Association	Number	Role reference
6.2	Authority contact	5.7	theAuthority
		5.9	theContactDetails

Number	Association	Number	Role reference
6.3	Authority hours	5.8	theAuthority_srvHrs
		5.14	theServiceHours

15.2 Authority Contact

IHO Definition: Contact information for an authority

Remarks:

- No remarks.

Role Type	Role	Associated With	Multiplicity
Association	Contact details (reference)	Contact details	0, *
	Authority (reference)	Authority	0, *

15.3 Authority Hours

IHO Definition: Service hours for an authority

Remarks:

- No remarks.

Role Type	Role	Associated With	Multiplicity
Association	Service Hours (reference)	Service Hours	0, *

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	Authority service hours	Authority	0, *
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No.	Classification	Feature Catalogue Clause No.	DCEG Clause No.	Issue Type	Contents in Feature Catalogue	Contents in DCEG
7	A	6.7	15.10	Role name inconsistency	theContactDetails	Contact details (reference)
8	A	6.16	15.15	Role name inconsistency	subUnit	Sub-Unit

Number	Association	Number	Role reference
6.7	Service contact	5.19	servicePlace
		5.9	theContactDetails

Number	Association	Number	Role reference
6.16	Subsection	5.39	subUnit
		5.24	constitute

15.10 Service Contact

IHO Definition: Contact details for a service or facility

Remarks:

- No remarks.

Role Type	Role	Associated With	Multiplicity
Association	Contact details (reference)	Contact Details	0, *
	Service place	Organization Contact Area	

15.15 Subsection

IHO Definition: A division of a feature into parts of the same type as the whole.

Remarks:

- No remarks.

Role Type	Role	Associated With	Multiplicity
Aggregation	Constitute	Harbour Area Section	0, 1
	Sub-Unit	Harbour Area Section	0, *



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No.	Classification	Feature Catalogue Clause No.	DCEG Clause No.	Issue Type	Contents in Feature Catalogue	Contents in DCEG
9	F	8.4	5.5	Corresponding association types are inconsistent.	HarbourAreaSection	Terminal

Number	Feature type	Number	Attribute or Role Type	Number	Association	Role Ref	Number	Feature or Information Type
8.4	Harbour Physical Infrastructure	3.121	verticalClearanceValue association	6.17	Infrastructure	infrastructureLocation	8.16	HarbourAreaSection F

Feature/Information associations							
Type	Association Name	Association Ends					
		Class	Role	Mult	Class	Role	Mult
association	Infrastructure	HarbourPhysicalInfrastructure	hasInfrastructure	0, *	Terminal	infrastructureLocation	0,1



1. The Cross check of S-1XX FC and its DCEG——S-131

No.	Classification	Feature Catalogue Clause No.	DCEG Clause No.	Issue Type	Contents in Feature Catalogue	Contents in DCEG
10	F	8.6、 8.9	6.2、 6.5	Association name inconsistency	PrimaryAuxiliaryFacility	Primary/Auxiliary Facility

Number	Feature type	Attribute or Type	Number	Association	Role Ref
8.6	Anchor Berth	association	6.14	ServiceAvailability	serviceDescriptionRef
		association	6.8	LocationHours	location_srvHrs
		association	6.18	PrimaryAuxiliaryFacility	auxiliaryFacility

Number	Feature type	Attribute or Type	Number	Association	Role Ref
8.9	Berth Position	3.6 availableBert.S			
		3.8 bollardDescri.S			
		3.10 bollardPull S			
		3.9 bollardNumber S			
		3.54 gLNExtension S			
		3.72 metreMarkNumb.S			
		3.67 manifoldNumbe.S			
		3.93 rampNumber S			
		3.64 locationByTex S			
		composition	6.19	Demarcation	demarcatedFeature
		association	6.18	PrimaryAuxiliaryFacility	auxiliaryFacility

	Association Name	Class	Role	Mult	Class	Role	Mult
composition	Demarcation	BerthPosition	demarcationIndicator	0,*	Berth	demarcatedFeature	1,1
association	Primary/Auxiliary Facility	BerthPosition	primaryFacility	0,1	MooringWarpingFacility	auxiliaryFacility	0,*

Feature/Information associations							
Type	Association Name	Association Ends					
		Class	Role	Mult	Class	Role	Mult
association	Service Availability				AvailablePortServices	serviceDescriptionReference	0,1
association	Location Hours				ServiceHours	location_srvHrs	0,1

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association	Primary/Auxiliary Facility	AnchorBerth	primaryFacility	0,1	MooringWarpingFacility	auxiliaryFacility	0,*
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No.	Classification	Feature Catalogue Clause No.	DCEG Clause No.	Issue Type	Contents in Feature Catalogue	Contents in DCEG
11	F	8.8	6.4	Corresponding association type inconsistent	HarbourAreaSection	HarbourAreaSection, Terminal

Number	Feature type	Number	Attribute or Type	Number	Association	Role Ref	Number	Feature or Information	Type
8.8	Berth	3.6	availableBerth						
		3.8	bollardDescription						
		3.10	bollardPull						
		3.73	minimumBerthDepth						
		3.47	elevation						
		3.29	cathodicProtection						
		3.16	categoryOfBerth						
		3.87	portFacilityName						
		3.9	bollardNumber						
		3.54	gLNExtension						
		3.72	metreMarkNumber						
		3.67	manifoldNumber						
		3.93	rampNumber						
		3.64	locationByText						
		3.71	methodOfSecuring						
		3.118	unLocationCode						
		3.110	terminalIdentifier						
			association	6.14	ServiceAvailability	serviceDescriptionReference	7.5	AvailablePortServices	I
			association	6.8	LocationHours	location_srvHrs	7.13	ServiceHours	I
			association	6.19	Demarcation	demarcationIndicator	8.9	BerthPosition [m: {0, ∞}]	F
			aggregation	6.21	LayoutDivision	componentOf	8.16	HarbourAreaSection	F

Feature/Information associations							
Type	Association Name	Association Ends					
		Class	Role	Mult	Class	Role	Mult
association	Service Availability				AvailablePortServices	serviceDescriptionReference	0,1
association	Location Hours				ServiceHours	location_srvHrs	0,1
association	Demarcation	Berth	demarcatedFeature	1,1	BerthPosition	demarcationIndicator	0,*
association	Layout Division	Berth	layoutUnit	0,*	HarbourAreaSection, Terminal	componentOf	1,1



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No.	Classification	Feature Catalogue Clause No.	DCEG Clause No.	Issue Type	Contents in Feature Catalogue	Contents in DCEG
12	F	8.12	6.7	Corresponding association type inconsistent	HarbourAreaSection	HarbourBasin

Number	Feature type	Number	Attribute or Type	Number	Association	Role Ref	Number	Feature or Information	Type
8.12	Dumping Ground	4.5	depthsDescrip C						
		3.64	locationByTex S						
		4.18	markedBy C						
		3.61	iSPSLevel S						
			association	6.8	LocationHours	location_srvHrs	7.13	ServiceHours	I
			aggregation	6.21	LayoutDivision	componentOf	8.16	HarbourAreaSection	F

Feature/Information associations							
Type	Association Name	Association Ends					
		Class	Role	Mult	Class	Role	Mult
association	Location Hours				ServiceHours	location_srvHrs	0,1
aggregation	Layout Division	DumpingGround	layoutUnit	0,*	HarbourBasin	componentOf	1,1



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No.	Classification	Feature Catalogue Clause No.	DCEG Clause No.	Issue Type	Contents in Feature Catalogue	Contents in DCEG
13	F	8.16	6.9	Corresponding association type inconsistent	AnchorageArea	AnchorageArea, Berth, DockArea, DumpingGround, HarbourBasin, PilotBoardingPlace, SeaplaneLandingArea, Terminal, TurningBasin, WaterwayArea

