

LIST OF DECISIONS & ACTIONS ARISING FROM HSSC-11

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AGENDA ITEM	SUBJECT	ACTION No.	ACTIONS (in bold, action by)	TARGET DATE/EVENT	STATUS (at 17 May 2019)
1. Opening and Administrative Arrangements					
	Contact List	HSSC11/01	IHO Member States and Stakeholders to provide the IHO Sec. with their updates to the HSSC List of Contacts.	Permanent	Last update 16 May 2019
	Attendance	HSSC11/02	HSSC Members to consider the possibility of limiting the number of their delegates at HSSC meetings (up to 2 in addition to WGs' office bearers, in any) and to register in accordance with the deadlines set up in the IHO CL announcing the meeting.	Permanent	
	Election of Vice-Chair	HSSC11/03	HSSC agreed to postpone the election of Vice-Chair on the last day, agreed on the voting procedure and welcomed the election of Mr Magnus Wallhagen (Sweden) as Vice-Chair.		Decision
2. Approval of Agenda					
	Agenda and Timetable for HSSC-11	HSSC11/04	HSSC approved the agenda and associated timetable with minor changes (ABLOS report to be delivered at the beginning of day 2).		Decision
3. Matters arising from Minutes of 10th HSSC Meeting					
	E-navigation implementation	HSSC11/04 (Former HSSC8/05, HSSC9/03, HSSC10/04)	ENCWG and S-100WG to monitor any possible impact of the work on the agreed e-navigation outputs on ECDIS related standards and S-100 related standards respectively.	HSSC-12	
	S-101&IMO Performance Standards	HSSC11/05 (Former HSSC8/19, HSSC9/04, HSSC10/05)	S-100WG (supported by IEC) invited to investigate if S-101 ENCs will meet the current IMO Performance Standards so there is no need to consider proposing amendments to the IMO and report to IHO Secretariat.	1 Sep 2019	

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	Equivalent T&Ps for ENCs	HSSC11/06 (Former HSSC8/28, HSSC9/62, HSSC10/06)	<p>NCWG and ENCWG to draft a single educative IHO authoritative document addressing the issue of “equivalent” T&Ps for ENCs, in view of its distribution to HOs, Port State Control authorities and mariners after approval.</p> <p>Proposal prepared and submitted by IHO Secretariat during HSSC-11 to be considered by NCWG and ENCWG.</p> <p>Final consolidated version of the document to be made available on the IHO website by IHO Secretariat.</p>	<p>15 June 2019</p> <p>15 July 2019</p>	
4. HSSC Administration					
4.1	Strategic Plan	HSSC11/07	HSSC Chair (supported by HSSC WGs’ Chairs, IHO Sec.) to provide the SPRWG Chair (Copy to IRCC Chair) with an input paper on the Future Strategic Plan.	27 May/IRCC-11	
4.3	S-100 Implementation Strategy	HSSC11/08	Based on HSSC Chair’s presentation and proposals on the S-100 Implementation Strategy, HSSC WGs Chairs to provide their inputs/contribution to the HSSC Chair.	10 June 2019	
			HSSC Chair to provide HSSC contribution to the Secretary-General, Council and IRCC Chairs.	1 July 2019	
4.3	S-100 Master Plan	HSSC11/09	When the S-100 Implementation Strategy is finalized as an official IHO document, S-100WG to consider submitting a proposal by which this Strategy supersedes the S-100 Master Plan.	HSSC-12/HSSC-13	

