**LIST of DECISIONS & Actions arising from HSSC-9**

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| **AGENDA****ITEM** | **SUBJECT** | **ACTION****No.** | **ACTIONS****(in bold, action by)** | **TARGET****DATE/EVENT** | **STATUS****(at 18 December 2017)** |
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| **1. Opening and Administrative Arrangements**  |
|  | Contact List | HSSC9/01 | **IHO Member States** and **Stakeholders** to provide the IHO Sec. with their updates to the HSSC List of Contacts. | **Permanent** | Last update1 Nov 2017 |
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| **2. Approval of Agenda**  |

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|  | Agenda and Timetable for HSSC-9 | HSSC9/02 | **HSSC** approved the agenda and associated timetable. |  | Decision |
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| **3. Matters arising from Minutes of 8th HSSC Meeting** |
|  | E-navigation implementation | HSSC9/03(Former HSSC8/05) | **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-10** |  |
|  | S-101&IMO Performance Standards | HSSC9/04(Former HSSC8/19) | **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. | **HSSC-10** |  |
|  | Equivalent T&Ps for ENCs | HSSC9/62(Former 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. | **HSSC-10** |  |
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| **4. HSSC Administration** |
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|  | Decisions from the IHO Council (C-1) affecting HSSC | HSSC9/05 | **IHO Sec.** in liaison with **HSSC Chair Group** to draft proposed amendments to HSSC TORs as instructed by C1 (Action C1/05 refers) | **HSSC-10** |  |
|  | Election of HSSC Chair and Vice-Chair | HSSC9/06 | **HSSC** agreed on the voting procedure for the election of Chair and Vice-Chair |  | Decision |
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| **5. Reports by HSSC Working Groups** |
| **5.1 S-100 (S-100WG)** |
|  | Report and Recommendations of S-100WG | HSSC9/07 | **HSSC** approved the proposed publication cycle of S-100 (Ed. 4.0.0 in 2019, 2 years cycle, then 3 years cycle). |  | Decision |
|  | Interoperability | HSSC9/08 | **HSSC** assigned S-98 to the S-100 Interoperability Specification for Navigation Systems**S-100WG** to consider how to incorporate generic interoperability into future editions of S-100 | **HSSC-11** | Decision |
|  | S-99 | HSSC9/09 | **IHO Sec.** agreed to resource the maintenance of S-99 -*Operational Procedures for the Organization and Management of the S-100 GI Registry* **–** noting that the oversight remains under the S-100WG umbrella |  | Decision |
|  | S-101/S-100 | HSSC9/10 | **HSSC** agreed to use the IHO Special Project funds to build the first iteration of the S-101 portrayal catalogue and potential fixes and enhancements to the Portrayal Catalogue Builder |  | Decision |
|  | IHO S-100 webpage | HSSC9/11 | **IHO Sec.** to revamp the S-100 page of the IHO website to include a repository for different product specifications under development |  | Done |
|  | S-101 | HSSC9/12 | **HSSC** welcomed the nomination of Mr Al Amstrong (US) as S-101 Project Team Lead |  | Decision |
|  | S-121 | HSSC9/13 | **S-100WG/S-121PT** to submit Ed. 1.0.0 of S-121 for endorsement by HSSC | **HSSC-10 (- 7 weeks = 26 March 2018)** |  |
|  | ECDIS Display | HSSC9/14 | **HSSC** welcomed the establishment of the “transversal” ENC Display SubWG under the **ENCWG**, to concentrate on the improvement of ENC display. |  | Decision |
|  | IALA Marine Resource Identifier | HSSC9/15 | **HSSC** approved the adoption the IALA Marine Resource Identifier concept**IHO Sec.** to register to the um:mm:iho domain and **S100WG** to establish a management process for the namespace once it has been registered | **Dec. 2017****HSSC-10** | Decision |