Number	Feature type	Number	Attribute or Type	Number	Association	Role Ref	Number	Feature or Information Type
8.16	Harbour Area Section	3.23	categoryOfPort					
		3.21	categoryOfHarbour					
		3.61	iSPSLevel					
		4.6	facilitiesLayout					
			association	6.14	ServiceAvailability	serviceDescriptionReference	7.5	AvailablePortServices I
			association	6.8	LocationHours	location_srvHrs	7.13	ServiceHours I
			aggregation	6.21	LayoutDivision	componentOf	8.15	HarbourAreaAdministrative F
			aggregation	6.16	Subsection	constitute	8.16	HarbourAreaSection F
			association	6.16	Subsection	subUnit	8.16	HarbourAreaSection [m: {0, ∞}] F
			association	6.17	Infrastructure	hasInfrastructure	8.4	HarbourPhysicalInfrastructure F
			association	6.21	LayoutDivision	layoutUnit	8.7	AnchorageArea [m: {0, ∞}] F

association	Layout Division	HarbourAreaSection	component Of	1,1	AnchorageArea, Berth, DockArea, DumpingGround, HarbourBasin, PilotBoardingPlace, SeaplaneLandingArea, Terminal, TurningBasin, WaterwayArea	layoutUnit	0,*
association	Infrastructure	HarbourAreaSection	infrastructure Location	0,1	HarbourPhysicalInfrastructure	hasInfrastructure	0,*



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No.	Classification	Feature Catalogue Clause No.	DCEG Clause No.	Issue Type	Contents in Feature Catalogue	Contents in DCEG
14	F	8.19	6.11	Corresponding association type inconsistent	AnchorBerth	BerthPosition

Number	Feature type	Number	Attribute or Type	Number	Association	Role Ref	Number	Feature or Information	Type
8.19	Mooring/Warping	3.22	categoryOfMooring						
		3.59	idCode						
		3.8	bollardDescription						
		3.10	bollardPull						
		3.57	heavingLines						
			association	6.14	ServiceAvailability	serviceDescriptionReference	7.5	AvailablePortServices	I
			association	6.8	LocationHours	location_srvHrs	7.13	ServiceHours	I
			association	6.18	PrimaryAuxiliaryFacility	primaryFacility	8.6	AnchorBerth	F

Association Name	Class	Role	Mult	Class	Role	Mult	
association	Service Availability			AvailablePortServices	serviceDescriptionReference	0,1	
association	Location Hours			ServiceHours	location_srvHrs	0,1	
association	Primary/Auxiliary Facility	MooringWarpingFacility	auxiliaryFacility	0,*	BerthPosition	primaryFacility	0,1



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No.	Classification	Feature Catalogue Clause No.	DCEG Clause No.	Issue Type	Contents in Feature Catalogue	Contents in DCEG
15	F	8.30	8.1	Corresponding association role inconsistent	positions	identifies

Number	Feature type	Number	Attribute or Type	Number	Association	Role Ref
8.30	Text Placement	3.83	orientationVal			
		3.111	text			
		3.112	textOffsetMm			
		3.113	textType			
		3.96	scaleMinimum			
			association	6.15	TextAssociation	positions

Feature/Information associations							
Type	Association Name	Association Ends					
		Class	Role	Mult	Class	Role	Mult
association	Text Association	TextPlacement	positions	0,1	FeatureType	identifies	1,1



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2. The Cross check of S-1XX and S-101 FCs

No.	Publications	S-101 Clause No.	S-1XX Clause No.	Issue Type	Contents in S-101 Feature Catalogue	Contents in S-1XX Feature Catalogue
1	S-121	8.146	8.3	Feature type name inconsistency	Straight Territorial Sea Baseline	Straight Baseline
2	S-121	8.147	8.25	Feature type name inconsistency	Territorial Sea Area	Territorial Sea
3	S-121	8.137	8.28	Feature type name inconsistency	Continental Shelf Area	Continental Shelf

S-101

Number	Feature type
8.146	Straight Territorial Sea Baseline

S-101 Geo Feature: Straight Territorial Sea Baseline (STSLNE)

Number	Feature type
8.147	Territorial Sea Area

S-101 Geo Feature: Territorial Sea Area (TESARE)

Number	Feature type
8.137	Continental Shelf Area

S-101 Geo Feature: Continental Shelf Area (COSARE)

S-121

Number	Feature type
8.3	Straight Baseline

AlphaCode: STSLNE

Name: Straight Baseline

Number	Feature type
8.25	Territorial Sea

AlphaCode: TESARE

Name: Territorial Sea

Number	Feature type
8.28	Continental Shelf

AlphaCode: COSARE

Name: Continental Shelf



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2. The Cross check of S-1XX and S-101 FCs

No.	Publications	S-101 Clause No.	S-1XX Clause No.	Issue Type	Contents in S-101 Feature Catalogue	Contents in S-1XX Feature Catalogue
4	S-122	3.79	3.24	Name inconsistency	2 Assessed (Oceanic)	2 Oceanic
5	S-122	3.85	3.25	Enumeration listed values coding inconsistent.	1 Sunday	1 Monday
6	S-122	3.84	3.30	Value type inconsistency	text	date
7	S-122	3.129	3.48	Value type inconsistency	text	URL
8	S-122	3.141	3.50	Value type inconsistency	text	integer

S-101

Number	Name	Value type	Listed values	Value
3.79	Data Assessment	enumeration	Assessed	1
			Assessed (Oceanic)	2
			Unassessed	3

Number	Name	Value type	Listed values	Value
3.85	Day of Week	enumeration	Sunday	1
			Monday	2
			Tuesday	3
			Wednesday	4
			Thursday	5
			Friday	6
			Saturday	7

Number	Name	Value type
3.84	Date Variable	text
3.129	Linkage	text
3.141	MMSI Code	text

S-122

Number	Name	Value type	Listed values	Value
3.24	Data assessment	enumeration	assessed	1
			oceanic	2
			unassessed	3

Number	Name	Value type	Listed values	Value
3.25	Day Of Week	enumeration	monday	1
			tuesday	2
			wednesday	3
			thursday	4
			friday	5
			saturday	6
			sunday	7

Number	Name	Value type
3.30	Date variable	date
3.48	Linkage	URL
3.50	MMSI Code	integer



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2. The Cross check of S-1XX and S-101 FCs

No.	Publications	S-101 Clause No.	S-1XX Clause No.	Issue Type	Contents in S-101 Feature Catalogue	Contents in S-1XX Feature Catalogue
9	S-122	3.191	3.69	Enumeration Listed values' name inconsistency	Unwatched	un-watched

S-101

Number	Name	Value type	Listed values	Value
3.191	Status	enumeration	Permanent	1
			Occasional	2
			Recommended	3
			Not in Use	4
			Periodic/Intermitte	5
			Reserved	6
			Temporary	7
			Private	8
			Mandatory	9
			Extinguished	11
			Illuminated	12
			Historic	13
			Public	14
			Synchronized	15
			Watched	16
			Unwatched	17
			Existence Doubtful	18
			Buoyed	28

S-122

Number	Name	Value type	Listed values	Value
3.69	Status	enumeration	permanent	1
			occasional	2
			recommended	3
			not in use	4
			periodic/inte	5
			reserved	6
			temporary	7
			private	8
			mandatory	9
			extinguished	11
			illuminated	12
			historic	13
			public	14
			synchronized	15
			watched	16
			un-watched	17
			existence dou	18
			buoyed	28



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2. The Cross check of S-1XX and S-101 FCs

