S-100WG2-4 and ENCWG2-4A

2ND S-100 WORKING GROUP (S-100WG) MEETING

GENOA, ITALY (15-18 MARCH 2017)

LIST OF DECISIONS & ACTIONS ARISING FROM HSSC-8

AGEN ITE		ACTION No.	ACTIONS (in bold, action by)	TARGET DATE/EVENT	STATUS (at 24 Jan 2017)
1.	Opening and Admi	nistrative Arrangeme	nts		
	Contact List	HSSC8/01 (Former HSSC7/01)	IHO Member States and Stakeholders to provide the IHO Sec. with their updates to the HSSC List of Contacts.	Permanent	Last update 16 Nov 2016
2.	Approval of Agend	a			
	Deadlines for submission of proposals		HSSC reiterated the timelines fixed by the Instructions for the Submission of Reports and Proposals for Consideration by HSSC and agreed to decide the consideration of late submissions, on a case-by-case basis.		Decision
3.	Matters arising from	n Minutes of 7th HSS	C Meeting		
	S-1xx Portraya Issues	1 HSSC8/03 (Former HSSC7/18)	NCWG to compile portrayal requirements relating to product specifications in general as part of its programme of work.		On going

AGEN ITE		ACTION No.	ACTIONS (in bold, action by)	TARGET DATE/EVENT	STATUS (at 24 Jan 2017)
	S-122 test beds	HSSC8/04 (Former HSSC7/20)	For S-122 (<i>Marine Protected</i> <i>Areas</i>), and assuming that sufficient information is available, NIPWG , in liaison with NCWG and S-100WG, to make use of test beds opportunities (e-navigation projects as appropriate).		On going
	E-navigation implementation	HSSC8/05 (Former HSSC7/37)	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.		On-going
4.	HSSC Administration				
4.1	Input from HSSC to t	0			Desision
	IHO Strategic Plan	HSSC8/06	HSSC endorsed the proposals for the revision of the IHO Strategic Plan as reported in IHO CL 31/2016 and ACL 10 without any further inputs.		Decision
4.2	Input from HSSC to t				
	IHO 3-year Work Programme	HSSC8/07	HSSC endorsed the proposals reported by the HSSC Chair Group in HSSC8-04B.		Decision
4.3	Preparation of the HS				
		HSSC8/08	HSSC approved the proposed outline of the HSSC Report to A- 1.		Decision

AGENDA ITEM	SUBJECT	ACTION No.	ACTIONS (in bold, action by)	TARGET DATE/EVENT	STATUS (at 24 Jan 2017)
		HSSC8/09	HSSC endorsed the principles of the changes proposed in PRO-6 by ROK, related to IHO Res. 2/2007, and recommended that they be considered alongside a more holistic review taking into account the impacts on all parties involved.		Decision
		HSSC8/10	HSSC decided on arrangements/timeline for the completion of the HSSC report and agreed on the key messages to the A-1.		Decision
	oorts by HSSC Wo	rking Groups			
5.1 5-1	00 (S-100WG)	HSSC8/11	 HSSC endorsed the draft Edition 3.0.0 of S-100. S-100WG Chair to provide a redline version and a clean copy to the IHO Secretariat. IHO Sec. to issue a CL to IHO Member States seeking their approval of the draft Edition 3.0.0 of S-100. 	15 Dec. 2016 End of Dec. 2016	Decision
		HSSC8/12	IHO Sec. in liaison with S- 100WG to promote the operational status of the IHO S- 100 Registry.	End of Dec. 2016	On going

