Title: S-98 Annex C ECDIS Legend

S-100 Maintenance - Change Proposal Form

Organisation	NIWC	Date	10/11/2023
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Change Proposal Type (Select only one option)

1.Clarification	2.Correction	3.Extension
X	X	

Location (Identify all change proposal locations)

S-100 Version No.	Part No.	Section No.	Proposal Summary
S-98 Annex C 1.1	-	C-12.10.3 ECDIS Legend	Clarify and correct entries as shown in attached redlines.

Change Proposa	ange Pro	posal
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The	attached	redlines	are i	intended to	clarify /	correct	S-98	Annex C	requirements	related to
the	ECDIS le	gend.								
		-								

Change Proposal Justification

The proposed	changes	align the	requirements	with t	the	current	data	model	and	clarify	some
imprecise .											

What parts of the S-100 Infrastructure will this proposal affect?

 □ S-100 Feature Concept Dictionary Interface or Database □ S-100 Portrayal Register □ S-100 Feature Catalogue Builder □ S-100 Portrayal Catalogue Builder □ S-100 UML Models 	
□ S-100 Feature Catalogue Builder□ S-100 Portrayal Catalogue Builder	S-100 Feature Concept Dictionary Interface or Database
□ S-100 Portrayal Catalogue Builder	S-100 Portrayal Register
,	S-100 Feature Catalogue Builder
☐ S-100 UML Models	S-100 Portrayal Catalogue Builder
	S-100 UML Models

Please send completed forms and supporting documentation to the secretary S-100WG. $\label{eq:complete} % \begin{array}{c} \text{Secretary Secretary S$

S-100 Change Proposal Form (Updated April 2016)

12-1.1.1 ECDIS Legend

ECDIS Legend Values

depth

The ECDIS chart legend containing the following elements should be available for display of values derived from at the position selected by the Mariner. Table C-1 indicates which ENC data elements should be used.

NOTE: The legend is currently described in terms of elements of the Dataset Identification (DSID) record in dataset headers in the ISO 8211 encoding as well as dataset discovery metadata because neither the dataset header nor discovery metadata contain all the elements of the legend.

Item	74.1400				
Units for depth	Axis Unit of Measure (AXUM) subfield in the Coordinate System Axes (CSAX) field				
Units for height	Units for height				
not allow any uni	oth and height: although the S-101 ENC Product Specification does ts other than metres for depths and heights, these two elements or clarity for the Mariner				
Scale of display	Selected by mariner				
Data quality indicator	(a) <u>verticalUncertainty-uncertainty-Fixed</u> (SOUACC)zoneOfConfidence.categoryOfZoneOfConfidenceInData (CATZOC) attribute of the Quality Of Bathymetric Data (M_QUAL) meta-feature.				
	NOTE: When multiple temporal attributes are present:				
	 If a single attribute value is valid for the selected viewing date range, that value should be displayed. If multiple values are valid for the selected viewing date range, the worst-case value should be displayed. 				
	NOTE 2: When multiple features are present (to indicate bathymetric data quality at various depths):				
	 The feature which intersects the specified safety contour value should be used. 				
	(b) Total horizontalPositionUncertainty:uncertaintyfixed (POSACC) attribute of the Quality Of Non-Bathymetric Data (M_ACCY) meta-feature if available.				
Note: Due to the v	vay quality is encoded in the ENC, both values (a and b) should be				
Sounding/vertica I datum	The soundingDatum and verticalDatum fields of the dataset discovery metadata in the exchange catalogue, or the verticalDatum attribute of the SoundingDatum feature and VerticalDatum feature when available.				
	(verticalDatum attributes of individual features should not be used for the legend.)				
Horizontal datum	WGS84				
Value of safety	Selected by Mariner. Default is 30 metres				

Commented [GDM(CUNAV1]: Clarifies that legend is not displayed at a selected position; the selected position is used to populate the values displayed.

Commented [GDM(CUNAV2]: Consistent with S-52

Commented [GDM(CUNAV3]: Clarifies requirement when multiple features / attribute values are available.

Commented [GDM(CUNAV4]: The variable uncertainty should be taken into account.

 $\begin{tabular}{ll} \textbf{Commented [GDM(CUNAV5]:} Exchange catalogue doesn't contain these fields. \end{tabular}$

ECDIS Legend Item	Values
Value of safety contour	Selected by Mariner. Default is 30 metres
	er has selected a contour that is not available in the ENC and the a default contour, both the contour selected and the contour pe quoted
Magnetic variation	MagneticVariation (MAGVAR) feature, attributes: referenceYearForMagneticVariation (RYRMGV), valueofAnnualChangeInMagneticVariation (VALACM), and valueOfMagneticVariation (VALMAG) Item should be displayed as: VALMAG RYRMGV (VALACM) For example, 4°15W 1990 (8'E)
Date and number of latest update affecting chart datasets currently in use	Issue date and update number from the dataset discovery record (S100 DatasetDiscoveryMetadata) of the last update dataset applied. (See S-100 Part 17)
Edition number and date of the ENC	Edition number and issue date from the dataset discovery record (S100 DatasetDiscoveryMetadata) of the current base issue of the ENC dataset. (See S-100 Part 17)
Chart projection	Projection used for the ECDIS display (For example, oblique azimuthal). This should be appropriate to the scale and latitude of the data in use

Table C-1 - Legend elements

The list above is the minimum that should be available, but the complete list need not always be shown. Individual items may be picked by the mariner for display for a period; examples are magnetic variation, data quality for depths, etc.

Commented [GDM(CUNAV6]: Clarifies schema element

Commented [GDM(CUNAV7]: Clarifies schema element