No.	Publications	S-101 Clause No.	S-1XX Clause No.	Issue Type	Contents in S-101 Feature Catalogue	Contents in S-1XX Feature Catalogue
10	S-122	3.58	3.95	Value type inconsistency	enumeration	S100_CodeList
11	S-122	3.201	3.98	Value type inconsistency	enumeration	S100_CodeList
12	S-122	3.206	3.100	EnumerationListed values' name inconsistency	name	feature name
13	S-122	8.1	8.7	Name inconsistency	Quality of Non-Bathymetric Data	Quality of NonBathymetric Data

S-101

S-122

Number	Name	Value type
3.58	Category of Schedule	enumeration

Number	Name	Value type
3.201	Telecommunication Service	enumeration

Number	Name	Value type	Listed values	Value
3.206	Text Type	enumeration	Name	1
			Light Characteristi	2

Number	Feature type
8.1	Quality of Non-Bathymetric Data

Number	Name	Value type
3.95	Category of schedule	S100_CodeList

Number	Name	Value type
3.98	Telecommunication service	S100_CodeList

Number	Name	Value type	Listed values	Value
3.100	Text type	enumeration	feature name	1

Number	Feature type
8.7	Quality of NonBathymetric Data



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No.	Publications	S-101 Clause No.	S-1XX Clause No.	Issue Type	Contents in S-101 Feature Catalogue	Contents in S-1XX Feature Catalogue
15	S-123	3.79	3.27	Name inconsistency	Assessed (Oceanic)	oceanic
16	S-123	3.85	3.28	Enumeration listed value number inconsistent.	1 Sunday	1 Monday

S-101

S-123

Number	Name	Value type	Listed values	Value
3.79	Data Assessment	enumeration	Assessed	1
			Assessed (Oceanic)	2
			Unassessed	3
Number	Name	Value type	Listed values	Value
3.85	Day of Week	enumeration	Sunday	1
			Monday	2
			Tuesday	3
			Wednesday	4
			Thursday	5
			Friday	6
			Saturday	7

Number	Name	Value type	Listed values	Value
3.27	Data assessment	enumeration	assessed	1
			oceanic	2
			unassessed	3
Number	Name	Value type	Listed values	Value
3.28	Day Of Week	enumeration	monday	1
			tuesday	2
			wednesday	3
			thursday	4
			friday	5
			saturday	6
			sunday	7



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2. The Cross check of S-1XX and S-101 FCs

No.	Publications	S-101 Clause No.	S-1XX Clause No.	Issue Type	Contents in S-101 Feature Catalogue	Contents in S-1XX Feature Catalogue
17	S-123	3.84	3.33	Value type inconsistency	text	date
18	S-123	3.129	3.55	Value type inconsistency	text	URL
19	S-123	3.58	3.112	Value type inconsistency	enumeration	S100_CodeList
20	S-123	3.201	3.115	Value type inconsistency	enumeration	S100_CodeList
21	S-123	8.1	8.17	Attributes name inconsistency	Quality of Non-Bathymetric Data	Quality of NonBathymetric Data

S-101

Number	Feature type	Value type
3.84	Date Variable	text

Number	Feature type	Value type
3.129	Linkage	text

Number	Feature type	Value type
3.58	Category of Schedule	enumeration

Number	Feature type	Value type
3.201	Telecommunication Service	enumeration

Number	Feature type
8.1	Quality of Non-Bathymetric Data

S-123

Number	Feature type	Value type
3.33	Date variable	date

Number	Feature type	Value type
3.55	Linkage	URL

Number	Feature type	Value type
3.112	Category of schedule	S100_CodeList

Number	Feature type	Value type
3.115	Telecommunication service	S100_CodeList

Number	Feature type
8.17	Quality of NonBathymetric Data



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2. The Cross check of S-1XX and S-101 FCs

No.	Publications	S-101 Clause No.	S-1XX Clause No.	Issue Type	Contents in S-101 Feature Catalogue	Contents in S-1XX Feature Catalogue
22	S-127	3.61	3.23	Enumeration listed value7 name inconsistency	Flood Barrage Station	flood barrage
23	S-127	3.62	3.24	Enumeration listed value name inconsistency	Ice Warning	ice

S-101

Number	Name	Value type	Listed values	Value
3.61	Category of Signal Station, Traffic	enumeration	Port Control	1
			Port Entry and Depart	2
			International Port Tr	3
			Berthing Signal Stati	4
			Dock	5
			Lock	6
			Flood Barrage Station	7
			Bridge Passage	8
			Dredging	9
			Traffic Control Light	10

Number	Name	Value type	Listed values	Value
3.62	Category of Signal Station, Warning	enumeration	Danger	1
			Maritime Obstruction	2
			Cable	3
			Military Practice	4
			Distress	5
			Weather	6
			Storm	7
			Ice Warning	8
			Tide	9
			Tide	10
			Tidal Stream	11
			Tide Gauge	12
			Tide Scale	13

S-127

Number	Name	Value type	Listed values	Value
3.23	Category of signal station, traffic	enumeration	port control	1
			port entry and departure	2
			International Port Traffic	3
			berthing	4
			dock	5
			lock	6
			flood barrage	7
			bridge passage	8
			dredging	9
			traffic control light	10
			oncoming traffic indication	13

Number	Name	Value type	Listed values	Value
3.24	Category of signal station, warning	enumeration	danger	1
			maritime obstruction	2
			cable	3
			military practice	4
			distress	5
			weather	6
			storm	7
			ice	8
			tide	9
			tide	10
			tidal stream	11
			tide gauge	12
			tide scale	13



IHO

RESULTS OF THE CROSS CHECK OF FEATURE CATALOGUES

International Hydrographic Organization

2. The Cross check of S-1XX and S-101 FCs

No.	Publications	S-101 Clause No.	S-1XX Clause No.	Issue Type	Contents in S-101 Feature Catalogue	Contents in S-1XX Feature Catalogue
24	S-127	3.129	3.58	Value type inconsistency	text	URL
25	S-127	3.191	3.88	Enumeration listed value name inconsistency	Unwatched	un-watched

S-101

Number	Name	Value type
3.129	Linkage	text

Number	Name	Value type	Listed values	Value
3.191	Status	enumeration	Permanent	1
			Occasional	2
			Recommended	3
			Not in Use	4
			Periodic/Intermittent	5
			Reserved	6
			Temporary	7
			Private	8
			Mandatory	9
			Extinguished	11
			Illuminated	12
			Historic	13
			Public	14
			Synchronized	15
			Watched	16
			Unwatched	17
			Existence Doubtful	18
			Buoyed	28

S-127

Number	Name	Value type
3.58	Linkage	URL

Number	Name	Value type	Listed values	Value
3.88	Status	enumeration	permanent	1
			occasional	2
			recommended	3
			not in use	4
			periodic/intermittent	5
			reserved	6
			temporary	7
			private	8
			mandatory	9
			extinguished	11
			illuminated	12
			historic	13
			public	14
			synchronized	15
			watched	16
			un-watched	17
			existence doubtful	18
			buoyed	28



IHO

RESULTS OF THE CROSS CHECK OF FEATURE CATALOGUES

2. The Cross check of S-1XX and S-101 FCs

No.	Publications	S-101 Clause No.	S-1XX Clause No.	Issue Type	Contents in S-101 Feature Catalogue	Contents in S-1XX Feature Catalogue
26	S-127	3.201	3.120	Value type inconsistency	enumeration	S100_CodeList

