

**9TH MEETING OF THE HYDROGRAPHIC SERVICES AND STANDARDS COMMITTEE
Ottawa, Canada, 6-10 November 2017**

Paper for Consideration by HSSC

Status Report on IHO Publications on Standards, Specifications and Guidelines

Submitted by:	IHO Secretariat
Executive summary:	This document provides a brief description of the status of all IHO publications on standards, specifications and guidelines, under HSSC responsibility, as of October 2017.
Related Documents:	IHO Resolution 2/2007 as amended; IHO Publication P-6 - EIHC-5 Report of Proceedings - CONF.EX5/REP.02, Appendix 2; IHO Resolution 12/1962 as amended; Final Minutes of HSSC8 (Paragraph 10 and action HSSC8/75).
Related Projects	None.

Background

1. As in previous years, a report on the current status of IHO publications under HSSC's responsibility is provided to HSSC-9, further drawing attention to the edition in force for each publication and to any plan for a new edition and translation. The summary report is at Annex A.

Analysis

2. Following the presentation of the status report on IHO Publications at HSSC8, the Committee invited further comments by correspondence regarding the next edition dates and possible requirements and contributions for translation in French and/or Spanish (see action HSSC8/75). At the 14th Conference of the Eastern Atlantic Hydrographic Commission held from 18 to 20 October 2016, in Cádiz, Spain, the IHB/IHO Secretariat received the confirmation from the Hydrographer of Spain that his intention is to continue contributing, on a case-by-case basis, to the translation of IHO technical standards into Spanish.

3. Since HSSC-8 in November 2016, the following new editions, highlighted in **green** in Annex A, have been published:

- S-4 *Regulations for INT Charts and IHO Chart Specifications* – Edition 4.7.0 – July 2017 [English, French and Spanish]. The French version of S-4 is maintained by the IHO Secretariat and Ed. 4.7.0 – July 2017 was published in October 2017.
- S-11 Part A - *Guidance for the Preparation and Maintenance of International (INT) Chart and ENC Schemes* [English, French]
 - Edition 3.0.0 – June 2017
- S-11 Part B *International Chart Web Catalogue – Edition 3.0.33 – Sep 2017* is composed of:
 - Region A – NW Atlantic & NE Pacific Oceans – Edition 3.0.0 – January 2016
 - Region B – Meso-America & Caribbean Sea – Edition 3.0.1 – February 2017
 - Region C1- SW Atlantic - Edition 3.0.2 - February 2017

- Region C2 – SE Pacific – Edition 3.0.0 – January 2016
- Region D – North Sea - Edition 3.0.5 – June 2017
- Region E - Baltic Sea - Edition 3.0.7 – September 2017
- Region F – Mediterranean & Black Seas - Edition 3.0.3 - Sep 2017
- Region G – NE Atlantic - Edition 3.0.3 – November 2016
- Region H - SE Atlantic & SW Indian Ocean - Edition 3.0.4 – August 2017
- Region I - NW Indian Ocean - Edition 3.0.1 – June 2017
- Region J - North Indian Ocean - Edition 3.0.2 – August 2017
- Region K - East Asia & NW Pacific Ocean - Edition 3.0.0 – January 2016
- Region L - SE Indian Ocean & SW Pacific - Edition 3.0.2 – August 2017
- Region M - Southern Ocean - Edition 3.0.4 - August 2017
- Region N - Arctic Ocean - Edition 3.0.0 – January 2016
- Region 1:10M - Arctic Ocean - Edition 3.0.0 – January 2016

With the commissioning of the S-11 Part B GIS database and associated web services, all the editions of the regional databases of S-11 Part B were made available early January 2016 as of Ed. 3.0.0. Since, most of them have been updated.

