**CONSOLIDATED HSSC WORK PLAN 2018-19**

*Version 23 January 2018*

*Notes:*

*a/ This consolidated work plan (WP) has been compiled from the reports submitted to HSSC-9 and following exchanges with HSSC WGs Chairs in January 2018.*

*b/ Quick links:*

|  |  |  |
| --- | --- | --- |
| *§3.* [*S-100WG Work Plan*](#_3.__S-100WG) | *§4.* [*NIPWG Work Plan*](#_4._NIPWG_WORK) | *§5.* [*ENCWG Work Plan*](#_5._ENCWG_WORK)  |
| *§6. Left blank intentionally*  | *§7.* [*TWCWG Work Plan*](#_7._TWCWG_WORK) | *§8.* [*NCWG Work Plan*](#NCWG) |
| *§9.* [*DQWG Work Plan*](#DQWG) | *§10.* [*HDWG Work Plan*](#HDWG) | *§11.* [*ABLOS Work Plan*](#ABLOS) |
| *§12.* [*COORD Work Plan*](#HSSCCOORD) | *Annex A.* [*HS PT Work Plan*](#HSPT) |  |

**Objective:**

This work plan aims at ensuring efficient project resource management and alignment, progress monitoring and to provide a communication utility with internal and external parties.

**Rationale:**

The justification for the HSSC Work Plan is in conformance with the IHO Strategic Plan, and mainly related to the following elements of the IHO Work Programme – 2018 - 2020 (Doc. A.1/WP1/02 in [P-6 A-1, volume 2](https://www.iho.int/iho_pubs/periodical/P-6/P6A1_2017VOLUME2_ENG.pdf), page 17):

Element 2.1 Programme Coordination

Element 2.2 Foundational Nautical Cartography Framework

Element 2.3 S-100 Framework

Element 2.4 S-57 Framework

Element 2.5 Support the implementation of e-navigation and Marine Spatial Data Infrastructures (MSDI)

Element 2.6 Hydrographic Surveying

Element 2.7 Hydrographic aspects of UNCLOS

Element 2.8 Other technical standards, specifications, guidelines and tools

Activities continuing beyond 2020 are subject to the IHO Work Programme for 2021-2023 that will be considered by the second session of the IHO Assembly in April 2020.

**Procedure:**

The HSSC work plan covers a rolling two year period and is revised annually. Each subordinate body proposes in its report to the annual meeting of HSSC a revised work plan for the next biennium. Completed work items should be removed from work plans after they have been reported at a subsequent HSSC meeting. The Chairs of the subordinate bodies, along with the HSSC Chair, will meet prior to each HSSC meeting to review progress, and to harmonize the proposed work plans. The proposed work plans for the next biennium will be considered by the plenary with the report of each subordinate body. The draft consolidated HSSC work plan for the next biennium will be reviewed on the last day of the HSSC meeting, incorporating the agreed changes discussed during that meeting. A revised consolidated HSSC work plan incorporating all approved additional work items will be circulated to participants of the meeting for final comment at the same time as the draft minutes of the meeting. HSSC Chair could seek committee members’ interim approval for emerging issues between meetings.

**Communications:**

The HSSC Work Plan will be posted on the IHO website, and a progress summary will be provided at IHO Assemblies.

**Monitoring:**

In accordance with Decision No. 1 of the 1st Session of the IHO Assembly, the Council evaluates by correspondence the accomplishment of the preceding year’s work programme and report to MS through the IHO Annual Report.

**Project Numbering:**

Each task will be given a sequential number independent of related subordinate body. The related IHO Work Programme Element number and the specific HSSC meeting that approved the inclusion of the task will be identified in the HSSC Work Plan summary. Each sub task will be numbered using an alphanumeric sequence, “A*n*, B*n*, C*n*..”

**Priorities:**

Three Levels of Priorities (H, M, and L) will be assigned by HSSC using the “Guidelines for the Evaluation of

Proposed New Work Items for HSSC and its Subordinate Bodies” (see section 1 hereafter).

## **1. GUIDELINES FOR THE EVALUATION OF PROPOSED NEW WORK ITEMS FOR HSSC AND ITS SUBSIDIARY BODIES**

**Introduction**

1.1 In order to best use the limited resources available to HSSC and its subordinate bodies, it is necessary to evaluate and prioritise proposed new work items. These guidelines are based on the principles originally agreed at CHRIS/13 and CHRIS/15 and revised and enhanced at CHRIS/18. They are intended to provide a uniform basis for evaluation and prioritisation.

1.2 Evaluation should be done as a two-stage process:

a. general consideration leading to acceptance or rejection; and if accepted,

b. establishment of priorities.

**General acceptance**

1.3 Before deciding to include a new item in the work plan of HSSC and its subordinate bodies, the following factors should be taken into account:

a. is the subject addressed by a proposal considered to be within:

(1) the scope of IHO objectives?

(2) the current IHO work programme?

b. has a need for the measure proposed been identified (for example, client demand, internal improvements)?

c. do adequate industry standards or solutions exist or are they being developed thereby reducing the need for action through HSSC and its subordinate bodies?

d. is the objective achievable in the existing HSSC and its subordinate bodies‟ work plan taking into account a realistic estimates of resources needed and available?

e. what are the envisaged deliverables?

**Establishment of priorities**

1.4 Priorities for accepted work items should normally be assigned based on consideration of the following factors:

a. measures aimed at substantially preventing maritime casualties, marine pollution incidents or enhancing maritime security

b. measures to overcome identified deficiencies in existing IHO standards and technical resolutions;

c. measures needed to align IHO standards and resolutions with those of other relevant international standards and recommendations;

d. measures required to take into account the introduction of new technologies and methods in maritime operations;

e. measures required to take into account new techniques in data acquisition, processing and management, and production techniques in hydrography;

f. measures leading to increased Hydrographic Office efficiency.