S-101

Number	Name	Value type
3.201	Telecommunication Service	enumeration

S-127

Number	Name	Value type
3.120	Telecommunication service	S100_CodeList



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RESULTS OF THE CROSS CHECK OF FEATURE CATALOGUES

2. The Cross check of S-1XX and S-101 FCs

No.	Publications	S-101 Clause No.	S-1XX Clause No.	Issue Type	Contents in S-101 Feature Catalogue	Contents in S-1XX Feature Catalogue
28	S-128	3.168	3.7	Value type inconsistency	S100_TruncatedDate	date
29	S-128	3.201	3.16	Attributes name inconsistency	Telecommunication Service	Telecommunication Services
30	S-128	3.201	3.16	Enumeration listed value name inconsistency	SMS	sms

S-101

Number	Name	Value type
3.168	Reported Date	S100 TruncatedDate

Number	Name	Value type	Listed values	Value
3.201	Telecommunication Service	enumeration	Voice	1
			Facsimile	2
			SMS	3
			Data	4
			Streamed Data	5
			Telex	6
			Telegraph	7
			Email	8

S-128

Number	Name	Value type
3.7	Reported Date	date

Number	Name	Value type	Listed values	Value
3.16	Telecommunication Services	enumeration	voice	1
			facsimile	2
			sms	3
			data	4
			streamed data	5
			telex	6
			telegraph	7
			email	8



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RESULTS OF THE CROSS CHECK OF FEATURE CATALOGUES

2. The Cross check of S-1XX and S-101 FCs

No.	Publications	S-101 Clause No.	S-1XX Clause No.	Issue Type	Contents in S-101 Feature Catalogue	Contents in S-1XX Feature Catalogue
32	S-128	3.83	3.53	Attributes name inconsistency	Date Start	Start Date
33	S-128	3.81	3.54	Attributes name inconsistency	Date End	End Date
34	S-128	3.83 3.81	3.53 3.54	Value type inconsistency	S100_TruncatedDate	date

S-101

S-128

Number	Name	Value type
3.83	Date Start	S100 TruncatedDate

Number	Name	Value type
3.81	Date End	S100_TruncatedDate

Number	Name	Value type
3.53	Start Date	date

Number	Name	Value type
3.54	End Date	date



IHO

RESULTS OF THE CROSS CHECK OF FEATURE CATALOGUES

2. The Cross check of S-1XX and S-101 FCs

No.	Publications	S-101 Clause No.	S-1XX Clause No.	Issue Type	Contents in S-101 Feature Catalogue	Contents in S-1XX Feature Catalogue
35	S-130	5.5	5.1	101 has space, 130 do not has space.	Component of	componentOf
36	S-130	5.6	5.2	101 has space, 130 do not has space.	Consists of	consistsOf

S-101

Number	Role	Definition
5.5	Component of	A pointer to the aggregate in a whole-part relationship.
5.6	Consists of	A pointer to a part in a whole-part relationship.

S-130

Number	Role	Definition
5.1	componentOf	A pointer to the aggregate in a whole-part relationship.
5.2	consistsOf	A pointer to a part in a whole-part relationship.



IHO

RESULTS OF THE CROSS CHECK OF FEATURE CATALOGUES

International Hydrographic Organization

3.The Cross Check of S-1xx FCs and GI registry

No.	Publications	Feature Catalogue Clause No.	Contents in S-1XX Feature Catalogue	Status
1	S-121	3.6	Releasability Type	Unregistered
2	S-121	3.16-3.20 3.22	The feature catalogue uses the camelcase representation of the attribute, not the registered name.	Registered

Number	Name	Value type
3.16	onlineResourceLinkageURL	text

Name	Online Resource Linkage URL
Alias	MA_OnlineResourceLinkageURL
CamelCase	onlineResourceLinkageURL



3.The Cross Check of S-1xx FCs and GI registry

No.	Publications	Feature Catalogue Clause No.	Contents in S-1XX Feature Catalogue	Status
3	S-121	3.21	onlineResourceFunction	Unregistered
4	S-121	3.23	spatialSourceType	Unregistered
5	S-121	3.24	sourceAvailabilityStatus	Unregistered
6	S-121	3.30	Source Recordation Date	Unregistered
7	S-121	3.37	Address Postcode	Unregistered
8	S-121	3.38	Address Email Address	Unregistered
9	S-121	3.39	Contact Phone Number	Unregistered
10	S-121	3.41	Responsible Party Organisation Name	Unregistered
11	S-121	3.46	Party Group Type	Unregistered
12	S-121	3.54	Individual Name	Unregistered
13	S-121	3.55	Organisation Name	Unregistered
14	S-121	3.56	Position Name	Unregistered
15	S-121	3.57	Organisational Role	Unregistered
16	S-121	3.58	BAU Name	Unregistered
17	S-121	3.59	BAU Name	Unregistered
18	S-121	3.60	BAU Context	Unregistered
19	S-121	3.61	RRR Description	Unregistered

registry
Data Dictionary Register

Home / GI REGISTERS / Data Dictionary Register

Feature Type 0, Information Type 0, Attribute Type 0, Complex Type 0, Enumeration Value 0, Codelist Value 0

Feature Association 0, Information Association 0, Role 0

Domain: ALL, Status: Valid, Attribute type: ALL

Category: Name, onlineResourceFunction

Item ID	Name	Camelcase	Definition	Domain	Status	Date Accepted
No matching records found						



IHO

RESULTS OF THE CROSS CHECK OF FEATURE CATALOGUES

International Hydrographic Organization

3.The Cross Check of S-1xx FCs and GI registry

No.	Publications	Feature Catalogue Clause No.	Contents in S-1XX Feature Catalogue	Status
20	S-121	3.62	RRR Share	Unregistered
21	S-121	3.63	RRR Time Spec	Unregistered
22	S-121	4.1	Source Address	Unregistered
23	S-121	7.2	Right	Unregistered
24	S-121	7.9	Source	Unregistered
25	S-121	8.7	Bay Closing Baseline	Unregistered
26	S-122	3.3	Ballast (It is In Ballast in GI, and have same definitions, but different names)	Unregistered
27	S-122	3.15	Category of temporal variation (This attribute is available in GI, but there are two Spaces after "of" in FC)	Registered
28	S-122	3.55	Online description	Unregistered
29	S-122	3.74	Time reference	Unregistered
30	S-122	3.92	Variable Date	Unregistered
31	S-122	4.16	Source indication (Not in complex types, only in attribute types, that is, there are no sub-attributes)	Unregistered
32	S-122	4.21	Vessels measurements	Unregistered

registry
Data Dictionary Register

Home / GI REGISTERS / Data Dictionary Register

Feature Type 0 Information Type 0 Attribute Type 1 Complex Type 0 Enumeration Value 0 Codelist Value 0

Feature Association 0 Information Association 0 Role 0

Domain ALL Status Valid Attribute type ALL

Category Name Category of temporal va

[Attribute] Dictionary Details

Domain	IHO Hydro
Name	Category of Temporal Variation
CamelCase	categoryOfTemporalVariation
Item Identifier	200 ?
Definition	An assessment of the likelihood of change over time.
Data type	enumeration



3.The Cross Check of S-1xx FCs and GI registry

No.	Public ations	Feature Catalogue Clause No.	Contentsin S-1XX Feature Catalogue	Status
33	S-122	7.1	InformationType (The feature catalogue uses the camelcase representation of the attribute, not the registered name.)	Registered
34	S-122	8.1	FeatureType (The feature catalogue uses the camelcase representation of the attribute, not the registered name.)	Registered

Data Dictionary Register

Home / GI REGISTERS / Data Dictionary Register

Feature Type
0

Information Type
2

Attribute Type
0

Complex Type
0

Enumeration Value
0

Codelist Value
0

Feature Association
0

Information Association
0

Role
0

Domain: Status: Category:

[Information] Dictionary Details

Domain	IHO Hydro
Name	Information Type
CamelCase	InformationType
Item Identifier	42 ?
Definition	Generalized information type which carries all the common attributes.