AGENDA ITEM	SUBJECT	ACTION No.	ACTIONS (in bold, action by)	TARGET DATE/EVENT	STATUS (at 24 Jan 2017)
		HSSC8/13	HSSC invited KHOA to consider supporting further development of S-100 Registers (Product Spec. and Data Producer Code Registers) and stabilization of the Feature Concept Dictionary and Portrayal Registers.	Dec. 2016	On going Feedback expected at S-100WG2
		HSSC8/14	 HSSC decided to establish: a Cross-Domain Control Body and an Executive Control Body for the IHO Registry, and an Expert Group for the HYDRO domain, 		Decision
			and invited the S-100WG to propose their membership and TORs accordingly.	HSSC-9	
		HSSC8/15	S-100WG , NIPWG to submit formal requests to the IHO Sec., through the HSSC Chair, for financial support from the IHO special project fund for the relevant items of their respective work plans.	NIPWG-3, S-100WG-2	On-going

AGENDA ITEM	SUBJECT	ACTION No.	ACTIONS (in bold, action by)	TARGET DATE/EVENT	STATUS (at 24 Jan 2017)
		HSSC8/16	HSSC requested the S-121 Project Team (Maritime Limits and Boundaries) to abide by its TORs and the current work plan agreed at HSSC-7, and to submit a draft Product Spec. for consideration by the S-100WG (by end of March 2017). Extension of the Product Spec. to be considered in the future, after approval of Ed. 1.0.0 of S-121 (Maritime Limits and Boundaries).	March 2017	On-going
		HSSC8/17	HSSC allocated S-129 to the Product Spec. on Under Keel Clearance Management (UKCM) information and invited INTERTANKO to participate in the UKCM PT.		Decision
		HSSC8/18	FR invited to submit a proposal to the S-100WG on using Resource Description Framework (RDF) semantic web standards for further S-100 developments.	S-100WG2 , then report to HSSC-9	
	S-101&IMO Performance Standards	HSSC8/19 (Former HSSC7/06)	S-100WG 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.	S-100WG2	

AGENDA ITEM	SUBJECT	ACTION No.	ACTIONS (in bold, action by)	TARGET DATE/EVENT	STATUS (at 24 Jan 2017)
	S-101&IMO Performance Standards	HSSC8/20	HSSC to revisit the discussion on the above issue at an ECDIS/E- navigation Stakeholder Day after NCSR-4, subject to the outcome of the proposal to activate the IMO/IHO Harmonization Group on Data Modelling (HGDM).	HSSC-9	
5.2 Data	a Protection Schen	ne (DPSWG)			
	Protection Scheme	HSSC8/21	 HSSC decided to disband the DPSWG and to transfer to the S- 100WG the development of the protection scheme (S-63 equivalent component) of S-100 based-products (amendment to the Work Plan made accordingly). HSSC decided to task the ENCWG for the maintenance and monitoring of the existing S-63 standard (amendment to the ENCWG TORs and Work Plan made accordingly). 	End of Nov. 2016	Decision
	Staffing and support	HSSC8/22	S-100WG and ENCWG in liaison with the DPSWG (former) Chair to report on the resources and profiles necessary to address the work items in both groups, and define work packages that could be possibly out-sourced.	HSSC-9	
5.3 ENG	C Standards Main	tenance (ENCWG)			

AGENDA ITEM	SUBJECT	ACTION No.	ACTIONS (in bold, action by)	TARGET DATE/EVENT	STATUS (at 24 Jan 2017)
	S-65, S-66	HSSC8/23	 HSSC endorsed the principles of the revision of S-65 and S-66. ENCWG Chair to provide a redline version and a clean copy of the new draft Editions to the IHO Secretariat. IHO Sec. to issue a CL to IHO Member States seeking their approval of the new draft Editions accordingly. 	By the end of Nov. 2016	Decision
	S-58	HSSC8/24	HSSC endorsed the principles of the new edition of S-58.		Decision
			 ENCWG Chair to provide a red- line version and a clean copy of the new draft Edition to the IHO Secretariat, including a proposal for the date of entry-into-force taking into account feedbacks received from industry, RENCs and ENC Producers. IHO Sec. to issue a CL to IHO Member States seeking their approval of the new draft Edition accordingly. 	By the end of Dec. 2016	On going
	ECDIS Chart 1, S-52	HSSC8/25	HSSC endorsed the ENCWG proposal to use ECDIS Chart 1 for checking ECDIS operating with Edition 4.0 of the IHO S-52 Presentation Library.		Decision