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4.8	S-100 Implementation Strategy – S-98	HSSC11/10	S-100 Test Strategy Meeting (TSM) in liaison with IEC , to develop Ed.1.0.0 of S-98 further, taking into account the recommendations provided in Doc. HSSC11-04.8A, the possibilities offered by the development of back-of-bridge/front-of-bridge concepts, and provide inputs as appropriate for the development of the S-100 Implementation Strategy, if possible prior to C-3.	S-100TSM7 (Sept 2019) 15 July 2019	
4.4	S-100 showcase	HSSC11/11	S-100WG/S-101PT/HSSC WGs’ Chairs/IRCC/HOs/RENCs to consider how they can support the showcase at C-3, and report to S100WG Chair (Coordinator of the showcase), noting that this showcase should highlight the front-of-bridge/back-of-bridge possible concepts. Outline of the showcase ready.	1 June 2019 10 July 2019	
4.4	S-100 showcase	HSSC11/12	Contributors/participants in the showcase to provide their draft presentations and input to the S-100WG Chair (Cc HSSC Chair/IHO Sec.) .	1 September 2019	
4.4	S-100 showcase	HSSC11/13	S-100WG Chair in liaison with HSSC and IRCC Chairs/IHO Sec. to finalize the showcase presentations.	End of September 2019	
4.5	IHO Resolution 2/2007	HSSC11/14	HSSC endorsed the final consolidated version of the IHO Resolution 2/2007 and reviewed its appendixes.		Decision
4.5	IHO Resolution 2/2007	HSSC11/15	Noting that the Resolution needs to be endorsed by IRCC as well, IHO Sec. to submit HSSC final proposal for endorsement at IRCC-11... ...and then IHO Sec. to issue a CL to IHO Member States seeking their approval on the amendments to IHO Resolution 2/2007.	15 May 2019 1 July 2019	
5. Reports by HSSC Working Groups					
5.1 S-100 (S-100WG)					

AGENDA ITEM	SUBJECT	ACTION No.	ACTIONS (in bold, action by)	TARGET DATE/EVENT	STATUS (at 17 May 2019)
5.1	S-100 Ed.5.0.0 and Ed.4.0.0	HSSC11/16	HSSC noted the proposed deadlines for S-100 Edition 5.0.0 proposals and agreed to shift this Ed. 5.0.0 to 2021, if necessary... ...while tasked the HSSC WGs to consider moving Editions of their S-1xx product specifications to be aligned with S-100 Ed. 4.0.0.	HSSC-12	Decision
5.1	S-97	HSSC11/17	HSSC approved Ed. 1.0.0 of S-97 and noted the additional editing needed as part of the process to prepare Ed. 2.0.0.		Decision
5.1	S-98	HSSC11/18	S-100WG to pursue the development of Ed. 1.0.0 of S-98 as part of the S-100 Implementation Strategy (see Actions HSSC11/10 above) with the aim to submit Ed. 1.0.0 for endorsement in 2020/2021.	HSSC-12/-13	
5.1	S-102	HSSC11/19	HSSC endorsed Ed. 2.0.0 of S-102. IHO Sec. to issue a CL to IHO Member States seeking their approval on Ed. 2.0.0 of S-102.	July 2019	Decision
5.1	S-121	HSSC11/20	HSSC encouraged the S-121PT, under the management of the S-100WG Chair , to pursue the development of Ed. 1.0.0. of S-121 <u>in accordance with HSSC Rules of Procedures and IHO Resolution 2/2007</u> and make it available for testing and experimentation when appropriate.		Decision
5.1	S-121	HSSC11/21	HSSC took note of the concerns raised by India, Turkey, and the Republic of Korea on S-121. HSSC encouraged these IHO Member States to participate in the S-100 WG review process of S-121.	20 June 2019	Decision
5.1	S-121	HSSC11/22 (former HSSC10/18)	S-100WG/S-121PT to keep HSSC Chair/Sec updated on the progress made on the development of S-121 according to the timelines and milestones given at HSSC-11.	From May 2019 until HSSC-12	See also <u>Article dated 27 Nov 2018 in Hydro International</u>
5.1	S-129	HSSC11/23	HSSC approved Ed. 1.0.0 of S-129 for testing and experimentation.		Decision