|  | Data Validation | HSSC9/16 | **HSSC** agreed on the proposal made to consider the systematic development of validation checks within every S-10x Product Specification.**S-100WG/DQWG** to consider at their next meeting how the development of a “minimum” standard for data validation in S-1xx based products, can be handled, and report back at HSSC | **HSSC-10** | Decision |
|  | Test Bed Platform | HSSC9/17 | **HSSC** endorsed the Test Bed Platform as the mechanism to be used by developers of S-100 based Product Specification for the IHO and other interested domain owners. |  | Decision |
|  | Test Bed Platform | HSSC9/18 | **S-100WG** to further develop and finalize the Test Bed Platform and associated guidelines to be used by developers of S-100 based products | **HSSC-11** |  |
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| **5.2 ENC Standards Maintenance (ENCWG)** |

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|  | End-users perspective on ENC and ECDIS | HSSC9/19 | **ENCWG** to address the issues raised by INTERTANKO in its paper submitted to HSSC-9 and provide HSSC/IHO Sec. with appropriate comments for further consideration by HSSC WGs and PTs if appropriate**IHO Sec**, then to provide INTERTANKO with a consolidated response on the issues raised in its submission paper | **Feb.2018****March 2018** |  |
|  | S-58 test datasets | HSSC9/20 | **HSSC** approved the funding request to create S-58 ENC datasets to support validation test for critical errors only. |  | Decision |
|  | S-58 test datasets | HSSC9/21 | **ENCWG** to manage the technical aspects of the contract (acceptance tests, etc.) and make these datasets available. | **March 2018** |  |
|  | High Density Bathymetry ENCs | HSSC9/22 | **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 | **ENCWG-3** |  |
|  | High Density Bathymetry ENCs | HSSC9/23 | In the IHO CL reporting on the outcome of HSSC-9, **IHO Sec.** to invite IHO MS to include more contour lines in their ENCs, as appropriate | **Dec. 2017** |  |
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| **5.3** **Nautical Information Provision (NIPWG)** |
|  | Report and Recommendations of NIPWG | HSSC9/24 | **NIPWG** to provide draft Ed. 1.0.0 of S-122 and S-123 (incl. impact assessment results) for endorsement by HSSC | **HSSC-10** |  |
|  | Request of financial support to outsource S-127 completion | HSSC9/25 | **HSSC** endorsed the request for funding the S-127 Product Specification |  | Decision |
|  | S-100-based products services | HSSC9/26 | **NIPWG** to submit a paper addressing the issue of delivering new S-100 based products and services (production, quality control, carriage requirements…) | **HSSC-10** |  |
|  | IHO Resolution 2/2007 | HSSC9/27 | **S-100WG/NIPWG** in consultation with other HSSC WGs Chairs and **IHO Sec.** to further develop amendments to IHO Resolution 2/2007 in accordance with Decision A1/12 (guidance for impact assessment) and Action C1/05 (endorsement/approval procedure of standards listed in Appendix for instance) | **HSSC-10 (1st step), HSSC-11 (2nd step)** |  |
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| **5.4 Nautical Cartography (NCWG)** |
|  | Portrayal  | HSSC9/28(Former HSSC8/03) | **NCWG** to compile portrayal requirements relating to product specifications in general as part of its programme of work, following a protocol to be distributed to the other WGs. | **HSSC-10** |  |
|  | NCWG TORs | HSSC9/29 | **HSSC** approved the amendments of the NCWG TORs as proposed by the NCWG |  | Decision |
|  | NCWG TORs | HSSC9/30 | **IHO Sec.** to upload the NCWG TORs as proposed by the NCWG and approved by HSSC | **Dec. 2017** |  |
|  | Nautical Accident | HSSC9/31 | **NCWG** to consider the 3 recent investigation reports (*Vasco de Gama, Nova Cura, Muros*) by correspondence if possible, or at their next meeting, and provide recommendations as appropriate | **HSSC-10/-11** |  |
| **5.5 Data Quality (DQWG)** |
|  | Report and Recommendations of DQWG | HSSC9/32 | **HSSC** agreed on the continuity of the activities of the DQWG |  | Decision |