AGENDA ITEM	SUBJECT	ACTION No.	ACTIONS (in bold, action by)	TARGET DATE/EVENT	STATUS (at 24 Jan 2017)
	ECDIS Chart 1, S-52	HSSC8/26	IHO Sec. in liaison with ENCWG Chair to revise the IHO webpage on "ECDIS Data Presentation and Performance Check in Ships", to include the ECDIS Chart 1 procedure and to issue a media release.	End of Dec. 2016	Done
	High density contour lines ENCs	HSSC8/27	HSSC agreed to initiate some work regarding bENCs, exploring various existing options, under a new task and work item of the ENCWG.	HSSC-9	
	Equivalent T&Ps for ENCs	HSSC8/28	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.	March/May 2017 Submission to HSSC-9	
5.4 Nau	itical Information	Provision (NIPWG)			
	S-122, S-123	HSSC8/29	HSSC endorsed the development schedules proposed by NIPWG with a high priority for S-122 (<i>Marine Protected Areas</i>) and S- 123 (<i>Radio Services</i>).		Decision
	Regulatory Information	HSSC8/30	HSSC decided not to proceed with the development of Product Spec. for Regulatory Information until further requests from IMO.		Decision
	Ecological Marine Units	HSSC8/31	MSDIWG invited to consider the concept of Ecological Marine Units promoted by ESRI.	HSSC report to IRCC-9	

AGENDA ITEM	SUBJECT	ACTION No.	ACTIONS (in bold, action by)	TARGET DATE/EVENT	STATUS (at 24 Jan 2017)				
5.5 Nau	5.5 Nautical Cartography (NCWG)								
	NCWG TORs	HSSC8/32	HSSC approved the clarification of the NCWG TORs proposed by the working group.		Decision				
	S-4	HSSC8/33	 HSSC endorsed the proposed revisions to S-4 Edition 4.6.0 and invited the NCWG Chair to provide a red-line version and a clean copy of draft Edition 4.7.0 to the IHO Sec. IHO Sec. to issue a CL to IHO Member States seeking their approval of draft Edition 4.7.0. 	End of Dec. 2016	On-going				
	S-11 Part A	HSSC8/34	HSSC endorsed the draft revision of S-11 Part A including the proposal to move the current S-11 Part A Annexes to S-11 Part B, and publish separate English and French versions of S-11 Part A.		Decision				
	S-11 Part A	HSSC8/35	 NCWG Chair to provide final version of draft Edition 3.0.0 of S-11 Part A to the IHO Sec. (English version only, including editorial amendments identified by the IHO Sec.). IHO Sec. to issue a CL to IHO Member States seeking their approval of draft Edition 3.0.0 of S-11 Part A (English version only). 	End of Dec. 2016	On-going				

AGENDA ITEM	SUBJECT	ACTION No.	ACTIONS (in bold, action by)	TARGET DATE/EVENT	STATUS (at 24 Jan 2017)
	S-11 Part B	HSSC8/36	IHO Sec. to implement the consequential changes to S-11 Part B, subsequently to the adoption of Edition 3.0.0 of S-11 Part A.	When Ed. 3.0.0 of S-11 Part A is adopted	
	Notice to Mariners	HSSC8/37	IHO Sec. to issue a reminder to IHO Member States that Notices to Mariners should be promulgated in English, in addition to national languages, in accordance with S-4 (B-631.4).	January 2017 (as part of HSSC Outcomes)	On-going
5.6 Dat	a Quality (DQWG)	·	-	
	CATZOC	HSSC8/38	HSSC to invite IRCC to remind IHO Member States the importance of populating ENCs with <u>assessed</u> CATZOC values (1 to 5)	HSSC report to IRCC-9	
	Portrayal of bathymetry quality in S-101	HSSC8/39	NCWG to consider the paper on the "visualization of bathymetric uncertainties data in S-101" and develop appropriate recommendations on the way forward.	NCWG-3 HSSC-9	
5.7 Hyd	drographic Survey	s Scoping Project T			
	Hydrographic Survey Project Team	HSSC8/40	HSSC established a Project Team on Standards for Hydrographic Surveys (HS PT), tasked to revisit S-44 and make recommendations on the way forward for expanding the scope for a possible HSWG.		Decision
			IHO Sec. to issue a CL calling for nomination to the HS PT.	Dec. 2016	Done IHO CL 68/2016