IHO

RESULTS OF THE CROSS CHECK OF FEATURE CATALOGUES

3.The Cross Check of S-1xx FCs and GI registry

International Hydrographic Organization

No.	Publications	Feature Catalogue Clause No.	Contents in S-1XX Feature Catalogue	Status
35	S-122	8.7	Quality of NonBathymetric Data (Inconsistent name, in GI is Quality of Non-Bathymetric Data)	Registered
48	S-123	8.17	Quality of NonBathymetric Data (Inconsistent name, in GI is Quality of Non-Bathymetric Data)	Registered

registry
Data Dictionary Register

Home / GI REGISTERS / Data Dictionary Register

registry
Data Dictionary Register

Home / GI REGISTERS / Data Dictionary Register

Feature Type 0 Information Type 0 Attribute Type 0 Complex Type 0 Enumeration Value 0 Codelist Value 0

Feature Association 0 Information Association 0 Role 0

Domain ALL Status Valid Category Name

Quality of NonBathymet

Item ID	Name	Camelcase	Definition	Domain	Status	Date Accepted
No matching records found						

Feature Type 1 Information Type 0 Attribute Type 0 Complex Type 0 Enumeration Value 0 Codelist Value 0

Feature Association 0 Information Association 0 Role 0

Domain ALL Status Valid Category Name

Quality of Non-Bathyme

[Feature] Dictionary Details

Domain	IHO Hydro
Name	Quality of Non-Bathymetric Data
CamelCase	QualityOfNonBathymetricData
Item Identifier	186 ?
Use Type	Meta : Contains information about other objects.



IHO

RESULTS OF THE CROSS CHECK OF FEATURE CATALOGUES

3.The Cross Check of S-1xx FCs and GI registry

No.	Publications	Feature Catalogue Clause No.	Contents in S-1XX Feature Catalogue	Status
36	S-123	3.3	Ballast (It is In Ballast in GI, and have same definition, but different names)	Unregistered
37	S-123	3.19	Category of temporal variation (This attribute is available in GI, but there are two Spaces after "of" in FC)	Registered

3.3 Ballast

Name: **Ballast**
 Definition: Whether the vessel is in **ballast**
 Code: **'ballast'**
 Remarks:
 Aliases: (none)
 Value Type: boolean

The screenshot shows the 'Data Dictionary Register' interface. At the top, there are navigation links: Home / GI REGISTERS / Data Dictionary Register. Below this, there are several filter buttons: Feature Type (0), Information Type (0), Attribute Type (1), Complex Type (0), Enumeration Value (0), and Codelist Value (0). There are also buttons for Feature Association (0), Information Association (0), and Role (0). Below the buttons, there are dropdown menus for Domain (ALL), Status (Valid), and Attribute type (ALL). There are also input fields for Category, Name, and In Ballast, with a search icon. Below the filters, there is a table titled '[Attribute] Dictionary Details' with the following rows: Domain (IHO Hydro), Name (In Ballast), CamelCase (InBallast), Item Identifier (524 ?), Definition (Whether the vessel is in ballast.), and Data type (boolean). The 'Name' and 'CamelCase' cells are highlighted with a red box.



IHO

RESULTS OF THE CROSS CHECK OF FEATURE CATALOGUES

International Hydrographic Organization

3.The Cross Check of S-1xx FCs and GI registry

No.	Publications	Feature Catalogue Clause No.	Contentsin S-1XX Feature Catalogue	Status
38	S-123	3.65	Online description	Unregistered
39	S-123	3.84	Time reference	Unregistered
40	S-123	3.109	Variable Date	Unregistered
41	S-123	4.15	Radio station communication description	Unregistered
42	S-123	4.17	Source indication (Not in complex types, only in attribute types, that is, there are no sub-attributes)	Unregistered
43	S-123	4.22	Time of observation	Unregistered
44	S-123	4.24	Vessels measurements	Unregistered
45	S-123	7.1	InformationType (The feature catalogue uses the camelcase representation of the attribute, not the registered name.)	Registered
46	S-123	8.1	FeatureType(The feature catalogue uses the camelcase representation of the attribute, not the registered name.)	Registered
47	S-123	8.4	Coastguard station	Unregistered

Data Dictionary Register

Home / GI REGISTERS / Data Dictionary Register

Feature Type 0 | Information Type 2 | Attribute Type 0 | Complex Type 0 | Enumeration Value 0 | Codelist Value 0

Feature Association 0 | Information Association 0 | Role 0

Domain: ALL | Status: Valid | Category: Name

Information Type [Search]

[Information] Dictionary Details

Domain	IHO Hydro
Name	Information Type
CamelCase	InformationType
Item Identifier	42 ?
Definition	Generalized information type which carries all the common attributes.

**IHO**

RESULTS OF THE CROSS CHECK OF FEATURE CATALOGUES

3.The Cross Check of S-1xx FCs and GI registry

No.	Publications	Feature Catalogue Clause No.	Contentsin S-1XX Feature Catalogue	Status
49	S-127	3.99	Underkeel allowance fixed	Unregistered
50	S-127	3.100	Underkeel allowance variable beam based	Unregistered
51	S-127	3.101	Underkeel allowance variable draught based	Unregistered
52	S-127	4.16	Source indication (Not in complex types, only in attribute types, that is, there are no sub-attributes)	Unregistered
53	S-127	4.21	Underkeel allowance	Unregistered
54	S-127	4.22	Vessels measurements	Unregistered
55	S-127	8.2	Organisation contact area	Unregistered
56	S-127	8.8	Local Port Service Area	Unregistered
57	S-127	8.20	Ship Reporting Service Area	Unregistered
58	S-127	8.23	Underkeel clearance allowance area	Unregistered
59	S-127	8.24	Underkeel clearance management area	Unregistered
60	S-127	8.27	Data quality	Unregistered
61	S-127	8.28	Quality of temporal variation	Unregistered
62	S-128	3.4	Other Data Type Description	Unregistered
63	S-128	3.5	File Location	Unregistered
64	S-128	3.6	File Name	Unregistered
65	S-128	3.9	ISSN	Unregistered



IHO

RESULTS OF THE CROSS CHECK OF FEATURE CATALOGUES

International Hydrographic Organization

3.The Cross Check of S-1xx FCs and GI registry

7.16 Telecommunication Services

No.	Publications	Feature Catalogue Clause No.	Contents in S-1XX Feature Catalogue	Status
66	S-128	3.10	Character Encoding	Unregistered
67	S-128	3.14	Digital Signature Value	Unregistered
68	S-128	3.15	Digital Signature Value	Unregistered
69	S-128	3.16	Telecommunication Services (Inconsistent name, in GI is Telecommunication Service. They have same definitions, but different names)	Registered
70	S-128	3.17	Support File Purpose	Unregistered
71	S-128	3.18	Support File Format	Unregistered
72	S-128	3.21	Organization Name	Unregistered
73	S-128	3.22	Time Reference	Unregistered
74	S-128	3.23	Category of CommPref	Unregistered
75	S-128	3.34	Copyright	Unregistered
76	S-128	3.36-3.38, 3.41, 3.36-3.38, 3.64-3.65, 3.71-3.82, 3.85-3.91, 3.93, 3.95-3.98, 3.100, 3.102	Unregistered	
77	S-128	4	4.1, 4.3, 4.4, 4.6, 4.8, 4.14-4.21	Unregistered
78	S-128	7	7.2-7.4	Unregistered
79	S-128	8	8.1-8.6	Unregistered

IHO Definition: Classification of methods of communication over a distance by electrical, electronic, or electromagnetic means.