1.5 Follow up actions in response to specific requests from the International Hydrographic Conference/Assembly or other international and intergovernmental organisations should be evaluated in light of paragraph 1.4 above unless specifically identified as urgent matters.

**General remarks**

1.6 When setting priorities, certain flexibility should be provided to allow for initiatives that could not be foreseen.

1.7 Once a decision has been made on the basis of the above for a new work item to be included in the work plan of HSSC and its subordinate bodies, an appropriate target completion date should be established, taking into account the urgency of the matter concerned.

1.8 In general, proposals for new work items as well as the revised work plans presented by Chairs of subordinate bodies as part of their annual reports should include a proposed priority for each work item, based on the guidelines above.

1.9 Wherever possible, proposed priorities for work items will be considered ahead of a meeting by a “Chair Group” comprising Chair, Vice-Chair, Secretary and all available Chairs of subordinate bodies. Final endorsement of work item priorities will rest with HSSC and be considered at the respective meeting.

## 2. HSSC RELEVANT ELEMENTS OF IHO WORK PROGRAMME 2018-2020

See Programme 2 in the IHO Work Programme 2018-2020 (Doc. A.1/WP1/02 in [P-6 A-1, volume 2](https://www.iho.int/iho_pubs/periodical/P-6/P6A1_2017VOLUME2_ENG.pdf), page 17).

See Programme 2 in the IHO Work Programme 2018 (Doc. [C1-4.2](https://www.iho.int/mtg_docs/council/C1/C1-4-2%20Proposed%20Work%20Programme%20for%202018.docx))

## 3. S-100WG WORK PLAN 2018-19

**Tasks**

|  |  |
| --- | --- |
| A | Maintain and extend S-100 “IHO Universal Hydrographic Data Model” (IHO Task 2.3.2) |
| B | Maintain and extend S-99 “Operational Procedures for the Organization and Management of the S-100 Geospatial Information Registry” (IHO Task 2.3.3) |
| C | Maintain and extend the S-100 GI Registry (IHO Task 2.3.1) |
| D | Supervise/Advise and support the development and maintenance of S-100-based product specifications (IHO Task 2.3.5) |
| E | Monitor the development of other related international standards (IHO Task 2.1) |
| F | Provide outreach and technical assistance regarding the implementation of S-100 (IHO Task 2.3.5) |
| G | Maintain the S-100 section of the IHO website (IHO Task 2.3) |
| H | Conduct the 2017 and 2018 meetings of the S-100WG and its sub-group(s) and project team(s) (IHO Task 2.1) |