AGENDA ITEM	SUBJECT	ACTION No.	ACTIONS (in bold, action by)	TARGET DATE/EVENT	STATUS (at 24 Jan 2017)				
5.8 Tides, Water Level and Currents (TWCWG)									
	S-104, S-112	HSSC8/41	HSSC approved the revised names of the S-100 based Product Specifications for S-104 (<i>Water</i> <i>Level Information for Surface</i> <i>Navigation</i>) and S-112 (<i>Dynamic</i> <i>Water Level Data Transfer</i>).		Decision				
	NetCDF format	HSSC8/42	TWCWG to investigate the use of the NetCDF format within the IHO and provide recommendations to the S-100WG as appropriate, for further considerations.	TWCWG2, May 2017					
5.9 Hy	drographic Diction	ary (HDWG)							
	Hydrographic Dictionary Strategy	HSSC8/43	HDWG Chair to call a HDWG meeting in early 2017 to develop and finalize a new draft policy of the Hydrographic Dictionary, based on the principles presented at HSSC-8, for further endorsement at HSSC-9.	January 2017 HSSC-9	On going				
	Definitions Registries	HSSC8/44	HDWG to consider the location of authoritative definitions, considering the GI Registry, S-32, and recommend the way forward on the maintenance as well.	HDWG meeting, early 2017					
	Hydrographic Dictionary Wiki Demonstrator	HSSC8/45	HSSC approved the proposal to develop a Wiki crowdsourcing demonstrator for the Hydrographic Dictionary.		Decision				
	er-Organizational I								
6.1 IHO	D-IAG Advisory Bo	oard on the Law of	the Sea (ABLOS)						

AGENDA ITEM	SUBJECT	ACTION No.	ACTIONS (in bold, action by)	TARGET DATE/EVENT	STATUS (at 24 Jan 2017)
	LOS Definitions	HSSC8/46	ABLOS to identify and submit words and definitions to be considered by the HDWG for inclusion in S-32.	HSSC-9	
	Standards of Competence	HSSC8/47	IN to submit proposals on the need to upgrade Standards of Competence on TALOS matters in accordance with the submission procedures for S-5A&B.	Next revision cycle of S-5	
	C-51	HSSC8/48 (Former HSSC7/29)	IN to submit proposals to ABLOS, on the need to expand and update the scope of Chapters 4 and 5 of C-51 for the preparation of future Editions.	ABLOS-24	
7. Dec	cisions of other bod	ies affecting HSSC			
7.1 IRC	CC (incl. MSDIWG	/	1		
	Coordinate Reference Systems	HSSC8/49	IHO Sec on behalf of HSSC to monitor the development of the OGC Candidate Standard through the Marine Domain WG.	HSSC-9	
	Coordinate Reference Systems	HSSC8/50	OGC invited to report to HSSC (and MSDIWG) on the development of the Discrete Global Grid Systems (DGGS) aiming to replace Coordinate Reference Systems (CRS) and its possible impact on the IHO standards, products and services.	HSSC-9	