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5.1	WMO, S-4xx	HSSC11/24	HSSC agreed to allocate to the WMO, S-413 to <i>Weather and Waves Conditions</i> and S-414 to <i>Weather and Waves Observations</i> .		Decision
5.1	S-101	HSSC11/25	HSSC agreed that the first revision Ed. 1.1.0 of S-101 is expected in Dec. 2020. S-100WG Chair to provide the HSSC Chair with the matrix showing the updated timelines of S-101.	HSSC-12 10 July	Decision
5.1	Technical Readiness Levels – S-97	HSSC11/26	HSSC endorsed the concept of S-100 Technical Readiness Levels... ...and tasked S-100WG to incorporate it into S-97 as Ed. 1.x.x, then as Ed. 2.0.0.	HSSC-12	Decision
5.1	S-100 Cloud Distribution	HSSC11/27	HSSC commended Canada for its presentation on “cloud distribution” and noted the proposal to develop further the concept of cloud distribution for S-100 based products. Noting that a joint proposal sponsored by the US, to develop WEND-like principles will be made at IRCC-11, HSSC Chair to suggest at IRCC-11 that the WENDWG should be tasked to investigate the “cloud distribution” concept, subject to the extension of the WENDWG scope to S-101 ENCs and other S-100 based products, if agreed at IRCC-11.	IRCC-11	
5.1	S-100 Data Protection Scheme	HSSC11/28	HSSC WGs ’ developing S-100 based products to test the data protection scheme developed by the S-100WG Data Protection supported by the RENCs Project Team, and report as appropriate. IHO Sec. in liaison with PRIMAR/RENCs to prepare the implementation procedure to act as S-100 Protection Scheme Administrator.	HSSC-12 HSSC-12	

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5.1	Test Bed Platform	HSSC11/29	HOs to provide KHOA (s100testbed@korea.kr) with S-100 based products test datasets as appropriate so they can be visualized on the new Test Bed Platform.	Permanent	
5.2 ENC Standards Maintenance (ENCWG)					
5.2	High Density Bathymetry ENC's	HSSC11/30 (Former HSSC9/22 and HSSC10/24)	ENCWG to identify the individual components in S-57 (file size, etc.) that prevent ENC Producers from providing high density contour lines and propose subsequent recommendations.	ENCWG4/HS SC-12	In progress
5.2	S-52, S-63 and S-64	HSSC11/31	HSSC endorsed the proposed clarifications for the S-52, S-63 and S-64 standards for publication. IHO Sec. to subsequently publish the corresponding clarifications on the IHO website > Standards and Publications.	Sep 2019	Decision
5.2	S-57 UOC	HSSC11/32	HSSC endorsed the proposed revision to the S-57 UOC (see also Action HSSC11/42 on MARPOL).		
5.2	S-58 Ed.6.1.0 datasets	HSSC11/33	IHO Sec to inform the IHO Member States that S-58 datasets that are planned to come into force on 1 Sep 2019, are now available.	July 2019	
5.3 Nautical Information Provision (NIPWG)					
5.3	INT-1	HSSC11/34	HSSC confirmed that the development and maintenance of an INT1 “.svg” based symbol repository, as defined, is assigned to the NCWG , but noted the subsequent comments made by the NCWG Chair that this task cannot be simply addressed for multiple reasons (resources, national versions of INT-1 symbols, ...), as well as the US comment on Chart-1.		Decision
5.3	NtM XML Workshop	HSSC11/35	HSSC supported the need for the conduction of a final follow-up XML workshop. Possible venues are Genoa or Monaco.		Decision

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5.3	Maritime Services, e-navigation	HSSC11/36	HSSC tasked the responsible HSSC WGs [and will invite also the IRCC/WWNWS-SC] to review the initial descriptions of “ <i>Maritime Services in context of e-navigation</i> ” under their remit and to provide them to NIPWG for further action if appropriate.	Permanent	
5.3	M-3, IHO Resolution <i>Time Reference</i>	HSSC11/37	HSSC endorsed the proposed amendments to Resolution 7/2009 - <i>Time Reference</i> - ... IHO Sec. to issue a CL to IHO Member States seeking their approval on the new amendments on IHO Resolution 7/2009.	July 2019	Decision
5.3	E-Nav, IMO/IHO Harmonization Group on Data Modelling (HGDM), Maritime Services	HSSC11/38 (former HSSC10/30)	IHO Sec. to develop an appropriate presentation of e-Navigation information on the IHO website incl. the place of the IMO Maritime Service Template.	HSSC-12	On-hold due to IHO website revamp
5.3	Survey on S-122, and S-123	HSSC11/39	HSSC Chair agreed to seek the agreement of IRCC for a survey to be managed by NIPWG , seeking information from Member States to indicate their intention to produce S-122 and S-123 data sets in the future. NIPWG to anticipate the agreement from IRCC and run the survey.	HSSC-12	Decision
5.3	Naming of S-100 based products	HSSC11/40	HSSC agreed on the naming (or renaming) of S100 based products under the remit of NIPWG as follows: S-122 (Marine Protected Area) S-123 (Marine Radio Services) S-125 (Marine Navigational Services) S-126 (Marine Physical Environment) S-127 (Marine Traffic Management) S-128 (Catalogue of Nautical Products).		Decision
5.3	S-127	HSSC11/41	HSSC approved Ed.1.0.0 of S-127 for testing and experimentation.		Decision