**Work items**

| **Work item** | **Title** | **Priority**H-highM-mediumL-low | **Next milestone** | **Start****Date** | **End****Date** | **Status**P-plannedO-ongoingC-completedS-Superseded | **Contact Person(s)** | **Related Pubs / Standard** | **Remarks** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| A.1 | Maintain and Extend S-100 | H | HSSC 10 | 2010 | Permanent | O | Julia Powell (NOAA) |  | draft Ed. 4.0.0 submitted to HSSC-10 in May 2019 |
| A.2 | Development of an S-100 Interoperability Specification | H |  | 2015 | 2018 | O | Julia Powell (NOAA) |  | Draft Edition 1.0.0 submitted at HSSC-10 in May 2018 |
| A.3 | Develop the protection scheme (S-63 equivalent component, S-100 Part 14) of S-100 based-products | M |  | 2016 | 2018 | P | Jonathan Pritchard (UKHO) |  | Progress report and proposed timeline submitted at HSSC-9. |
| B.1 | Update S-99 and the S-100 Registry pages for the registration of S-100 product specifications in accordance with HSSC6-05B rev1 | M |  | 2015 | 2018 | P | Julia Powell (NOAA) |  |  |
| B.2 | Establish and maintain and expert group for the hydro domain: | M |  | 2016 | Permanent | P | Julia Powell (US) |  | Action HSSC8/14 (membership and TORs) |
| C.1 | Update S-100 GI Register to edition 3.0.0 and re-build the web-interfaces | H |  | 2015 | Permanent | O | Yong Baek (KHOA) |  |  |
| C.2 | Connect the S-100 Feature Catalogue Builder to the S-100 GI Register | H |  | 2015 | Permanent | O | Yong Baek (KHOA) |  |  |
| C.3 | Develop and maintain web-interfaces to propose new symbology to the S-100 Portrayal Register | H |  | 2015 | Permanent | O | Yong Baek (KHOA) |  |  |
| C.4 | Update and Maintain the Portrayal Catalogue Builder | H |  |  | Permanent | O | IHO Secretariat |  | Action HSSC8/62 |
| D.1 | Review the S-100 Master Plan annually | M |  | 2014 | Permanent | O | Julia Powell (NOAA) | S-100 | Include monitoring the need to revise existing S-100-based PS (e.g. S-102) and or to develop new S-100-based PS. |
| D.2 | Review the S-101 Value Added Roadmap annually | H |  | 2013 | Permanent | O | Julia Powell (NOAA) | S-101 |  |
| D.3 | Finalization of S-101 ENC Product Specification | H |  | 2015 | 2018/2019 | O | Julia Powell (NOAA)  |  | Draft Edition 1.0.0 to be submitted to HSSC9 or 10 pending resources |
| D.4 | Monitor the implementation of the 1st draft of S-101 ENC product specification | H |  | 2015 |  | P |  |  | Action HSSC8/19 (Impact on IMO Performance Standards ?) |
| D.5 | Develop an S-100/S-101 Test Strategy and Test Bed | H |  | 2013 | Permanent | O | Julia Powell (NOAA) |  |  |
| D.6 | Develop Edition 2.0.0 of S-102 Bathymetric Content Specification. | H |  | 2014 | 2018 | P | Dave Brazier (NAVO) |  | Submit draft Edition 2.0.0 to HSSC-10 (May 2018) |
| D.7 | Develop S-129 Product Specification for Underkeel Clearance Management (UKCM) Information. | M |  | 2016 | 2018 | P | Nick Lemon (AMSA) |  | Decision HSSC8/17 |
| D.8 | Develop S-121 Product Specification for Maritime Limits and Boundaries | H |  | 2016 | 2018 | O | Mark Alcock (Geoscience Australia) |  | Action HSSC8/16Submit draft Edition 1.0.0 to HSSC-10 |
| D.9 | Formally establish an ENC Display SubWG | M | New | 2017 | 2019 | O | Christian Mouden (France) |  | In liaison with ENCMWG and NCWG |
| E.1 | Monitor the development of other related international standards | M |  |  | Permanent | O | Julia Powell (NOAA) |  |  |
| E.2 | Monitor and coordinate interactions with OGC and IOGP, to ensure proper harmonization in the development of standards. | M |  | 2016 | Permanent | P |  |  | Standards such as IOGP SSDM SeabedML (Action HSSC6/37) |
| E.3 | Monitor the development of the IMO guidance on maritime cyber security and advice on possible future actions  | L |  | 2016 | Permanent | P | Jonathan Pritchard (UKHO) |  |  |
| F.1 | Liaise with IHO subsidiary bodies and subordinate organs, e.g. WWNWS-SC, NIPWG, ENCWG, SCUFN, etc. | H |  |  | Permanent | O | Julia Powell (NOAA) |  | Establish joint project teams as required and support the UFN Project Team, see Doc. HSSC8-07.1C INF3 |
| F.2 | Liaise with non-IHO constituents, e.g. IALA E-nav Committee, IEHC, JCOMM Expert Teams, DGIWG, ISO, ICPC, marine navigation and GIS industry, etc. | H |  | 2004 | Permanent | O | Julia Powell (NOAA) |  | Clarification of the relations between IALA and IHO product specifications (e.g. sector lights modelling, encoding and portrayal in S-101 and S-201)Actions HSSC8/58, HSSC8/66 |
| G.1 | Maintain the S-100 section of the IHO website | H |  | 2003 | Permanent | O | Tony Pharaoh (IHO Sec.) |  |  |

**Meetings** (Task H)

|  |  |  |
| --- | --- | --- |
| **Date**  | **Location** | **Activity** |
| 15-18 March 2017 | Genoa, Italy | S-100WG-2 |
| 19-21 Sept 2017 | Virginia, USA | S-100 TSM-5 |
| 10-13 April 2018 | Singapore | S-100WG-3 |
| 2018 | Tbd | S-100 TSM-6 |

Chair: Julia Powell, NOAA Email: julia.powell@noaa.gov

Vice Chair: Yong Baek, KHOA Email: ybaek@korea.kr

Secretary: Vacant Email:

## 4. NIPWG WORK PLAN 2018-19

**Tasks**

|  |  |
| --- | --- |
| D | Maintain Publication S-12 “Standardization of List of Lights and Fog Signals” (IHO Task 2.8.1) |
| E | Maintain Publication S-49 “Recommendations concerning Mariners’ Routeing Guides” (IHO Task 2.8.3) |
| F | Establish and monitor, in liaison with the S-100WG, the project teams required to specify and develop nautical information layers for use in ECDIS (IHO Task 2.3) |
| G | Develop high level specifications for a combined Marine Service Portfolio (MSP) covering the provision of hydrographic services to mariners in accordance with the IMO e-navigation strategy implementation plan (IHO Task 2.5.2) |
| H | Develop a test and implementation plan for the development of the MSP “hydrographic services” (IHO Task 2.5.2) |
| I | Maintain IHO Resolutions in M-3 relating to Nautical Publications as required (IHO Task 2.1) |
| J | Liaise with other HSSC WGs and other IHO and international bodies (IHO Task 2.1) |
| K | Conduct the 2017 and 2018 meetings of the NIPWG and its sub-group(s) and project team(s) (IHO Task 2.1) |