- S-52 (Annex A to) *IHO ECDIS Presentation Library* [English only]
 - Edition 4.0(.2) – October 2014 – with clarifications up to July 2017 [English]
- S-58 *ENC Validation Checks* [English only]
 - Edition 6.0.0 – May 2017 [English], to enter into force on 1 June 2018.
- S-64 *IHO Test Data Sets for ECDIS* [English only]
 - Edition 3.0.2 – July 2017 [English]
- S-65 *Electronic Navigational Charts (ENCs) “Production, Maintenance and Distribution Guidance”*
 - Edition 2.1.0 – May 2017 [English, Spanish]
- S-100 *IHO Universal Hydrographic Data Model* [English only]
 - Edition 3.0.0 – April 2017 [English]

4. At the time of writing this paper, it should be noted that the following new Revisions [English] are being submitted to the 1st Meeting of the IHO Council for endorsement, prior to being forwarded to Member States for approval:

- S-11 - Part A - *Guidance for the Preparation and Maintenance of International (INT) Chart and ENC Scheme*
 - Draft Edition 3.1.0 – Month 2017
- S-57 Appendix B.1, Annex A - *Use of the Object Catalogue for ENC*
 - Draft Edition 4.1.0 – Month 2017
- S-66 - Facts about Electronic Charts and Carriage Requirements
 - Draft Edition 1.1.0 – Month 2017

5. Information on possible future editions to be considered by HSSC has been included in the table at Annex A, mainly taken from the work plans contained in WG Chairs’ reports. The current

translation plans (in French and in Spanish), are given in the table at Annex A for further consideration (highlighted in **yellow**).

6. Information on the latest IHO Standards that apply to ECDIS Equipment and the latest IHO Standards that apply to ENC Production and Distribution has been updated since HSSC-8 and is available on the IHO website > [ENCs&ECDIS](#) >.

Recommendations

7. Based on the above analysis, it is recommended to:
- a. Review the information provided in the table in Annex A and consider whether any adjustment is needed.
 - b. Consider possible requirements and contributions for translation in French and/or Spanish.
 - c. If deemed necessary, consider possible improvements and adjustments on the information provided for the latest IHO Standards that apply to ECDIS Equipments.

Action required of HSSC

8. The HSSC is invited to:
- a. **note** this report;
 - b. **consider** the recommendations in paragraph 7, and
 - c. **take** any action as appropriate.

Annex A

IHO Publications under HSSC responsibility or supervision
Summary of Status (as at 15 Oct. 2017)

- Notes: a) All the standards and guidelines are subject to the amendments and approval procedures set out in IHO Resolution 2/2007 as amended unless indicated otherwise.
 b) TBD = to be decided/defined, TBC = to be confirmed.
 c) **New** Editions or Publications since HSSC-8.
 d) Highlighted in **yellow**: suggestions or proposals to be considered at HSSC-9.

Number	Title	Responsibility ¹	English Current Edition - Date	Submitted / referred to HSSC-9	English Next Edition	French Current Edition - Date	Spanish Current Edition - Date
S-4	<i>Regulations of the IHO for International (INT) Charts and Chart Specifications of the IHO</i>	NCWG	4.7.0 - July 2017			4.7.0 - Jul. 2017	4.7.0 - Jul. 2017
INT 1	<i>Symbols, Abbreviations and Terms used on Charts</i>	NCWG	8 - July 2015	-	-	6 - March 2016	5 - Nov. 2015
INT 2	<i>Borders, Graduations, Grids and Linear Scales</i>	NCWG	4 - 2007 ²		Not planned	4 - 2007 ²	4 - 2007 ²
INT 3	<i>Use of Symbols and Abbreviations</i>	NCWG	5 - Dec 2011		Not planned	Not planned	Not planned
S-11 Part A	<i>Guidance for the Preparation and Maintenance of International Chart Schemes</i>	NCWG	3.0.0 - June 2017	Draft Ed. 3.1.0 - at C-1		3.0.0 - June 2017	--
S-11 Part B	<i>Catalogue of INT Charts - Introduction</i>	[NCWG]/RHCs/IHO Sec.	Various 3.0.33 Sep. 2017	--	--	--	--

¹ In accordance with the current structure of HSSC WGs.