|  | Proposal for new DQWG TORs | HSSC9/33 | **HSSC** approved the new DQWG TORs as proposed by the DQWG and amended during HSSC-9 |  | Decision |
|  | Proposal for new DQWG TORs | HSSC9/34 | **IHO Sec.** to upload the new DQWG TORs accordingly | **Dec. 2017** |  |
|  | Proposal for Portrayal of Bathymetry Quality in S-101 | HSSC9/35 | **HSSC** endorsed the proposal made by the DQWG to further develop the conditional visualization methodology of quality of bathymetric data in liaison with **NCWG, NIPWG, ENCWG, S-101PT** |  | Decision |
|  | Proposal for a New Publication - Mariners' Guide to Accuracy and Reliability of ENC | HSSC9/36 | **NIPWG, NCWG, ENCWG, HSPT** to provide their initial comments on the draft Publication S-67 to the DQWG Chair**DQWG** to further submit Ed.1.0.0 of S-67 for endorsement by HSSC and to consider a video version of S-67 when approved by MS. | **12 January 2018 for DQWG-13****HSSC-10** |  |
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| **5.6 Project Team on Standards for Hydrographic Surveys (HSPT)** |
|  | Report and Recommendations of HSPT | HSSC9/37 | **HSSC** encouraged the HSPT to continue its work following the course of actions submitted at HSSC-9, with the view of submitting a draft 6th Edition of S-44 for endorsement in 2019-20. | **HSSC-10 (progress report)****HSSC-11/-12** | Decision |
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| **5.7 Tides, Water Level and Currents (TWCWG)** |
|  | Report and Recommendations of TWCWG | HSSC9/38 | **HSSC** noted that development of S-112 - *Dynamic Water Level Data Transfer* – is no longer required as the functionality will be in S-104 – *Water Levels* - and agreed to reassign the S-112 identifier to another product specification as appropriate  |  | Decision |
| **5.8 Hydrographic Dictionary (HDWG)** |
|  | HDWG TORs | HSSC9/39 | **HSSC** approved the amendments to the HDWG TORs as proposed by the HDWG |  | Decision |
|  | HDWG TORs | HSSC9/40 | **IHO Sec.** to upload the new HDWG TORs accordingly |  | Decision |
|  | Participation in HDWG | HSSC9/41 | **IHO Sec.** to invite IHO Member States to appoint new active members to the HDWG | **Jan. 2018** |  |
| **6. Inter-Organizational Bodies** |
| **6.1 IHO-IAG Advisory Board on the Law of the Sea (ABLOS)** |
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| **7. Decisions of other bodies affecting HSSC** |
| **7.1 IRCC (incl. MSDIWG)** |
|  | IRCC activities (including MSDI) affecting HSSC | HSSC9/42 | **HSSC Members** invited to provide their responses to IHO CL 49/2017 on the draft publication B-12 - *Guidance Document on Crowdsourced Bathymetry* - | **24 Nov 2017** |  |
|  | S-124 | HSSC9/43 | **HSSC** invited IHO MS to consider the possibility of nominating a new S-124 Correspondence Group Leader |  | Done |
|  | S-124 | HSSC9/44 | **S-124CG** to reinvigorate the liaison with S-100WG and NIPWG | **NIPWG-5, S-100WG-3** |  |
| **7.2 IMO** |
|  | IMO activities affecting HSSC | HSSC9/45 | **HSSC** to ensure that the HGDM monitors the on-going consideration by IMO Facilitation Committee (FAL) of the single-window concept  | **HSSC-10** |  |
|  | Maritime Services (former Maritime Service Portfolio) | HSSC9/46 | **NIPWG** to coordinate for the HSSC WGs, the actions related to the development and the use of a high level HGDM template for Maritime Services and provide recommendations on the way forward at the next HSSC meeting | **NIPWG-5, HSSC-10** |  |
|  | Cyber security | HSSC9/47 | **HSCC** tasked the **S-100WG/ENCWG** to continue monitoring the development of guidance on cyber security and advise on appropriate actions in relation with the development of the S-100 data protection scheme | **HSSC-10** |  |
| **7.3 IALA** |
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| **7.4 IEC** |
|  | IEC activities affecting HSSC | HSSC9/48 | **IEC** to consider the possibility of presenting the typical timetable to develop a new major revision of ECDIS at the next S-100WG meeting | **S-100WG-3** |  |