**Work items**

| **Work item** | **Title** | **Priority**H-high M-mediumL-low | **Next Milestone** | **Start Date** | **End Date** | **Status**P-PlannedO-OngoingC-Completed S-superseded | **Contact Person(s)** | **Related Pubs / Standard** | **Remarks** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| D.1 | Monitor and assess proposals for amending S- 12 | M | Next meeting | 2014 | Permanent | O |  | S-12 | In close liaison with IALA; see J.5.1 |
| F.1 | Assess the progress and perspectives of developing specifications for NP data layers in ECDIS and propose the way forward for consideration by HSSC | H |  | 2015 | Permanent | O |  |  | To be considered in the context of the IMO e-navigation strategy implementation.NIPWG to consider establishing one or more project team(s) in liaison with S-100WG as required (see J.2), in particular to continue the development of Product Specifications currently assigned to the NIPWG. |
| F.2 | Investigate the interaction between Marine Protected Area Product and ENC in ECDIS | H | Draft Product Specification for Marine Protected Areas (S-122) released in 2018 | 2015 | Permanent | O | Chair/Sec |  | In close liaison with the S-100 WGOn target for endorsement by Council - 2. |
| F.3 | Model the NP data where required. | H | Next meeting | 2004 | Permanent | O | Chair/Sec |  | S-100 related. To be included in Hydro domain of the FCD Register. |
| F.4 | Review of objects and attributes | H | Next meeting | 2004 | Permanent | O | Chair/Sec |  | S-100 related. |
| F.5 | Propose amendments to HYDRO domain of the FCD Register | H |  | 2005 | Permanent | O | Chair/Sec |  | S-100 related. To be included in the FCD register |
| F.8.1 | Develop S-12n - Nautical Information Product Specification |  |  |  |  |  |  |  |  |
| F.8.1.1 | For Radio Services | H | next NIPWG meeting | 2012 | 2019 | O | Chair/Sec | S-123 |  |
| F.8.1.2 | For Navigational services | L | next NIPWG meeting | 2013 |  | P | Chair/Sec | S-125 | On Hold |
| F.8.1.3 | For Traffic management | H | next NIPWG meeting | 2013 | 2021 | O | Chair/Sec | S-127 |  |
| F.8.1.3.1 | For Marine Protected Areas | H | next NIPWG meeting | 2011 | 2019 | O | Chair/Sec | S-122 |  |
| F.8.1.4 | For Physical environment | L | next NIPWG meeting | 2013 |  | P | Chair/Sec | S-126 | On Hold |
| F.8.1.5 | Catalog of nautical products | H | next NIPWG meeting | 2016 | 2021 | O | Chair/Sec | S-128 |  |
| G.1 | Monitor the requirements for and provision of nautical information in e-navigation test-bedsProduce NP1 sample data sets |  |  |  |  |  |  |  | According to the tasks assigned by HSSC4. Collection of information to be modelled |
| G.1.3 | For Traffic management | H | next meeting | 2012 | 2018 | O | Chair/Sec | S-127 |  |
| G.1.4 | For Physical environment | L | next meeting | 2013 |  | O | Chair/Sec | S-126 |  |
| G.3 | Rules and guidelines for displaying nautical information in ECDIS and in combined Marine Service Portfolios |  |  |  |  |  |  |  |  |
| G.3.1 | Develop basic display principles for NP data intended for use in ECDIS (NP3) | H |  | 2008 |  | O | Chair/Sec | S-52 | Close co-operation with NCWG and S-100WG required. Interoperability Spec to be considered. |
| G.3.2 | Monitor and contribute to the development of IMO guidelines showing how navigation information received by communications equipment can be displayed in a harmonized way and what equipment functionality is necessary. | M |  | 2015 | 2019 | O |  | S-52 | e-nav IMO Strategy Implementation Plan, Task T13 (HSSC6-07.1A refers)Output number 5.2.6.2 of NCSR biennial agenda 2016-17 |
| G.5 | Contribute to considering the future of paper charts in the perspective of the establishment of MSPs | M |  | 2014 |  | O |  |  | Subject to request from NCWG |
| I.1 | Maintain and extend resolutions in M-3 relating to Nautical Publications | M | Next meeting | 2012 | Permanent | O | Chair/Sec NIPWG | M-3 | A review is required due for the harmonization of M3 information and potential ProdSpecs content |
| J.0 | Liaise with the NCWG | M |  |  | Permanent | O | Chair/Sec NIPWG |  | Establish joint project teams as required and endorsed by HSSC. |
| J.1 | Liaise with the ENCWG | M |  |  | Permanent | O | Chair/Sec NIPWG |  |  |
| J.2 | Liaise with the S-100WG | H |  |  | Permanent | O | Chair/Sec NIPWG |  | Establish joint project teams as required and endorsed by HSSC. |
| J.2.1 | Draft Data Classification and Encoding Guides |  |  |  |  |  |  |  | Document for NPs similar to Use of the Object Catalog |
| J.2.3 | Draft Product Specification |  |  |  |  |  |  |  |  |
| J.2.3.2 | For Navigational services | L |  | - |  | P | Chair/Sec | S-125 |  |
| J.2.3.3 | For Traffic management | H |  | 2011 | 2021 | O | Chair/Sec | S-127 | Depends on contract award |
| J.2.3.5 | For Physical environment | L |  | - | - | P | Chair/Sec | S-126 |  |
| J.2.3.6 | For Digital Catalog of Nautical Product |  | Next meeting | 2016 | 2021 | O | Chair/Sec | S-128 |  |
| J.3 | Liaise with other HSSC WG  | M |  | 2004 | Permanent | O | Chair/Sec NIPWG |  |  |
| J.4 | Liaise with IRCC |  |  |  |  |  |  |  |  |
| J.4.1 | Liaise with WWNWS Sub-Committee |  |  |  |  |  |  | S-124 | Monitor developments of S-124 Correspondence Group |
| J.5 | Liaise with other international bodies which contribute to nautical information | H |  | 2015 | Permanent | O | Chair/Sec NIPWG |  |  |
| J.5.1 | Liaise with IALA e-Nav Committee | H |  | 2013 | Permanent | O | Chair/Sec NIPWG |  |  |
| J.5.2 | Liaise with International Harbor Masters’ Association | L |  | 2015 | Permanent | O | Chair/Sec NIPWG |  | See outcome HSSC8 Section 7.10 of the minutes |
| J.5.3 | Liaise with International Cable Protection Committee (ICPC) | M |  | 2016 | Permanent | O | Chair/Sec NIPWG |  | MOU signed between IHO and ICPC |