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5.3	S-57 UOC, MARPOL	HSSC11/42	Based on the submission made by the US (Doc. HSSC11-05.1G refers), ENCWG (in liaison with NCWG ¹) to consider the possibility of developing an S-57 UOC covering MARPOL regulations, and its applicability to different scale bands.	ENCWG4	
	MARPOL	HSSC11/43	Following the lessons learned from the development of this UOC, and its practical implementation, S-100WG/NIPWG to consider whether or not it is appropriate to further develop a new Product Specification covering not only MARPOL regulations but also other IMO regulations.	HSSC-13	
5.4 Nautical Cartography (NCWG)					
	IHO Resolution 1/2005 as amended	HSSC11/44	India to submit a proposal to NCWG on a way to address some requirements of the IHO Resolution 1/2005 (Response to Disasters) aiming to incorporate emergency contact numbers on charts.	NCWG-5	
	INT-1	HSSC11/45	HSSC noted the discontinuation of the maintenance of INT-1 (English version) by Germany... ...and invited NCWG to investigate the possible options and consequences for the future of the 3 INT-1 versions (English, French, Spanish), investigations should include, a web service version of this publication making benefit of the S-100 Portrayal Registry, freezing the current versions, or the hand-over by another HO.	NCWG5 / HSSC-12	<u>Decision</u>

¹ See S-4, B-437.5 as useful reference.

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	Future of Paper Chart	HSSC11/46	In addition to comments already provided by Australia, Canada, Germany, France, UK, US, HSSC Members to provide comments/inputs if any to NCWG on the preliminary report on the Future of the Paper Chart, as well as on the proposed survey. NCWG/IHO Sec./Member States to undertake the actions as proposed by the NCWG on the future of the paper chart, including the survey (Doc. HSSC11-05.4B, slide 4, refers).	23 May 10 June / NCWG5 / HSSC-12	
	From ENC to Paper Chart	HSSC11/47	NCWG to anticipate the need to consider the proposals made at HSSC-11 on the automated production of paper charts from ENCs at its next meeting.	NCWG-5	
	Portrayal	HSSC11/48	S-100WG, ENCWG, NCWG, and NIPWG to develop a harmonized portrayal process for S-98.	HSSC-12	
5.5 Data Quality (DQWG)					
5.5	DQWG TORs	HSSC11/49	HSSC approved the proposed amendment to the DQWG, so the DQWG can also support IRCC WGs and Sub-Committees (MSDIWG, S-124PT, CSBWG for instance) on request.		Decision
	Visualization of Quality of Bathymetric Data	HSSC11/50	HSSC commended the DQWG for the work carried out on the development of the conditional visualization <i>methodology</i> of quality of bathymetric data... ...and encouraged this development to be pursued in liaison with S-100WG Chair, NCWG, NIPWG, ENCWG, S-101PT , involving if possible academia, training centres, expert contributors and industry partners (for testing and implementation experimentations).	HSSC-12	Decision