|  | IEC TC80 Product Specficiations | HSSC9/49 | **HSSC** allocated S-421 to S-430 as IEC TC80 product specification identifiers (Route Plan, …) |  | Decision |
| **7.5 CIRM** |
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| **7.6 Inland ENC Harmonization Group (IEHG)**  |
|  | Bathymetric Inland ENC | HSSC9/50 | **HSSC** allocated S-402 to the Bathymetric Inland ENC |  | Decision |
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| **7.7 ISO**  |
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| **7.8 OGC** |
|  | OGC activities affecting HSSC | HSSC9/51 | **HSSC** encouraged IHO MS to participate in the OGC Marine Domain WG |  |  |
|  | OGC activities affecting HSSC | HSSC9/52 | **HSSC** encouraged regional IHO MS participation in OGC TC meetings either in person or via web conference |  |  |
| **7.9 IOGP** |
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| **7.10 JCOMM** |
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| **7.11 RTCM** |
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| **7.12 ICPC** |
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|  | Cables and Deep Sea Mining | HSSC9/53(Former HSSC8/68) | **ICPC IHO Working Group** (former Focus Group) to resubmit a proposal to NCWG for adapting S-4 charting specifications for submarine cables taking into account deep sea mining (amendments to S-4 B-443.8). | **Sept. 2018 for NCWG-4** |  |
|  | GEBCO 2030 | HSSC9/54(Former HSSC8/69) | **ICPC**/**IHO Working Group** invited to comment on the GEBCO roadmap for “Seabed 2030” (seabed2030.gebco.net/). | **Jan 2018** |  |
|  | ICPC-IHO Action Plan | HSSC9/55.1(Former HSSC8/70) | **ICPC IHO Working Group** to consider in liaison **with the IHO Sec.** the development of a roadmap. | **HSSC-10** |  |
|  | Crowd sourcing | HSSC9/55.2 | **ICPC** to report on the progress made on the development of crowd sourcing policies and data release. | **HSSC-10/IRCC-10** |  |

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| **7.13 DGIWG and NATO GMWG** |
|  | DGIWG and NATO GMWG activities affecting HSSC | HSSC9/56 | **HSSC Members** to report to the IHO Sec. on the possibility of designating a liaison officer with DGWIG and NATO GMWG for matters affecting HSSC (development of AML S-501 to S-525 Product Specifications in particular) | **HSSC-10** |  |
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| **8. Review of new developments and other information papers** |
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| **9. Liaison with External Stakeholders** |
|  | ECDIS Stakeholders’s Forum | HSSC9/57 | **HSSC** will consider at HSSC-10 the need and possibility of arranging an ECDIS Stakeholder’s Forum in 2019 or later. | **HSSC-10**  |  |
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| **10.**  **Review and Endorsement of HSSC Work Plan and List of Actions** |
|  | Status report on IHO Publications on Standards, Specification and Guidelines | HSSC9/58 | **IHO Sec.** to report on the availability of the Spanish version of M-3 (updated until June 2017) | **Dec. 2017** |  |
|  | Guidelines and Guidance IHO Documents | HSSC9/59 | **S-100WG/ENCWG** to submit a proposal opening the possibility of establishing G-series in the list of IHO Publications, for guidelines, and guidance documents. | **HSSC-10** |  |
|  | Status of IHO Publications | HSSC9/60 (Former HSSC8/75) | **IHO Member States** to provide their additional requirements, if any, and contributions for translation in French and/or Spanish of IHO Publications (Doc. HSSC9-10A refers). | **Permanent** |  |
| **11. Any other business** |
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| **12. Date & Location of the next meetings** |
|  | HSSC-10HSSC-11HSSC-12 | HSSC9/61 | **HSSC** welcomed the confirmation from Germany for hosting HSSC-10 (Rostock, May 2018) and South Africa for hosting HSSC-11 (Cape Town, May 2019) as well as the UK provisional offer for hosting HSSC-12 (May 2020). |  | Decision |