**Meetings** (Task K)

|  |  |  |
| --- | --- | --- |
| **Date** | **Location** | **Activity** |
| 12–16 March 2018 | Genoa, Italy | NIPWG5 |
| Jan 2019 | Rostock, Germany | NIPWG6 |
| Nov 2019 | St. Petersburg, Russian Federation – tbc (fallback Monaco), eventually India (inivitation expected) | NIPWG7 |
| Sept 2020 | Brest (tbc), France  | NIPWG8 |

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 Secretary: Thomas Loeper, NOAA, USA Email: Thomas.Loeper@noaa.gov

## 5. ENCWG WORK PLAN 2018-19

**Tasks**

|  |  |
| --- | --- |
| A | Maintain S-52 “Specifications for Chart Content and Display Aspects of ECDIS” and its associated “Presentation Library” (IHO Task 2.4.1) |
| B | Maintain S-57 “IHO Transfer Standard for Digital Hydrographic Data”, including ENC Product Specification (IHO Task 2.4.2) |
| C | Maintain S-58 “Recommended ENC validation checks” (IHO Task 2.4.3) |
| D | Maintain S-61 “Product Specification for Raster Navigational Charts” (IHO Task 2.4.4) |
| E | Maintain S-64 “IHO Test Data Sets for ECDIS” (IHO Task 2.4.6) |
| F | Maintain S-65 “ENC Production, Maintenance and Distribution Guidance” (IHO Task 2.4.7) |
| G | Assess the impact of other IHO standards on S-52 display specifications (IHO Task 2.4.1) |
| H | Liaise with the NIPWG and the NCWG (IHO Task 2.1) |
| I | Maintain the ENC production and portrayal sections of the IHO website (IHO Task 2.4) |
| J | Conduct the 2017 and 2018 meetings of ENCWG and its sub-group(s) and project team(s) (IHO Task 2.1) |
| K | Maintain S-66 “Facts about electronic charts and carriage requirements – (IHO Task 2.4.8) |
| L | Consider the development of high density contour lines related to ENCs (IHO Task 2.4) |
| M | Maintain and monitor the existing S-63 standard (IHO Task 2.4.5) |

**Work items**

| **Work item** | **Title** | **Priority**H-highM-mediumL-low | **Next milestone** | **Start****Date** | **End****Date** | **Status**P-plannedO-ongoingC-completedS-Superseded | **Contact Person(s)** | **Related Pubs / Standard** | **Remarks** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| A.1 | Maintain S-52 - Specifications for Chart Content and Display Aspects of ECDIS | H | Next meeting |  | Permanent | O | Chair/Sec ENCWG | S-57 |  |
| A.2 | Resolve any problems or errors identified in the current editions of S-52 Presentation Library and S-64 ENC Test Datasets | H |  |  | Permanent | O | Chair/Sec ENCWG | S-57, S-64 | Generally OEMs going through type approval with ECDIS will identify areas for clarification or correction |
| A.3 | Investigate ENC display issues in ECDIS | H |  | Mar-17 | Mar-19 | P | Christian Mouden | S-57 |  |
| A.4 | With respect to the implementation of S-52 PL4.0; monitor the Paris and Tokyo MoU CIC on Safety of Navigation and take appropriate action where necessary | M | Next meeting |  | 2019 | O | Chair ENCWG |  |  |
| A.5 | Monitor and assist the ECDIS S-mode work which will be an agenda item at NCSR5 |  |  |  | 2019 | O | Chair ENCWG |  |  |
| B.1 | Maintain S-57 “IHO Transfer Standard for Digital Hydrographic Data, including ENC ProductSpecification” | H |  |  | Permanent | O | Chair/Sec ENCWG | S-52, S-58 |  |
| B.2 | Resolve any problems or errors identified in the current edition of S-57 | H |  |  | Permanent | O | Chair ENCWG | S-57 |  |
| B.3 | Produce T&P paper for PSC See K.2 | M |  | 2018 |  |  | Chair ENCWG |  |  |
| B.4 | Maintain the ENC portrayal sections of the IHO website. | M |  |  | Permanent | O | Chair/Sec ENCWG |  |  |
| C.1 | Resolve any problems or errors identified in the current edition of S-58 | H |  |  | Permanent | O | Richard Fowle  |  |  |
| C.2 | Monitor the implementation of the new edition of S-58 and keep the recommended checks up to date | H |  | Sept-2017 | July-2018 | O | Richard Fowle  | S-57 |  |
| E.1 | Resolve any problems or errors identified in the current edition of S-64 | H |  |  | Permanent | O | Chair/Sec ENCWG |  |  |
| F.1 | Monitor and assess proposals for amending S-65 | L |  |  | Permanent | O | Chair/Sec ENCWG |  |  |
| G.1 | Liaise with IEC TC80 to ensure that future editions of IEC 61174 are compatible with standards maintained by ENCWG | M |  |  | Permanent | O | Chair/Sec ENCWG | S-52, IEC 61174 |  |
| H.1 | Liaise with the NIPWG and the NCWG | H |  |  | Permanent | O |  |  |  |
| I.1 | Maintain the ENC production and portrayal sections of the IHO website, and support FAQ and Encoding Bulletins | H |  |  | Permanent | O | Chair / IHO Sec |  |  |
| K.1 | Maintain S-66 Publication |  |  |  | Permanent | O | Chair / IHO Sec |  |  |
| K.2 | Prepare a single educative IHO authoritative document addressing the issue of “equivalent” T&P NMs for ENCs, in view of its distribution to HOs, Port State Control authorities and mariners after approval. (See B.3) | M |  |  |  | P | Thomas Mellor (UKHO) and NCWG Chair |  |  |
| M.1 | Maintain and monitor the existing S-63 protection scheme  | M |  | 2016 | Permanent | O | Jonathan Pritchard (UKHO) | S-63 |  |