² Trilingual Publication.

Number	Title	Responsibility ¹	English Current Edition - Date	Submitted / referred to HSSC-9	English Next Edition	French Current Edition - Date	Spanish Current Edition - Date
S-12	<i>Standardization of List of Lights and Fog Signals</i>	NIPWG	1 – Jun 2004		TBD	1 – Jun 2004	--
S-32	<i>Hydrographic Dictionary</i>	HDWG	5 - 1994	HSSC9-05.8A	2020 ³	5 - 1998	5 - 1996
S-32 App. 1	<i>Glossary of ECDIS-Related Terms</i>	HDWG	Sep 2007 ⁴		Not planned	Reported as translated in HSSC6-05.9A	Sep 2007
S-32 online		HDWG	Always current		In progress	In progress	In progress
S-44	<i>IHO Standards for Hydrographic Surveys</i>	--	5 – Feb 2008	HSSC9-05.6A	6.0 - 2019	5 – Feb 2008 (rev 5.0.1 – Jun 2011) TDB	5 – Feb 2008 TBD
S-49	<i>Standardization of Mariners' Routeing Guides</i>	NIPWG	2.0 – Apr 2010		Not planned	2.0 – avril 2010	Not planned
S-52	<i>Specifications for Chart Content and Display Aspects of ECDIS</i>	ENCWG	6.1.(1) – Oct 2014 (June 2015)		Not planned	Not planned	Not planned
S-52 Annex A	<i>IHO ECDIS Presentation Library</i>	ENCWG	4.0.(2) – Oct 2014 (July 2017)		Not planned	Not planned	Not planned
S-52 App. 1	<i>Guidance on Updating the ENC</i>	ENCWG	4.0.0 – Apr 2012		Not planned	Not planned	Not planned
S-57	<i>IHO Transfer Standard for Digital Hydrographic Data</i>	ENCWG	3.1 – Nov 2000		Not planned	Not planned	Not planned

³ The online version was issued in 2004 (CL 13/2004 refers) and made available in wiki format in 2010 (CL 7/2010 refers). No formal decision has been taken concerning future pdf editions.

⁴ S-32 App. 1 will be removed from the web after inclusion of the terms in S-32 online.

Number	Title	Responsibility ¹	English Current Edition - Date	Submitted / referred to HSSC-9	English Next Edition	French Current Edition - Date	Spanish Current Edition - Date
S-57 Suppl.	<i>Supplementary Information for the Encoding of S-57 Edition 3.1 ENC Data</i>	ENCWG	Suppl 3 – Jun 2014		Not planned	Not planned	Not planned
S-57 App. B.1	<i>ENC Product Specification</i>	ENCWG	2.0 – Nov 2000		Not planned	Not planned	Not planned
S-57 App. B.1 Annex A	<i>Use of the Object Catalogue for ENC (UOC)</i>	ENCWG	4.0.0 – Jun 2014		4.1.0 at C-1	Not planned	Not planned
S-58	<i>ENC Validation Checks</i>	ENCWG	5.0.0 – Jun 2014		6.0.0 – May 2017 (to enter into force June 2018)	Not planned	Not planned
S-60	<i>User's Handbook on Datum Transformations involving WGS 84</i>	IHO Sec	3 – Jul 2003		Not planned	Not planned	Not planned
S-61	<i>Product Specification for Raster Navigational Charts (RNC)</i>	ENCWG	1 – Jan 1999		Not planned	Not planned	Not planned
S-62	<i>List of Data Producer Codes</i>	IHO Sec	Always current		Not applicable	Bilingual version to be developed	Not planned
S-63	<i>IHO ENC Data Protection Scheme</i>	S-100WG&ENCWG	1.2.0 – Jan 2015			1.1.1 – Apr 2012	Not planned
S-64	<i>IHO Test Data Sets for ECDIS</i>	ENCWG	3.0.2 – July 2017				
S-65	<i>ENC Production Guidance</i>	ENCWG	2.1.0 May 2017			2.0.0 – Apr 2012 TDB	2.1.0 May 2017
S-66	<i>Facts about Electronic Charts and Carriage Requirements</i>	HSSC S-66 Project Team	1.0.0 – Jan 2010	Draft Ed. 1.1.0 at C-1	Ed. 1.1.0 – Jan 2018?	Planned	1.0.0 – Jan 2010