AGENDA ITEM	SUBJECT	ACTION No.	ACTIONS (in bold, action by)	TARGET DATE/EVENT	STATUS (at 17 May 2019)
	Visualization of Quality of Bathymetric Data	HSSC11/51	HSSC Chair to raise the awareness of IHO Member States at IRCC-11 on the existence of the provisional recommendations made by the DQWG on the visualization <i>methodology</i> of quality of bathymetric data.	IRCC-11	
5.6 Project Team on Standards for Hydrographic Surveys (HSPT)					
5.6	Support to HSPT	HSSC11/52	IHO Sec. agreed to consider the continuation of its support to the HSPT as requested but recommended that HSPT meetings should take place in Monaco, as far as possible, in order to facilitate this support.		<u>Decision</u>
5.6	6 th Edition of S-44	HSSC11/53	HSSC agreed on the recommendation made by HSPT that the final draft version 1.x.x of the 6 th Edition of S-44 should be circulated to all stakeholders, prior to submission for endorsement to HSSC.	June 2019	
5.6	6 th Edition of S-44	HSSC11/54	HSPT to submit final proposed version 2.0.0 of 6 th Edition of S-44 to HSSC for endorsement, with the aim to submit it to IHO Member States for approval by July 2020.	HSSC-12 (- 7 weeks) July 2020	
5.6	6 th Edition of S-44	HSSC11/55	HSSC approved the principle of having a contest for designing the cover page of 6 th Edition.		<u>Decision</u>
5.6	Future of HSPT, towards a HSWG	HSSC11/56	HSSC took note of the proposal to move HSPT to HSWG but invited HSPT, after completion of the 6 th Edition, to submit a formal proposal on the different options for the future of HSPT at the next HSSC meeting iaw HSPT TORs 2 (iii).	HSSC-12	
5.7 Tides, Water Level and Currents (TWCWG)					
5.7	Digital Tide and Tidal Current Tables	HSSC11/57	HSSC endorsed the proposed IHO Resolution on Standard for Digital Tide and Tidal Current Tables. IHO Sec. to issue an IHO CL seeking the approval of IHO Member States on this proposed Resolution.	July 2019	<u>Decision</u>

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		HSSC11/58	HSSC encouraged the IHO Member States to consider participating in the tidal data archaeology project led by the TWCWG.	HSSC-12	
5.8 Hydrographic Dictionary (HDWG)					
	S-32	HSSC11/59	HSSC commended the HDWG supported by the IHO Secretariat for the work done on the development of the new S-32 Hydrographic Dictionary (www.iho-ohi.net/S32) ² .		Decision
	S-32	HSSC11/60	HSSC agreed on the need to consider removing the S-32 IHO Hydrographic Dictionary database from the list of publications covered by IHO Resolution 2/2007, as amended. IHO Sec. to report on this at the next meeting.	HSSC-12	Decision
	Participation in HDWG	HSSC11/61	ES and RU to consider the possibility of appointing a member to the HDWG.	Sept. 2019	
	Submissions of new terms to the Hydrographic Dictionary	HSSC11/62	HSSC noted the availability of the HDWG template to be used by WGs when submitting new terms to the Hydrographic Dictionary on the HDWG webpage.		Decision
	S-32 Management	HSSC11/63	HSSC encouraged harmonization of the S-32 IHO Hydrographic Dictionary database with the IHO GI Registry through the Concept Registry Domain Control Body, in which the HDWG should participate. S-99 to be amended accordingly.	HSSC-12	Decision
6. Inter-Organizational Bodies					
6.1 IHO-IAG Advisory Board on the Law of the Sea (ABLOS)					
	ABLOS TORs	HSSC11/64	HSSC approved the proposed amendments to the TORs of ABLOS.		Decision
	TALOS Manual Ed. 6.0.0	HSSC11/65	HSSC endorsed the Ed. 6.0.0 the TALOS Manual... IHO Sec. to issue an IHO CL seeking the approval of IHO Member States.	Oct. 2019	Decision

² Still under development.

