**LIST of DECISIONS & Actions arising from HSSC-8**

| **AGENDA**  **ITEM** | **SUBJECT** | **ACTION**  **No.** | **ACTIONS**  **(in bold, action by)** | **TARGET**  **DATE/EVENT** | **STATUS**  **(at 10 May 2017)** |
| --- | --- | --- | --- | --- | --- |
| **1. Opening and Administrative Arrangements** | | | | | |
|  | 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 Agenda** | | | | | | |
|  | Deadlines for submission of proposals | HSSC8/02 | **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 Minutes of 7th HSSC Meeting** | | | | | |
|  | S-1xx Portrayal Issues | 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 |
|  | S-122 test beds | HSSC8/04  (Former HSSC7/20) | For S-122 (*Marine Protected Areas*), 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 the IHO Strategic Plan** | | | | | |
|  | 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 the IHO 3-year Work Programme** | | | | | |
|  | 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 HSSC Report to the Assembly** | | | | | |
|  |  | HSSC8/08 | **HSSC** approved the proposed outline of the HSSC Report to A-1. |  | Decision |
|  |  | HSSC8/09 | **HSSC** endorsedthe 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 |
| **5. Reports by HSSC Working Groups** | | | | | |
| **5.1 S-100 (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  DONE (IHO CL 15/2017 & CL 32/2017) |
|  |  | 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 |
|  |  | 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 |
|  |  | 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** | DONE for NIPWG  On-going for S-100WG |
|  |  | 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*). | **Report to HSSC-9** | 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 submita 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** | DONE |
|  | 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** |  |
|  | 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** | On-going |
| |  | | --- | | **5.2 Data Protection Scheme (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** **ENC Standards Maintenance (ENCWG)** | | | | | |
|  | S-65, S-66 | HSSC8/23 | **HSSC** endorsed the principles of the revision of S-65 and S-66.  **ENCWG Chair** to provide a red-line 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  DONE for S-65 (IHO CL 16/2017 dated 10 Feb.) |
|  | 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** | DONE (IHO CL 21/2017 dated 15 Feb.) |
|  | 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 |
|  | 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 Nautical Information Provision (NIPWG)** | | | | | |
|  | S-122, S-123 | HSSC8/29 | **HSSC** endorsed the development schedules proposed by NIPWG with a high priority for S-122 (*Marine Protected Areas*) and S-123 (*Radio Services*). |  | 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** |  |
| **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** | DONE (IHO CL 17/2017 dated 13 Feb.) |
|  | 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** | DONE (IHO CL 19/2017 dated 13 Feb.) |
|  | 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)** | DONE (IHO CL 08/2017 dated 25 January) |
| **5.6 Data Quality (DQWG)** | | | | | |
|  | CATZOC | HSSC8/38 | **HSSC** to invite IRCC to remind IHO Member States the importance of populating ENCs with assessed 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 Hydrographic Surveys Scoping Project Team (H2S PT)** | | | | | |
|  | 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 & IHO CL 26/2017 |
| **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 (*Water Level Information for Surface Navigation*) and S-112 (*Dynamic Water Level Data Transfer*). |  | 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 Hydrographic Dictionary (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  Meeting planned end of July, London |
|  | 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** | Meeting planned end of July, London |
|  | Hydrographic Dictionary Wiki Demonstrator | HSSC8/45 | **HSSC** approved the proposal to develop a Wiki crowdsourcing demonstrator for the Hydrographic Dictionary. |  | Decision |
| **6. Inter-Organizational Bodies** | | | | | |
| **6.1 IHO-IAG Advisory Board on the Law of the Sea (ABLOS)** | | | | | |
|  | 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. Decisions of other bodies affecting HSSC** | | | | | |
| **7.1 IRCC (incl. MSDIWG)** | | | | | |
|  | 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** |  |
|  | 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  DONE (IHO CL 07/2017 & 30/2017) |
|  | 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** |  |
| **7.2 IMO** | | | | | |
|  | 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 See IHO CL 12/2017 & 29/2017 |
|  | 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 |
|  | 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** | DONE (IHO CL 67/2016)  Doc. ENCWG2-07.4A,B&C) |
|  | 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** | DONE (IHO CL 08/2017 dated 25 Jan) |
| **7.3 IALA** | | | | | |
|  | 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** | DONE |
| **7.4 IEC** | | | | | |
|  | Liaison with TC80/WG17 | HSSC8/59 | **S-100WG Chair** to act as IHO liaison with the IEC/TC80/WG17 |  | Decision |
| **7.5 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 Inland ENC Harmonization Group (IEHG)** | | | | | |
|  | 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 (*Inland ENC*), 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 OGC** | | | | | |
|  | 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 ICPC** | | | | | |
|  | 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** | Closed |
|  | 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)** | On-going |
|  | 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** |  |
|  | ICPC-IHO Action Plan | 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** |  |
| **7.14 DGIWG and NATO GMWG** | | | | | |
|  | AML | HSSC8/71 | Considering the existence of the AML Domain, **HSSC** allocated S-501 to S-525 as AML product specification identifiers |  | Decision |
| **8. Review of new developments and other information papers** | | | | | |
|  |  | HSSC8/72 | **HSSC Chair/ IHO Sec.** to liaise with SE for a possible SMA presentation to A-1 (STM/FAMOS, …) | **January 2017** | Done |
| **9. Liaison 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** | DONE (IHO CL 08/2017 dated 25 Jan) |
| **10.**  **Review and Endorsement of HSSC Work 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** | DONE (IHO CL 08/2017 dated 25 Jan) |
| **12. Date & Location of the next meetings** | | | | | |
|  | 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** | Reminder included in IHO CL 08/2017 dated 25 Jan |