



16th Meeting of the Hydrographic Services and Standards Committee

Report of the Nautical Cartography Working Group

Agenda Item HSSC16-05.4A

HSSC-16, Tokyo, Japan, 27 – 31 May 2024



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MAIN TASKS OF NCWG

International
Hydrographic
Organization

- Maintain and extend S-4 [A]
- Develop new and revised symbology [D]
- Maintain INT1, INT2, INT3 [E]
- Maintain and extend S-11 Part A [B]
- Provide technical assistance to other IHO working groups and support regarding the implementation of S-100 Product Specifications [H]
- Conduct meetings of NCWG [G]



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MEMBERSHIP AND MEETINGS

International
Hydrographic
Organization

- Membership
 - 29 Member States
 - 8 Expert Contributor Organizations
- Chair
 - Mr Mikko Hovi (FI)
- Vice Chair
 - Mr Nick Rodwell (UK)
- Secretary
 - Ms Patricia Sheatsley (Esri)
- Meetings [G]
 - NCWG9, 27 Nov - 01 Dec 2023, Taunton, UK
 - Next meeting NCWG10, 12 - 15 November 2024, Monaco





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MAINTAIN AND EXTEND S-4, DEVELOPMENT OF NEW (AND REVISED) SYMBOLOGY [A,D]

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- S-4 Edition 4.9.0 published, March 2021
 - Available in English, French and Spanish
- Clarifications currently in finalization
 - Clarification on depth resolution and rounding rules (B-422.10)
 - Clarification on the use of abbreviation DGNSS (B-481.4)
 - A remaining reference to DGPS changed to DGNSS
 - Clarification on the guidance on ZOC classification (B-297.9)
 - Erroneous footnote references fixed



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MAINTAIN AND EXTEND S-4, DEVELOPMENT OF NEW (AND REVISED) SYMBOLOGY [A,D]

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- Revisions currently in finalization
 - Revised guidance on oil/gas platform jackets (B-422.10, B-445.1h)
 - Revised guidance on charting regions (A-204)
 - Boundary change between charting regions B and C1 (A-204.8)
 - Removal of names of co-ordinator countries from A-204.8
 - Revised guidance on PA and PD (B-120, B-422, B-424, C-404.3)
 - PA and PD merged to PA
 - Revised guidance on charting marine radio beacons (B-480)
 - Aeromarine Radiobeacons marked obsolete and no longer charted
 - Revised guidance on International Abbreviations (B-120)
 - New abbreviations for statute mile (SM) and yard (yd)



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MAINTAIN AND EXTEND S-4, DEVELOPMENT OF NEW (AND REVISED) SYMBOLOGY [A,D]

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- Topics under consideration for new and revised guidance include
 - Swept Depths
 - Migration routes of marine mammals
 - Questions raised through S-101 liaison
 - waterfalls
 - restricted area of type 'Power-driven Vessels Prohibited'
 - anchorages
 - Questions related to simplification of paper chart portrayal
 - portrayal of 'Container Terminal' and 'Commercial Port'
 - portrayal of 'Fishing by Trawling Prohibited' and 'Seabed Activities Prohibited'
 - new International Abbreviation for 'Waiting Area'
 - minefields
 - mooring areas
 - ZOC diagrams in colour



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MAINTENANCE OF S-4 SUPPLEMENTARY PUBLICATIONS INT 1, 2 & 3 [E]

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- INT1 [E1]
 - English version (UK), Edition 8, November 2020
 - Revision of UK version of Section V is ongoing.
Consideration for international adoption pending. [E9]
 - French version (FR), Edition 7, April 2019
 - Spanish version (ES), Edition 7, April 2022
- INT2, Edition 4, 2007 (NL)
 - NL investigating a possible discrepancy between INT2 and S-4 regarding font use in neatlines
- INT3, Edition 5, 2011 (UK)



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MAINTAIN AND EXTEND S-11 PART A [B]

International
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- Edition 3.1.0, February 2018
- Updating of Section 200 *Guidance for the Preparation and Maintenance of ENC Schemes* to incorporate S-101 in progress
 - Ref HSSC15/54
 - Target NCWG10 → HSSC17



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MAINTAIN AND EXTEND S-11 PART A [B]

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- NCWG10 supported a proposal from WENDWG to extend S-11 Part A with new guidance on *Coordination and Management of the Development of S-100 Data Services in RHCs*
 - Ref NCWG9-05.15A, HSSC15/54
 - Excludes S-101 that will be included in S-11 Part A Section 200
- Development and maintenance would be assigned to WENDWG by IRCC
 - As the new section would be a WENDWG document it is proposed that new S-11 Part C is created instead of a new Section 300 in S-11 Part A
 - S-11 Part A will remain under NCWG
- HSSC is requested to endorse the development of new S-11 Part C – *Guidelines for the Coordination and Management of the Development of S-100 Electronic Navigational Data Services (other than S-101 ENC)s* by WENDWG
 - Ref IRCC16-07D



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BASELINE SYMBOLOGY PROJECT TEAM [E11, E10]

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- Colour definitions

- Submitted for NCWG Review (ref NCWG Letter 05/2024)



- Symbols

- Symbol library originally provided by UKHO has been converted to S-100 compliant SVG symbols and the PT is reviewing the results

- To do

- Line styles
- Portrayal Rules



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LIAISON WITH OTHER WGS AND PTS ON S-100 PS [H]

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- S101PT
 - NCWG10 considered several questions from S-101PT's Portrayal Subgroup related to S-101 portrayal
- S129PT
 - Draft S-129 portrayal has been out for review through NCWG Letter 03/2024



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HSSC15 ACTIONS

International Hydrographic Organization

4.1, 4.2	A-3	HSSC15/05	Decision A3/09b (gender inclusivity): WGs to implement it, if appropriate, at their next revision of their TORs.	Permanent	In progress
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work is subject to HSSC approval.

3. **Composition and Chairmanship**

a) The WG shall comprise representatives of IHO Member States (MS). Expert

- HSSC is requested to approve the change in section 3 title (“Chairmanship” to “Chair”) in NCWG TORs



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HSSC15 ACTIONS

International
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5.4A	From S-101 to Paper Chart	HSSC15/46 (former HSSC14/54a, HSSC13/43)	HSSC noted the adoption of the Terms of Reference of the Baseline Symbology Project Team (led by CA) under the NCWG aiming to support the automated production of paper charts from S-101 data and requested to provide a project plan asap	NCWG9 HSSC-16	
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- Project plan provided at HSSC15 (ref HSSC15-05.4A Annex A)



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HSSC15 ACTIONS

International
Hydrographic
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5.4C, 5.4D	Future of Nautical Charts	HSSC15/52	HSSC tasked the NCWG to study the proposal by Germany to consider the need for a new standard for paper chart corrections (such as NtM XML format) and if so to propose amendments to the relevant section(s) of S-4 as appropriate.	NCWG-9 (Nov 2023)	Considered at NCWG9 under agenda 05.7A.
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- Considered at NCWG9
 - No clear need for was recognized, but some members requested more time to explore the concept
- Discussion will continue at NCWG10



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PROBLEMS ENCOUNTERED

International
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- Vacant Secretary position – **Now filled**
 - Having no secretary for almost 2 years started to impact the working group
 - It will take still some time to clear the backlog



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ACTIONS REQUESTED FROM HSSC

International
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Organization

1. Note this report
2. Approve the Work Plan for 2024-25 as in Annex A
3. Endorse the development of new S-11 Part C by WENDWG
4. Approve the change in section 3 title (“Chairmanship” to “Chair”) in NCWG TORs

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