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7. Decisions of other bodies affecting HSSC					
7.1 IRCC (incl. MSDIWG)					
	Undersea Feature Names	HSSC11/66	HSSC noted the proposals made by SCUFN/UFN PT, but agreed to put them on hold for the time being due to other priorities, leaving also more time to SCUFN and its UFN PT to consolidate the proposals and better assess the practical consequences on their implementation.	HSSC-12	Decision
7.2 IMO					
	Maritime Services	HSSC11/67	HSSC noted the expectation that the description of Maritime Services, in the context of e-navigation, be periodically updated taking into account developments and related work on harmonization (See also Action HSSC11/36).		Decision
	Maritime Autonomous Surface Ships	HSSC11/68	HSSC agreed that the IHO should be involved in the development of MASS concepts (for instance, as supporting organization identified in the IMO MASS work plan, in particular to raise the importance of data quality factors for autonomous navigation, etc.)... ...and invited HSSC Members/IHO Member States to consider the ways and means to provide expertise to the IMO Intersessional WG on MASS activities.	Sep. 2019/ HSSC-12	Decision
7.3 IALA					
	S-2xx	HSSC11/69	HSSC thanked IALA for its participation in the meeting and noted the information related to the development of S-2xx products.		Decision
7.4 IEC					

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	S-63	HSSC11/70 (former HSSC10/54)	ENCWG to develop a draft proposal for mitigation measures for cyber security, to liaise with the CIRM Cyber Risk Management WG / IEC and make an impact assessment and further investigations, so HSSC can consider the need for updating S-63.	ENCWG-4/HSSC-12	On going
	S-100 data authentication, quality assurance	HSSC11/71 (former HSSC10/55)	S-100WG/DQWG to continue the development of recommendations (incl. mitigations measures) and monitoring of cyber security and quality assurance issues as reported by IEC/INTERTANKO.	HSSC-12	On going
		HSSC11/72	HSSC thanked the IEC representative for his active participation in various IHO meetings and stakeholders' forum, and noted the information provided.		
7.5 CIRM					
		HSSC11/73	HSSC noted the CIRM presentation and recommendations.		
7.6 ISO					
7.7 OGC					
		HSSC11/74	HSSC welcomed the offer made by OGC to HOs , who wish to participate in OGC TC meetings under the IHO-OGC MoU (contact: Mr Scott Simmons in HSSC List of Contact), as well as in OGC Marine Domain Working Group (no registration fee for IHO Member States).		
		HSSC11/75	HSSC noted the OGC presentation and recommendations.		
7.8 ICPC					
	ICPC Charting WG	HSSC11/76	HSSC noted the establishment of the ICPC Charting Working Group as a mean of meeting IHO-ICPC MoU and Road Map objectives,		

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	International Seabed Authority, Deep Sea Mining	HSSC11/77	Noting the existence/availability of shp files providing deep sea mining licenced fields, HSSC/IRCC/IHO Sec. to investigate with ISA the appropriateness to include designated mining boundaries in MSDI portals (datasets), and if yes, who can take the lead.	IRCC-11/HSSC-12	
7.9 DGIWG and NATO GMWG					
		HSSC11/78	HSSC noted the presentations.		
8. Review of new developments and other information papers					
		HSSC11/79	HSSC invited HSSC Members to take note of the information papers available on the HSSC-11 webpage.		Decision
	Magnetic observations and drifting of the North Pole	HSSC11/80	HSSC noted the presentation made by France on the moving of the North Magnetic Pole, and invited ENCWG to consider this topic to be included in its work plan. IHO Resolution on magnetic observations was reminded.		
9. Review and Endorsement of HSSC Work Plan and List of Actions					
	Work Programme	HSSC11/81	HSSC approved the amendments proposed by the HSSC WGs and PTs' Chairs to their Work Plans. IHO Sec. to upload the consolidated version of the HSSC Work Plan accordingly.	June 2019	Decision
10. Date & Location of the next meetings					
	IHO Stakeholders' Forum	HSSC11/82	HSSC agreed to convene an IHO Stakeholders' Forum in conjunction with HSSC-12, to be focused on navigation systems.	HSSC-12	
	HSSC-12 HSSC-13 HSSC-14	HSSC11/83	HSSC welcomed the confirmation from UK for hosting HSSC-12 (Bristol, 11-15 May 2020), Indonesia for its offer to host HSSC-13 in Bali, in May 2021, as well as Finland, for proposing Helsinki, in May 2022 for HSSC-14.		Decision