AGENDA ITEM	SUBJECT	ACTION No.	ACTIONS (in bold, action by)	TARGET DATE/EVENT	STATUS (at 24 Jan 2017)
	Undersea Feature Names	HSSC8/51	 HSSC endorsed the TORs of the UFN Project Team submitted by SCUFN and included liaison with this PT as work items in the Work Plans of NCWG, HDWG and S- 100WG. IHO Sec. to issue a CL calling for nomination in the UFN Project Team. 	January 2017	On going
	ECS	HSSC8/52	HOs (NHC Members, USA,) to keep HSSC informed on the development of chart services and specifications for non-SOLAS users (leisure market).	HSSC-9	

AGENDA ITEM	SUBJECT	ACTION No.	ACTIONS (in bold, action by)	TARGET DATE/EVENT	STATUS (at 24 Jan 2017)			
7.2 IN								
	E-navigation, HGDM	HSSC8/53	 HSSC endorsed the draft (V3) submission to NCSR 4 on activating the IMO/IHO Harmonization Group on Data Modelling (HGDM) (annexed to HSSC8-07.2C) including the suggestions made by the IMO Rep. at HSSC8, and agreed on the way forward related to the draft submission to NCSR 4: HSSC members invited to liaise with their national maritime administrations to consider: -co-sponsoring the submission, -commenting on the submission, -supporting the submission, -nominating representatives to the HGDM, -nominating candidates for chairing the HGDM. 	30 Nov 2016 20 Jan 2017 NCSR4 NCSR4 NCSR4	On going			
	E-navigation, HGDM	HSSC8/54	HSSC decided to remain supportive in the development of the maritime single window concept, on request only, due to resources concerns.		Decision			
	E-navigation	HSSC8/55	HSSC confirmed currents arrangements to develop and provide IHO input to relevant on- going and planned outputs related to e-navigation.		Decision			

AGEND ITEM	A SUBJECT	ACTION No.	ACTIONS (in bold, action by)	TARGET DATE/EVENT	STATUS (at 24 Jan 2017)	
	Port State Control	HSSC8/56	IHO Sec. to issue a CL inviting HOs to liaise with their national maritime administration and provide feedback on PSC issues related to the carriage and operation of ECDIS, for further consideration by the ENCWG at its next meeting.	Mid-December 2016 (response to IHO by mid-Feb. 2017) ENCWG2	On going	
	Back-up arrangements for ECDIS	HSSC8/57	HSSC reminded Member States to ensure that the information on national requirements for ECDIS back-up arrangements using paper charts is kept current.	Permanent	On going	
7.3 1	ALA		1	1		
	Unique Identifiers, Data Streaming	HSSC8/58 (Former HSSC7/42)	IALA to submit its requirements on Maritime Resource Name scheme to the S-100WG, as well as additional input on data streaming requirements, then report to HSSC-9.	S-100WG2 HSSC-9		
7.4	EC			1		
	Liaison with TC80/WG17	HSSC8/59	S-100WG Chair to act as IHO liaison with the IEC/TC80/WG17		Decision	
7.5 0	CIRM					
	E-navigation training	HSSC8/60	CIRM to consider informing the IBSC through IRCC on the development of e-navigation training	IRCC-9		
7.6 1	Inland ENC Harmonization Group (IEHG)					

AGENDA ITEM	SUBJECT	ACTION No.	ACTIONS (in bold, action by)	TARGET DATE/EVENT	STATUS (at 24 Jan 2017)
	S-401	HSSC8/61	Brazil offered its support to the IEHG, considering the harmonization issues in South America.	HSSC-9	
	Portrayal Catalogue Builder, S-401	HSSC8/62	S-100WG Chair to liaise with IEHG for testing the Portrayal Catalogue Builder with S-401 (<i>Inland ENC</i>), as appropriate.	HSSC-9	
7.7 ISO					
7.7	Monitoring of ISO/TC 211 activities	HSSC8/63	HSSC invited the IHO Sec. to continue monitoring ISO/TC211 activities and to inform the MSDIWG of relevant developments.	Permanent	
7.8 OG	С				
	Outreach of marine geospatial information	HSSC8/64	HSSC and MSDIWG invited to pass wider geospatial research topics to the OGC Marine Domain WG for inclusion in its work programme	HSSC report to IRCC-9 HSSC-9	
	MSDIWG and OGC	HSSC8/65	HSSC to invite MSDIWG to liaise with OGC Marine Domain WG	HSSC report to IRCC-9	
7.13 ICP	PC				

