

Paper for Consideration by NIPWG XML Workshop**NtM Chart correction conventions, list of potential XML tags**

Submitted by:	BSH
Executive Summary:	A summary of issues detected based on HO's Chart corrections
Related Documents:	NIPWG 5-43.1, HSSC 10-05.3A
Related Projects:	Best practice on XML based chart production

Introduction / Background

Based on paper NIPWG 5-43.1, NIPWG approached HSSC9 to seek approval on conducting an XML workshop to progress the development of a common XML structure for chart related Notices to Mariners. This intention was appreciated by HSSC9. HO's highlighted that a harmonised provision of NtM chart corrections impacts positively the data exchange between neighbouring countries and between other interested HO's.

References

NIPWG 5-43. XML Structure of NtM

Analysis/Discussion

HO's have either started the XML based provision of NtM chart corrections or they are intending to replace their current NtM production ways by XML based provision of NtM chart corrections.

The challenge in the development of a common XML structure is the different provision of chart corrections. Some HO's provide a correction which is related to a particular chart and which will be repeated for each chart affected. Other HO's provide a correction of the issue and list all charts affected. Both versions have pro and cons. A harmonised provision of chart correction is not the workshop objective. Rather, it is intended to define a universal XML structure which can be used to produce individual output layouts.

For efficiency sake the workshop should be prepared as best as possible in advance. BSH has done research on the NtM XML versions which have been submitted recently and collected a set of xml tags which might be useful, see Annex A. The different provision of both chart and issue related correction based on one single XML is also presented in Annex A.

Furthermore, a list of generic conventions and points which could be resolved beforehand has been collected, see Annex B.

Action Requested of NIPWG-XML workshop

The NIPWG-XML workshop is invited to:

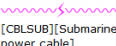
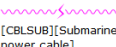
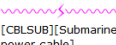
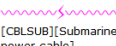
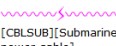
- a. Note this paper.
- b. Provide comments and additions to the list if deemed necessary.

Annex A List of possible XML tags

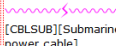
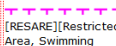
XML-Tag	Full term	Description
HeaderData		
PublishedBy		
Issue		
InstructionRow		
InstructionId		
Crs		List of reference systems
t_or_p		
Region		To be provided as a predefined list
Subregion		To be provided as a predefined list based on selected "Region"
Vicinity		Free text
Instruction		insert/delete/replace/add/relocate
Symbol1		
Symbol1PortrayalGph	Symbol 1 Portrayal Graphic	
Symbol1PortraylTxt	Symbol 1 Portrayal Text	
SymbolLabel1	Additional text to symbol	
Text1		
Symbol2PortrayalGph	Symbol 2 Portrayal Graphic	
Symbol2PortraylTxt	Symbol 2 Portrayal Text	
SymbolLabel2		
Text2		
GeometryType		Point/Polyline/Polygon
Locations		
Location		
Latitude		
Degrees		
Minutes		
Decimals		
Hemisphere		N/S
Longitude		
Degrees		
Minutes		
Decimals		
Hemisphere		E/W
ChartsAffected		
ChartData		
Prefix		
Infix		
Suffix		
IntNumber		
Last correction		
SourceIndication		
notice_status		Published/???
prod_last_corre		
Last correction type		
Last correction number		
Last correction year		
sea_area		
sea_area_name		
name_fi		
name_en		
name_sv		

update_structure		
panel		
datum		
verb		
object		"the accompanied block."

Chart related provision of corrections

#4 DE1210	North Sea.German Bight.Elbe Approach Reede									
INT Last Ntm: 45/2017	Insert								54°04,89'N	7°44,95'E
		[CBLSUB][Submarine power cable]								
										WSA Cuxhaven 107/17
#4 DE1210	North Sea.German Bight.Elbe Approach Reede									
INT Last Ntm: 45/2017	Insert								54°04,88'N	7°45,06'E
		[CBLSUB][Submarine power cable]								
										WSA Cuxhaven 107/17
#4 DE1250	North Sea.German Bight.Elbe Approach Reede									
INT Last Ntm: 45/2017	Insert								54°04,89'N	7°44,95'E
		[CBLSUB][Submarine power cable]								
										WSA Cuxhaven 107/17
#4 DE1250	North Sea.German Bight.Elbe Approach Reede									
INT Last Ntm: 45/2017	Insert								54°04,88'N	7°45,06'E
		[CBLSUB][Submarine power cable]								
										WSA Cuxhaven 107/17
#4 DE1250	North Sea.German Bight.Elbe Approach Reede									
INT Last Ntm: 45/2017	Insert								54°04,75'N	7°45,40'E
		[CBLSUB][Submarine power cable]								
										WSA Cuxhaven 107/17

Issue related provision of corrections

#4	North Sea.German Bight.Elbe Approach Reede											
	Insert								54°04,89'N	7°44,95'E	DE1210	DE1250
		[CBLSUB][Submarine power cable]							54°04,88'N	7°45,06'E	DE1210	DE1250
									54°04,75'N	7°45,40'E	DE1250	
												WSA Cuxhaven 107/17
#5	Baltic Sea.Waters around Ruegen.Strelasund											
(P)	Insert								54°19,20'N	13°05,40'E	DE1622	
		[RESARE][Restricted Area, Swimming Area]							54°20,28'N	13°06,36'E	DE1622	
									54°20,34'N	13°05,22'E	DE1622	
									54°20,55'N	13°05,45'E	DE1622	
									54°19,20'N	13°05,40'E	DE1622	
												WSA Stalsund 288/17

Annex B

Discussion item(s) which might be resolved beforehand

- XML or GML, the latter will have benefits if the production of NtM should be based on Hydrographic Production Systems, it also simplifies and standardises the provision of positions/locations

List of generic conventions

- No style information inside XML
- Enable Multilingualism
- Use of external files/databases
 - for metadata (Interface to catalogue (xlink, xpointer) to avoid redundant data)
 - for information which is usually listed (e.g. regions, correction instructions, hemisphere)
- INT1 based symbol catalogue
- Provision of an INT1/textual description of INT1 symbols lookup table