Number	Title	Responsibility ¹	English Current Edition - Date	Submitted / referred to HSSC-9	English Next Edition	French Current Edition - Date	Spanish Current Edition - Date
S-99	<i>Operational Procedures for the Organization and Management of the S-100 Geospatial Information Registry</i>	S-100WG	1.1.0 – Nov 2012		2018	TBD ⁵	Not planned
S-100	<i>IHO Universal Hydrographic Data Model</i>	S-100WG	3.0.0 – Apr 2017	HSSC9-05.1A	Draft Ed. 4.0.0 (2019)	Not planned	Not planned
S-101	<i>ENC Product Specification</i>	S-100WG	--	HSSC9-05.1A	Draft Ed. 1.0.0 – 2019	--	--
S-102	<i>Bathymetric Surface Product Specification</i>	S-100WG	1.0.0 – Apr 2012	HSSC9-05.1A	Draft Ed. 2.0.0 – 2018	Not planned	Not planned
S-103	<i>Sub-surface Navigation</i>	TBD					
S-111	<i>Surface currents</i>	TWCWG		HSSC9-05.7A	2018		
S-112	<i>Real-time tidal data</i>	TWCWG		HSSC9-05.7A	?		
S-121	<i>Maritime limits and boundaries</i>	TBD		HSSC9-05.1A	2018		
S-122	<i>Marine Protected Areas</i>	NIPWG			1.0.0 – 2018?		
S-123	<i>Radio Services</i>	NIPWG			1.0.0 - 2018?		
S-124	<i>Navigational warnings</i>	WWNWS			2018?		
S-125	<i>Navigational services</i>	NIPWG					
S-126	<i>Physical Environment</i>	NIPWG					
S-127	<i>Traffic Management</i>	NIPWG			2018?		
S-128	<i>Catalogue of Nautical Products</i>	NIPWG			?		
S-12x	<i>Marine Services</i>	NIPWG			?		
S-1x	<i>Digital Mariner Routeing Guide</i>	NIPWG			?		
S-1x	<i>Harbour Infrastructure</i>	NIPWG			?		

⁵ To be considered with the development of a bilingual version (EN/FR) of the S-100 GI Registry.

Number	Title	Responsibility ¹	English Current Edition - Date	Submitted / referred to HSSC-9	English Next Edition	French Current Edition - Date	Spanish Current Edition - Date
S-1x	<i>(Social/Political)</i>	NIPWG			?		
S-xx	<i>Digital Tide Tables</i>	TWCWG			?		
S-411	<i>Sea-Ice</i>	WMO-IOC JCOMM Expert Team on Sea Ice	1.1.0 Jun 2014		Not planned		
S-412	<i>Met Ocean Forecasts</i>	NOAA/NWS	Draft May 2014				
C-51	<i>A Manual on Technical Aspects of the United Nations Convention on the Law of the Sea - 1982</i>	ABLOS	5.0.0 – Jun 2014		2018?	Ed. 5.0.0 planned Dec. 2016	4 – Mar 2006 Not planned
M-3	<i>Relevant Resolutions</i>	All	Ed. 2, 2010, updated to June 2017			Ed. 2, 2010, updated to June 2017	Ed. 2, 2010, updated to March 2017