AGENDA ITEM	SUBJECT	ACTION No.	ACTIONS (in bold, action by)	TARGET DATE/EVENT	STATUS (at 24 Jan 2017)
	Interaction with ICPC Focus Group	HSSC8/66	HSSC welcomed the offer of the ICPC Focus Group to interact with the S-100WG, NIPWG, NCWG and MSDIWG, as appropriate. ICPC Focus Group to consider participation in the S- 100WG2/ENCWG2 meeting (initial liaison between ICPC's point of contact to HSSC and S- 100WG Chair).	S-100WG2, March 2017	
	Cables, Development of standardized information in nautical publications	HSSC8/67	ICPC Focus Group to submit amendments to the proposal to Submarine Cables Text Box for consideration by NIPWG .	End of Nov. 2016 (for NIPWG3)	Done
	Cables and Deep Sea Mining	HSSC8/68	ICPC Focus Group to submit a proposal to NCWG for adapting S- 4 charting specifications for submarine cables taking into account deep sea mining.	End of January 2017 (for NCWG3)	
	GEBCO 2030	HSSC8/69	IHO Sec. to invite ICPC to comment on the next version of the draft GEBCO roadmap for "Seabed 2030".	When new version of the roadmap available	
7.14 DG	ICPC-IHO Action Plan IWG and NATO G	HSSC8/70	ICPC Focus Group to consider in liaison with the IHO Sec. the development of a roadmap contributing to the implementation of the IHO-ICPC MoU.	HSSC-10	

AGENDA ITEM	SUBJECT	ACTION No.	ACTIONS (in bold, action by)	TARGET DATE/EVENT	STATUS (at 24 Jan 2017)
	AML	HSSC8/71	Considering the existence of the AML Domain, HSSC allocated S- 501 to S-525 as AML product specification identifiers		Decision
8. Rev	view of new develop	pments and other in	formation papers		
		HSSC8/72	HSSC Chair/ IHO Sec. to liaise with SE for a possible SMA presentation to A-1 (STM/FAMOS,)	January 2017	
9. Lia	ison with External	Stakeholders			
	Outreach	HSSC8/73	IHO Sec. to liaise with UKHO for the representation of the IHO at CIRM/Sea Asia/MTEC events.	December 2016	Done
	Outreach	HSSC8/74	IHO Member States to consider representing IHO interests in the stakeholders' meetings organized by Digital Ship and inform the IHO Sec. of their intentions.	December 2016	
10. Re	view and Endorser	nent of HSSC Worl	k Plan and List of Actions		
	Status of IHO Publications	HSSC8/75 (Former HSSC7/49)	IHO Member States to provide their additional requirements, if any, and contributions for translation in French and/or Spanish of IHO Publications (Doc. HSSC8-10A refers).	Permanent	
12. Dat	t <mark>e & Location of th</mark>	e next meetings	115500-104 101018).		

AGENDA ITEM	SUBJECT	ACTION No.	ACTIONS (in bold, action by)	TARGET DATE/EVENT	STATUS (at 24 Jan 2017)
	HSSC-9 HSSC-10 HSSC-12	HSSC8/76	HSSC welcomed the confirmation from Canada for hosting HSSC-9 (Ottawa, Nov. 2017) and Germany for hosting HSSC-10 (Rostock, May 2018) as well as the UK provisional offer for hosting HSSC-12 (May 2020).		Decision
	HSSC-11	HSSC8/77	HSSC Members were invited to consider the possibility to host HSSC-11, in May 2019.	HSSC-9	