**Meetings** (Task J)

|  |  |  |
| --- | --- | --- |
| **Date**  | **Location** | **Activity** |
| 14 – 18 March 2016 | Tokyo, Japan | ENCWG-1 |
| 20-22 March 2017 | Genoa, Italy | ENCWG-2 |
| 16-18 April 2018 | Wollongong, Australia | ENCWG-3 |

Chair: Thomas Mellor, UK Email: tom.mellor@ukho.gov.uk
Vice Chair: Mikko Hovi, FI Email: mikko.hovi@liikennevirasto.fi
Secretary: AD Anthony Pharaoh, IHO Sec. Email: addt@iho.int

## 6. Left blank intentionally

**Tasks**

|  |  |
| --- | --- |
| A |  |
| B |  |
| C |  |

**Work items**

| **Work item** | **Title** | **Priority**H-highM-mediumL-low | **Next milestone** | **Start****Date** | **End****Date** | **Status**P-plannedO-ongoingC-completedS-Superseded | **Contact Person(s)** | **Related Pubs / Standard** | **Remarks** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| A |  |  |  |  |  |  |  |  |  |
| B |  |  |  |  |  |  |  |  |  |
| C |  |  |  |  |  |  |  |  |  |

**Meetings**

|  |  |  |
| --- | --- | --- |
| **Date**  | **Location** | **Activity** |
|  |  |  |

Chair:
Vice Chair:
Secretary:

## 7. TWCWG WORK PLAN 2018-19

**Tasks**

|  |  |
| --- | --- |
| A | Maintain the list of standard tidal constituents (IHO Task 2.8.4) |
| B | Compare the tidal predictions generated as a result of analysis of a common data set using different analysis software (IHO Task 2.8) |
| C | Develop, maintain and extend a Product Specification for digital tide and tidal current tables (IHO Task 2.8) |
|  |  |
|  |  |
| F | Develop, maintain and extend a Product Specification for dynamic surface currents in ECDIS (S-111) (IHO Tasks 2.3.4 and 2.8) |
| G | Develop, maintain and extend a Product specification for dynamic water level in ECDIS (S-104) (IHO Tasks 2.3.4 and 2.8) |
| H | Liaise with S-100WG on water level and current matters relevant to ECDIS applications (IHO Task 2.3) |
| I | Liaise with industry experts on the development of product specifications for water level and currents (IHO Task 2.8) |
| J | Prepare and maintain an inventory of water level gauges and current meters used by Member States and publish it on the IHO/TWCWG web site (IHO Task 2.8.5) |
| K | Review and maintain the Actual Tides and Currents On-Line links as published on the IHO TWCWG website (IHO Task 2.8) |
| L | Maintain and extend the relevant IHO standards, specifications and publications as required (IHO Tasks 2.1) |
| M | Conduct at least annual meetings of TWCWG and its sub-group(s) and project team(s) (IHO Tasks 2.1) |
| N | Develop and maintain material for course on Tides, Water Levels and Currents (IHO Task 2.8) |

**Work items**

| **Work item** | **Title** | **Priority**H-highM-mediumL-low | **Next milestone** | **Start****Date** | **End****Date** | **Status**P-plannedO-ongoingC-completedS-Superseded | **Contact Person(s)** | **Related Pubs / Standard** | **Remarks** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| A.1 | Maintain the list of standard tidal constituents | M |  | - | Permanent | O | Chris Jones\* |  | Review current list of published tidal constituents |
| B.1 | Compare the tidal predictions generated as a result of analysis of a common data set using different analysis software. | M |  | - | Permanent | O | Hilde Sande Borck \*All |  | Select Common data setAnalyze using different softwarePredict common set of tidesCompare results |
| C.1 | Develop, maintain and extend the standard for digital tide and tidal current tables | H | Prepare final draft Standard | 2009 | ~~2016~~~~2017~~2018 | O | Peter Stone\*Chris JonesZarina Jayaswal |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
| F.1 | Develop and maintain a product specification for dynamic application of surface currents in ECDIS (S-111) | H |  | 2013 | ~~2017~~2018 | O | Louis Maltais\*Kurt Hess |  | Establish joint project teams as required.Liaise with S-100WG (see H.1)Liaise with industry experts (see I.1) |
| G.1 | Develop and maintain a product specification for dynamic application of water levels in ECDIS | H | Develop draft Product Specifications (S-104) for water level information for surface navigation in S-100. | 2009 | ~~2017~~~~2018~~2019 | O | Zarina Jayaswal\*Glen RoweJimin Ko  |  | Establish joint project teams as required.Liaise with S-100WG (see H.1)Liaise with industry experts (see I.1) |
| H.1 | Liaise with S-100WG on water level and current matters relevant to ECDIS applications  | H |  | - | Permanent | O | Gwenaële JanKurt Hess |  | Establish joint project teams as required. |
| I.1 | Liaise with industry experts on the development of product specifications for water levels and currents | H |  | - | Permanent | O | All |  |  |
| J.1 | Maintain an inventory of water level gauges and current meters used by Member States and publish it on the IHO/TWCWG web site. | H |   | - | Permanent | O | David Wyatt\*All |  | Initial inventory from TWCWG members available on IHO web site. |
| K.1 | Review and maintain the Actual Tides and Currents On-Line links as published on the IHO TWCWG website | L |  | - | Permanent | O | David Wyatt\*All |  |  |
| L.1 | Maintain and extend the relevant IHO standards, specifications and publications | M |  | - | Permanent | O | Gwenaële Jan | IHO Resolutions in M-3S-60 User’s Handbook on Datum Transformations involving WGS 84 | See IHO CL10/2017 dated 1/02/2017 |
| N.1 | Develop and maintain material for CB course on Tides and Tide gauges | H | Complete translate of course material into French, Spanish and Portuguese by 2018 in liaison with Regional CB Coordinator requirements | - | Permanent | O | Ruth Farre\*Peter StoneZarina JayaswalGwenaële JanCesar Borba |  | Adapt currently available course material to create a course suitable for delivery in support of CBSC requests |