Data Dictionary Register

Home / GI REGISTERS / Data Dictionary Register

Feature Type: 0 | Information Type: 0 | Attribute Type: 1 | Complex Type: 0 | Enumeration Value: 0 | Codelist Value: 0

Feature Association: 0 | Information Association: 0 | Role: 0

Domain: ALL | Status: Valid | Attribute type: ALL

Category: Name | Telecommunication Ser

[Attribute] Dictionary Details	
Domain	IHO Hydro
Name	Telecommunication Service
CamelCase	telecommunicationService
Item Identifier	175 ?
Definition	Classification of methods of communication over a distance by electrical, electronic, or electromagnetic means.
Data type	enumeration



IHO

RESULTS OF THE CROSS CHECK

International Hydrographic Organization

3.The Cross Check of S-1xx FC

No.	Publications	Feature Catalogue Clause No.	Contents in S-1XX Feature Catalogue	Status
80	S-130	3.5	minimumDisplayScale (The feature catalogue uses the camelcase representation of the attribute, not the registered name.)	Registered
81	S-130	3.6	Numerical Identifier	Unregistered
82	S-130	3.10	Text Lat (Definition to be proposed to the IHO GI Registry for the next version.)	Unregistered
83	S-130	3.11	Text Lon (Definition to be proposed to the IHO GI Registry for the next version.)	Unregistered
84	S-130	3.12	Version (Definition to be proposed to the IHO GI Registry for the next version.)	Unregistered
85	S-130	4.2	Location Reference (Not in complex types, only in attribute types, that is, there are no sub-attributes) (Definition to be proposed to the IHO GI Registry for the next version.)	Unregistered
86	S-130	4.3	Source indication (Not in complex types, only in attribute types, that is, there are no sub-attributes)	Unregistered
87	S-130	8.1	Global Sea Area	Unregistered
88	S-131	4.32	Vessels Measurements	Unregistered

The screenshot shows the 'Data Dictionary Register' interface. At the top, there are several filter buttons: Feature Type (0), Information Type (0), Attribute Type (0), Complex Type (0), Enumeration Value (0), and Codelist Value (0). Below these are buttons for Feature Association (0), Information Association (0), and Role (0). There are also dropdown menus for Domain (ALL), Status (Valid), and Attribute type (ALL). A search bar contains the text 'minimumDisplayScale' and a magnifying glass icon. Below the search bar is a table with columns: Item ID, Name, Camelcase, Definition, Domain, Status, and Date Accepted. The table shows 'No matching records found'. Below the table are another set of filter buttons: Feature Type (0), Information Type (0), Attribute Type (1), Complex Type (0), Enumeration Value (0), and Codelist Value (0). Below these are buttons for Feature Association (0), Information Association (0), and Role (0). There are also dropdown menus for Domain (ALL), Status (Valid), and Attribute type (ALL). A search bar contains the text 'minimum Display Scale' and a magnifying glass icon. Below the search bar is a section titled '[Attribute] Dictionary Details' with the following information: Domain: IHO Hydro, Name: Minimum Display Scale (highlighted with a red box), CamelCase: minimumDisplayScale (highlighted with a red box), Item Identifier: 941 ?, Definition: The smallest intended viewing scale for the data., and Data type: integer.



4. The Cross Check of S-1xx FCs and S-100

- S-121 DCEG (e.g. attribute types) don't conform to S-100, as shown in the Figure.
- Other product specifications are in good conformity with S-100.

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IHO

RESULTS OF THE CROSS CHECK OF FEATURE CATALOGUES

5. Update the results of the review of S-1xx feature catalogues reported in DQWG18 to S-101 Ed 1.2.0.—S-101 and its DCEG

International Hydrographic Organization

No.	Classification	Feature Catalogue Clause No.	DCEG Clause No.	Inconsistencies type	Contents in Feature Catalogue	Contents in DCEG
1	S	3.80-3.83 , 3.94\3.166\3.168\3.198	27.79- 27.82,27.92\ 27.151\27.153\27.172	Inconsistent value types	The value type is S100_TruncatedDate.	The attribute type is Truncated Date.

Number	Name	Value type
3.80	Date Disused	S100_TruncatedDate
3.81	Date End	S100_TruncatedDate
3.82	Date Fixed	S100_TruncatedDate
3.83	Date Start	S100_TruncatedDate
3.94	Dredged Date	S100_TruncatedDate
3.166	Reference Year for Magnetic Variation	S100_TruncatedDate
3.168	Reported Date	S100_TruncatedDate
3.198	Swept Date	S100_TruncatedDate

27.80 date end (DATEND, PEREND, SUREND)

IHO Definition: DATE END. The latest date on which an object (for example a buoy) will be present.

Attribute Type: Truncated date

27.79 date disused

IHO Definition: DATE DISUSED. The date that an entity ceases to be used. (Adapted from S-4).

Attribute Type: Truncated date

27.80 date end (DATEND, PEREND, SUREND)

IHO Definition: DATE END. The latest date on which an object (for example a buoy) will be present.

Attribute Type: Truncated date



IHO

RESULTS OF THE CROSS CHECK OF FEATURE CATALOGUES

International Hydrographic Organization

5. Update the results of the review of S-1xx feature catalogues reported in DQWG18 to S-101 Ed 1.2.0.——S-101 and its DCEG

No.	Classification	Feature Catalogue Clause No.	DCEG Clause No.	Inconsistencies type	Contents in Feature Catalogue	Contents in DCEG
2	S	Example3.8	Example27.8	Inconsistent attribute types	All attributes of the text are text.	All attributes of the text are free text.

Number	Name	Value type
3.8	Call Sign	text
3.76	Communication Channel	text
3.78	Contact Instructions	text
3.84	Date Variable	text
3.90	Destination	text
3.99	File Locator	text
3.100	File Reference	text
3.107	Headline	text
3.118	Interoperability Identifier	text
3.122	Language	text
3.129	Linkage	text
3.141	MMSI Code	text
3.144	Name	text
3.145	Name of Resource	text
3.147	Nationality	text
3.155	Pictorial Representation	text
3.160	Radar Band	text
3.163	Reference Location	text
3.167	Regulation Citation	text
3.179	Signal Group	text
3.184	Source	text
3.189	Station Name	text
3.190	Station Number	text
3.194	Survey Authority	text
3.200	Telecommunication Identifier	text
3.202	Text	text
3.225	Vessel Class	text

27.8 call sign (CALSGN)

IHO Definition: **CALL SIGN**. The designated call-sign of a station (radio station Edition 3.1, Appendix A – Chapter 2, Page 2.9, November 2000 (as amended)).

Attribute Type: **Free Text**

27.76 communication channel (COMCHA)

IHO Definition: **COMMUNICATION CHANNEL**. A channel number a frequencies or frequency band. (S-57 Edition 3.1, Appendix A – Chapter 2, Page 2.9, November 2000 (as amended)).

Attribute Type: **Free text**

27.78 contact instructions

IHO Definition: **CONTACT INSTRUCTIONS**. Instructions provided organisation or service.

Attribute Type: **Free text**

27.83 date variable

IHO Definition: **DATE VARIABLE**. A day which

Attribute Type: **Free text**



5. Update the results of the review of S-1xx feature catalogues reported in DQWG18 to S-101 Ed 1.2.0.—S-101 and its DCEG

No.	Classification	Feature Catalogue Clause No.	DCEG Clause No.	Inconsistencies type	Contents in Feature Catalogue	Contents in DCEG
3	R	5.11		omission	Information provided for	N

Number	Role	Definition
5.11	Information provided for	A pointer to a specific feature(s) for which further information is required.