**Meetings** (Task N)

|  |  |  |
| --- | --- | --- |
| **Date** | **Location** | **Activity** |
| 25-28 Mar 2014 | Wollongong, Australia | TWLWG-6 |
| 3-5 Jun 2014 | Québec City, Canada | SCWG-2 |
| 21-24 April 2015 | Silver Spring, Maryland, USA | TWLWG-7 |
| 13-15 May 2015 | Tokyo, Japan | SCWG-3 |
| 25-29 April 2016 | Niterói, Brazil | TWCWG-1 |
| 8-12 May 2017 | Victoria, Canada | TWCWG-2 |
| 16-20 April 2018 | Valparaíso, Chile | TWCWG-3 |

Chair: Gwénaële Jan, FR Email:gwenaele.jan@shom.fr
Vice Chair: Louis Maltais, CA Email: Louis.maltais@dfo-mpo.gc.ca
Secretary: David Wyatt, IHO Sec. Email: adso@iho.int

## 8. NCWG WORK PLAN 2018-19

**Tasks**

|  |  |
| --- | --- |
| A | Maintain and extend Publication S-4 'Chart Specifications of the IHO & Regulations of the IHO for INT Charts' (IHO Task 2.2.1) |
| B | Maintain and extend Publication S-11 Part A ‘Guidance for the Preparation and Maintenance of INT Chart schemes’ (IHO Task 2.2.2) |
| D | Development of new (and revised) symbology (IHO Task 2.2.1) |
| E | Maintenance of S-4 supplementary publications INT 1, 2 & 3 (IHO Task 2.2.1) |
| G | Conduct meetings of NCWG (IHO Task 2.1) |
| H | Provide technical assistance to other IHO working groups and support regarding the implementation of S-100 (IHO Task 2.3) |

**Work items**

| **No** | **Work item** | **Priority**H-highM-mediumL-low | **Next Milestone** | **Start****Date** | **End****Date** | **Status**P-PlannedO-OngoingC-Completed | **Contact Person(s)** | **Affected Pubs/Standard** | **Remarks** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| A16 | Consideration of the ‘future of the paper chart’ | H | Circulate draft table of contents of the report on the “future of the paper chart”to WGThen, allocate tasks to Future of Paper Chart sub-group Members | 2014 | 2018 | O | Colby Harmon |  | CSPCWG10 Action 36NCWG1 Action 54Meeting following NCWG2NCWG3 Action 12Report at HSSC9 |
| A26 | Portrayal subWG | H | Agree protocol for seeking advice from NCWG | 2016 |  | O | Chair NCWG |  | HSSC7 Action 18NCWG2 Actions 5, 22, 30-32Attendance at NIPWG Visualization workshop May 2017. Report to HSSC9 for approval by other WGs. |
| A28 | Future of S-4 |  | Progress with A16 |  |  | P | Chair NCWG | S-4 | NCWG3 Agenda 7.4: waiting on progress with A16 |
| A29 | Consider ICPC submission on charting submarine cables taking into account deep sea mining | L | Chair to communicate with ICPC.Sec to confirm nothing in S-4 contradictory to Res.4/1967 as amended. |  |  | P | Chair NCWG | S-4 | HSSC8/68 (pending submission from ICPC).ICPC unavailable for discussion at NCWG3.NCWG3 Action 19 |
| A30 | Check the impact of the IHO Resolution 3/1919 as amended on S-4 when it is approved | L | Submit change to HSSC9 for approval if appropriate | 2016 | 2018 | O | Sec NCWG | S-4, INT1 | Ref. IHO CL 27/2016 and CL 10/2017NCWG3 Action 27 |
| A31 | Revise S-4 A-500 for digital repromat | M | Circulate draft revised A-500 for WG members comment | 2017 | 2018 | P | Sec NCWG | S-4 | NCWG3 Action 31 |
| E1 | Maintain official INT 1s |  | Planning for next editions by INT1 sub-WG  |  |  | O | DE: S Spohn FR: S GuillouES: F. Yanguas | INT 1 | English version 2015 (Ed 8) French version 2016 (Ed 6)Spanish version 2015(Ed 5) |
| E9 | Develop new section V for INT1 for ‘data quality’ | M | Draft to WG | 2014 | 2018 | O | Chair NCWGUK | INT1 | CSPCWG10 Action 35NCWG3 Agenda 11.2: Transferred to UK |
| E10 | Symbol library | L | Report to HSSC9 and remove | 2016 |  | O | ~~UK (J Carey)~~US (C Harmon) | S-4, INT1 | NCWG Actions 45, 46NCWG3 Agenda 3: Not required to progress at this time. |
| H1 | Liaise with IHO subsidiary bodies and subordinate organs, e.g. WWNWS-SC, NIPWG, ENCWG, SCUFN, etc. | L | Business as usual, report to HSSC9 and remove | 2016 |  | O | Chair and Sec NCWG | S-4, INT1, S-32 | Support the UFN Project Team, see Doc. HSSC8-07.1C INF3NCWG Agenda 7.6: J Barone appointed as POC for UFN PT. |
| H2 | Prepare 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. | M | Chair to circulate revised draft to WG members for comment | 2016 |  | O | NCWG Chair and ENCWG Chair | S-66 Stage 2? | HSSC8/28NCWG3 Action 15 |
| H3 | Consider the paper on the “visualization of bathymetric uncertainties data in S-101” (Doc. HSSC8-05.6B INF6) and develop appropriate recommendations on the way forward. | M | Chair to report to DE and HSSC9. | 2016 |  | P | NCWG Chair | S-101 | HSSC8/39NCWG Action 20 |