Number	Role
5.1	Positions
5.2	Supported by
5.3	Supports
5.4	Updates
5.5	Component of
5.6	Consists of
5.7	Has auxiliary
5.8	Auxiliary to
5.9	Defined for
5.10	Defines
5.11	Information provided for
5.12	Provides information
5.13	Identifies

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26.7	Identifies.....	598
26.8	Positions	598
26.9	Provides information.....	598
26.10	Supported by	598
26.11	Supports.....	599
26.12	Updates.....	599
27	Geo Feature Attribute and Enumerate Descriptions.....	600



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RESULTS OF THE CROSS CHECK OF FEATURE CATALOGUES

International Hydrographic Organization

5. Update the results of the review of S-1xx feature catalogues reported in DQWG18 to S-101 Ed 1.2.0.—S-101 and its DCEG

No.	Classification	Feature Catalogue Clause No.	DCEG Clause No.	Inconsistencies type	Contents in Feature Catalogue	Contents in DCEG
4	A	6.1	25.1	omission	Role reference include 5.11 informationProvidedFor	N

25.1 Additional information

Number	Association	Number	Role reference	Definition: ADDITIONAL INFORMATION . A feature association for the binding between at least one instance of a geo feature and an instance of an information type.
6.1	Additional information	5.11	informationProvidedFor	marks: • The features comprising an Additional Information association must include at least one of any of the geo features included in the following lists associated to one or more of the corresponding information types.
		5.12	providesInformation	

Role Type	Role	Associated With	Multiplicity
Association	Provides information	Contact Details, Non-Standard Working Day, Service Hours, Nautical Information	0,1
		Airport/Airfield, Anchor Berth, Anchorage Area, Berth, Bridge, Building, Checkpoint, Coast Guard Station, Conveyor, Crane, Dock Area, Dry Dock, Floating Dock, Gate, Helipad, Landmark, Lock Basin, Mooring Area, Production/Storage Area, Radio Calling-In Point, Runway, Seaplane Landing Area, Span Fixed, Span Opening	0,* {1,* [C]}
Role Type	Role	Associated With	Multiplicity
Association	Provides information	Contact Details, Nautical Information	0,1
		Administration Area, Cable Area, Cable Overhead, Cable Submarine, Cardinal Beacon, Cardinal Buoy, Daymark, Dolphin, Emergency Wreck Marking Buoy, Fishing Facility, Fog Signal, Harbour Area (Administrative), Harbour Facility, Installation Buoy, Isolated Danger Beacon, Isolated Danger Buoy, Land Region, Lateral Beacon, Lateral Buoy, Light All Around, Light Float, Light Sector, Light Vessel, Marine Farm/Culture, Mooring Buoy, Mooring Trot, Offshore Platform, Offshore Production Area, Pilot Boarding Place, Pipeline Overhead,	0,* {1,* [C]}



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5. Update the results of the review of S-1xx feature catalogues reported in DQWG18 to S-101 Ed 1.2.0.—S-101 and its DCEG

No.	Classification	Feature Catalogue Clause No.	DCEG Clause No.	Inconsistencies type	Contents in Feature Catalogue	Contents in DCEG
5	F	8.162	20.6	omission	Include association 6.7 AidsToNavigationAssociation	N

Number	Feature type	Number	Attribute or Role Type	Type	Feature Associations																									
8.162	Emergency Wreck Marking Buoy	3.6	buoyShape	S	<table border="1"> <thead> <tr> <th>S-101 Role</th> <th>Association Type</th> <th>Associated to</th> <th>Type</th> <th>Multiplicity</th> </tr> </thead> <tbody> <tr> <td>Supports</td> <td>Structure/Equipment (see clause 25.15)</td> <td>Daymark, Distance Mark, Fog Signal, Light All Around, Light Fog Detector, Physical AIS Aid to Navigation, Radar Transponder Beacon, Retroreflector, Signal Station Traffic, Signal Station Warning</td> <td>Association</td> <td>0,*</td> </tr> <tr> <td>Updates</td> <td>Updated Information (see clause 25.19)</td> <td>Update Information</td> <td>Association</td> <td>0,1</td> </tr> <tr> <td>Positions</td> <td>Text Association (see clause 25.16)</td> <td>Text Placement</td> <td>Association</td> <td>0,1</td> </tr> <tr> <td>Provides Information</td> <td>Additional Information (see clause 25.1)</td> <td>Contact Details, Nautical Information</td> <td>Association</td> <td>0,1</td> </tr> </tbody> </table>	S-101 Role	Association Type	Associated to	Type	Multiplicity	Supports	Structure/Equipment (see clause 25.15)	Daymark, Distance Mark, Fog Signal, Light All Around, Light Fog Detector, Physical AIS Aid to Navigation, Radar Transponder Beacon, Retroreflector, Signal Station Traffic, Signal Station Warning	Association	0,*	Updates	Updated Information (see clause 25.19)	Update Information	Association	0,1	Positions	Text Association (see clause 25.16)	Text Placement	Association	0,1	Provides Information	Additional Information (see clause 25.1)	Contact Details, Nautical Information	Association	0,1
S-101 Role	Association Type	Associated to	Type	Multiplicity																										
Supports	Structure/Equipment (see clause 25.15)	Daymark, Distance Mark, Fog Signal, Light All Around, Light Fog Detector, Physical AIS Aid to Navigation, Radar Transponder Beacon, Retroreflector, Signal Station Traffic, Signal Station Warning	Association	0,*																										
Updates	Updated Information (see clause 25.19)	Update Information	Association	0,1																										
Positions	Text Association (see clause 25.16)	Text Placement	Association	0,1																										
Provides Information	Additional Information (see clause 25.1)	Contact Details, Nautical Information	Association	0,1																										
		3.74	colour [m: {1, ∞}]	S																										
		3.75	colourPattern	S																										
		4.2	featureName [m: {0, ∞}]	C																										
		4.4	fixedDateRange	C																										
		3.118	interoperabilityIdentifier	S																										
		3.133	marksNavigationalSystemOf	S																										
		3.148	natureOfConstruction [m: {0, ∞}]	S																										
		3.161	radarConspicuous	S																										
		4.34	topmark	C																										
		3.224	verticalLength	S																										
		3.170	scaleMinimum	S																										
		4.9	information [m: {0, ∞}]	C																										
		3.155	pictorialRepresentation	S																										
			association	association	6.1 AdditionalInformation providesInformation 7.1 ContactDetails I																									
			aggregation	association	6.7 AidsToNavigationAssociation componentOf 8.120 ArchipelagicSeaLane F																									
			association	association	6.4 StructureEquipment supports 8.170 Daymark [m: {0, ∞}] F																									
			association	association	6.5 UpdatedInformation updates 8.9 UpdateInformation F																									
			association	association	6.14 TextAssociation positions 8.188 TextPlacement F																									



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RESULTS OF THE CROSS CHECK OF FEATURE CATALOGUES

International Hydrographic Organization

5. Update the results of the reported in DQWG18 to S-101 E

No.	Classification	Feature Catalogue Clause No.	DCEG Clause No.	Inconsistencies type	Content
6	F	8.179	21.5	omission	association

Feature Associations

S-101 Role	Association Type	Associated to	Type	Multiplicity
Supported by	Structure/Equipment (see clause 25.15)	Cardinal Beacon, Cardinal Buoy, Bridge, Building, Crane, Conveyor, Daymark, Dolphin, Emergency Wreck Marking Buoy, Fishing Facility, Floating Dock, Fortified Structure, Hulk, Installation Buoy, Isolated Danger Beacon, Isolated Danger Buoy, Landmark, Lateral Beacon, Lateral Buoy, Light Float, Light Vessel, Mooring Buoy, Offshore Platform, Pile, Pipeline Overhead, Pontoon, Pylon/Bridge Support, Safe Water Beacon, Safe Water Buoy, Shoreline Construction, Silo/Tank, Span Fixed, Span Opening, Special Purpose/General Beacon, Special Purpose/General Buoy, Wind Turbine, Wreck	Composition	0,1
Updates	Updated Information (see clause 25.19)	Update Information	Association	0,1
Positions	Text Association (see clause 25.16).	Text Placement	Association	0,1
Provides	Additional Information (see clause 25.17)	Nautical Information	Association	0,1

Number	Feature type	Number	Attribute or Role Type	Type
8.179	Radar Transponder Beacon	3.53	categoryOfRadarTransponderBeacon	S
		4.2	featureName [m: {0, ∞}]	C
		4.4	fixedDateRange	C
		3.118	interoperabilityIdentifier	S
		4.15	periodicDateRange [m: {0, ∞}]	C
		4.16	radarWaveLength [m: {0, 2}]	C
		4.21	sectorLimit	C
		3.179	signalGroup	S
		4.25	signalSequence [m: {0, ∞}]	C
		3.191	status [m: {0, ∞}]	S
		3.218	valueOfMaximumRange	S
		3.170	scaleMinimum	S
		4.9	information [m: {0, ∞}]	C
		association	association	→ 6.1 AdditionalInformation providesInformation → 7.4 NauticalInformation I
		composition	association	→ 6.4 StructureEquipment supportedBy → 8.31 Bridge F 8.153 LightAllAround F 8.170 Daymark F
		association	association	→ 6.5 UpdatedInformation updates → 8.9 UpdateInformation F
		association	association	→ 6.14 TextAssociation positions → 8.188 TextPlacement F
		aggregation	association	→ 6.13 RangeSystemAggregation componentOf → 8.100 RangeSystem F



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RESULTS OF THE CROSS CHECK OF FEATURE CATALOGUES

International Hydrographic Organization

5. Update the results of the review of S-1xx feature catalogues reported in DQWG18 to S-101 Ed 1.2.0.—S-101 and its DCEG

No.	Classification	Feature Catalogue Clause No.	DCEG Clause No.	Inconsistencies type	Contents in Feature Catalogue	Contents in DCEG
7	F	Example 8.30	Example 6.5	Inconsistent association features Example: association features of providesInformation	Contact Details	Contact Details, Non Standard Working Day, Service Hours, Nautical Information

Feature Associations				
S-101 Role	Association Type	Associated to	Type	Multiplicity
Updates	Updated Information (see clause 25.19)	Update Information	Association	0,1
Positions	Text Association (see clause 25.16).	Text Placement	Association	0,1
Provides Information	Additional Information (see clause 25.1)	Contact Details, Non-Standard Working Day, Service Hours, Nautical Information	Association	0,1

Number	Feature type	Number	Attribute or Role	Type	Number	Association	Role Ref	Number	Feature or Informat	Type
8.30	Helipad	3.77	condition	S						
		4.2	featureName [m: {0, ∞}]	C						
		3.148	natureOfConstruction [m: {0, ∞}]	S						
		4.15	periodicDateRange [m: {0, ∞}]	C						
		3.168	reportedDate	S						
		3.191	status [m: {0, ∞}]	S						
		3.170	scaleMinimum	S						
		4.9	information [m: {0, ∞}]	C						
			association	associati	6.1	AdditionalInformation	providesInformation	7.1	ContactDetails	I
			association	associati	6.5	UpdatedInformation	updates	8.9	UpdateInformation	F
			association	associati	6.14	TextAssociation	positions	8.188	TextPlacement	F



5. Update the results of the review of S-1xx feature catalogues reported in DQWG18 to S-101 Ed 1.2.0.—S-1xx and S-101 FCs

No.	Publications	S-1xx Clause No.	S-101 Clause No.	Contents in S-1xx Feature Catalogue	Contents in S-101 Feature Catalogue
1	S-111	3.2	4.27	surfaceCurrentSpeed	Speed

Number	Complex attribute	Number	Attribute	Type
4.27	Speed	3.186	speedMaximum	S
		3.187	speedMinimum	S

Number	Name	Value type
3.2	Surface current speed	Real

29.27 speed

IHO Definition: **SPEED**. Rate of motion. The terms **speed** and velocity are often used interchangeably, but **speed** is a scalar, having magnitude only, while velocity is a vector quantity, having both magnitude and direction. (Adapted from IHO Dictionary, S-32).

Indication: The complex attribute encodes the range of the **speed** at a location.

Sub-attributes: **speed maximum** see clause 27.165
speed minimum see clause 27.166

Remarks:

- No remarks.

1. Surface Current Speed (*surfaceCurrentSpeed*)

Surface Current Speed: IHO Definition: SPEED. Rate of motion. The terms speed and VELOCITY are often used interchangeably, but speed is a scalar, having magnitude only, while VELOCITY is a vector quantity, having both magnitude and direction.

Unit: knot (kn)

Minimum Resolution: 0.01 kn

Format: xxx.xx

Example: 2.54

Remarks:

- Valid speed always non-negative
- Negative number denotes land mask or missing value
- 0.01 kn equals 0.5144 cm/s



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RESULTS OF THE CROSS CHECK OF FEATURE CATALOGUES

International Hydrographic Organization

5. Update the results of the review of S-1xx feature catalogues reported in DQWG18 to S-101 Ed 1.2.0.—S-1xx and S-101 FCs

No.	Publications	S-1xx Clause No.	S-101 Clause No.	Contents in S-1xx Feature Catalogue	Contents in S-101 Feature Catalogue
2	S-129	3.6	3.135	maximumDraught	Maximum Permitted Draught

Number	Name	Value type
3.6	Maximim Draught	real

Number	Name	Value type
3.135	Maximum Permitted Draught	real

maximumDraught	The maximum ship draught in meters, used as base for the calculation
----------------	----------------------------------------------------------------------

27.124 maximum permitted draught

IHO Definition: **MAXIMUM PERMITTED DRAUGHT**. The maximum draught of a vessel permitted along a route, in a channel or dock, at a berth, or over a submerged feature.

Attribute Type: Real

Unit: Defined as an attribute in the ENC dataset metadata: metre (m)

Resolution: 0.1m

Format: xx.x

Example: 14.5 for a maximum permitted draught of 14.5 metres

Remarks:

- No remarks.



5. Update the results of the review of S-1xx feature catalogues reported in DQWG18 to S-101 Ed 1.2.0.—S-1xx and S-101 FCs

No.	Publications	S-1xx Clause No.	S-101 Clause No.	Contents in S-1xx Feature Catalogue	Contents in S-101 Feature Catalogue
3	S-129	3.17	3.83	Time Start	Date Start
4	S-129	3.18	3.81	Time End	Date End
5	S-129	4.1	4.4	Fixed Time Range	Fixed Date Range

Number	Name	Value type
3.18	Time End	dateTime

Number	Name	Value type
3.17	Time Start	dateTime

Number	Complex attribute	Number	Attribute	Type
4.1	Fixed Time Range	→ 3.17	<i>TimeStart</i>	S
		→ 3.18	<i>TimeEnd</i>	S

Number	Name	Value type
3.81	Date End	S100_TruncatedDate

Number	Name	Value type
3.83	Date Start	S100_TruncatedDate

Number	Complex attribute	Number	Attribute	Type
4.4	Fixed Date Range	→ 3.81	<i>dateEnd</i>	S
		→ 3.83	<i>dateStart</i>	S



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RECOMMENDATIONS

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It is recommended to:

- a) Feedback to S-1xx developers respectively.
- b) Continue the cross check of FCs of new and amended S-1xx.
- c) Invite other product specifications (e.g. S-421) to join in the review.



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ACTIONS REQUESTED FROM THE SUBWG

International
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The DQWG is requested to:

- a.Note** the information provided;
- b.Approve** the recommendations above.