\* Allowing for approval via HSSC (in accordance with Resolution 2/2007) before MS and publication.

**Meetings** (Task G)

|  |  |  |
| --- | --- | --- |
| **Date**  | **Location** | **Activity** |
| 26-29 April 2016 | IHB, Monaco | NCWG2 |
| 16-19 May 2017 | Redlands, CA, USA | NCWG3 |
| 6-9 November 2018 | The Hague, Netherlands | NCWG4 |

Chairman: Mikko Hovi (FI) Email: mikko.hovi@liikennevirasto.fi
Vice Chairman: Jackie Barone (US) Email: Jacqueline.barone@nga.mil
Secretary: Andrew Heath-Coleman (UK) Email: andrew.coleman@ukho.gov.uk

## 9. DQWG WORK PLAN 2018-19

**Tasks**

1. Develop and maintain a data quality checklist for product specification developers (IHO Task 2.8)
2. Periodically review S-100 based product specifications to ensure the data quality aspects have been taken into consideration and provide input papers for WGs and PTs consideration if deemed necessary (IHO Task 2.3)
3. Monitor periodically developments of ISO and other international standards regarding quality information, and advise the S-100WG accordingly (IHO Task 2.8)
4. Provide guidance on data quality aspects to hydrographic offices, in particular to ensure harmonized implementation (IHO Task 2.1 and 2.5.1)
5. Provide data quality educational material for the use of mariners (IHO Task 2.4.9)
6. Review appropriate methodology for the display of quality information to product specification developers (IHO Task 2.1)
7. Propose new data quality topics for consideration by HSSC (IHO Task 2.8)

**Work Items**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Task** | **Work Item** | **Priority**H-highM-mediumL-low | **Milestones** | **Start Date** | **End Date** | **Status**P-plannedO-ongoingC-Completed | **Contact Person** | **Affected Pubs/Standard** | **Remarks** |
| A.1 | Develop checklist on data quality components | H | HSSC10 | 2018 | 2019 | O | Rogier Broekman | All S-100 | To be used when checking S-100 product specifications |
| B.1 | Review S-101 Data Classification Encoding Guide | H | DQWG13 | 2018 | 2018 | C | Sean Legeer | S-101 DCEG | Workshop DQWG13 |
| B.2 | Development of a “minimum” standard for data validation in S-1xx based products | H | HSSC10 | 2018 | 2018 | O | Rogier Broekman | All S-100 | HSSC9/16 |
| C.1 | Review S-100 section 4C | H | HSSC10 | 2016 | 2018 | O | Rogier Broekman | S-100 Edition 4.0.0 | Handover to S-100WG |
| D.1 | Collect best practise of the use of CATZOC from HO’s | H | HSSC10 | 2018 | 2018 | C | Rogier Broekman |  | Workshop DQWG13 |
| D.2 | Provide recommendation for a guidance documentation on how to populate CATZOC values | M | HSSC11 | 2018 | 2019 | P | Rogier Broekman | To be submitted to NCWG | Ref IHO CL50/2017Considerations on CATZOC values for unsurveyed areas, adjacent cells, generalization, passage of time… |
| D.3 | Provide guidance documentation on the transition from S-57 CATZOC to S-101 QoBD | M | HSSC11 | 2018 | 2019 | P | Sean Legeer |  | Ref IHO CL50/2017 |
| D.4 | Collect best practice on how to assess ZOC from surveys | M | HSSC11 | 2018 | 2019 | O | France/US/All |  |  |
| E.1 | Submit editition 1.0.0 of S-67 for endorsement by HSSC.  | H | HSSC10 | 2018 | 2020 | O | Rogier Broekman | S-4, S-57 | HSSC9/36. |
| E.3 | Consider a video version of S-67 when approved by MS | M | HSSC12 | 2018 | 2020 | P | Rogier Broekman | S-67 | HSSC9/36 |
| F.1 | Continue development of Portrayal methodology of bathymetry quality in S-101 | H | HSSC11 | 2017 | 2019 | O | Rogier Broekman | S-101 DCEG | HSSC9/35 |

**Meetings**

|  |  |  |
| --- | --- | --- |
| **Date** | **Location** | **Activity** |
| 10-12 May 2016 | Silver Spring, USA | DQWG11 |
| 13-15 June 2017 | The Hague, Netherlands | DQWG12 |
| 15-19 January 2018 | IHO Secretariat, Monaco | DQWG13 |
| 5-8 February 2019 | IHO Secretariat, Monaco | DQWG14 |

Chair: Rogier Broekman, NL Email: R.Broekman.01@mindef.nl

Vice-Chair: Sean Legeer, US Email: sean.legeer@noaa.gov
Secretary: Vacant Email:

## 10. HDWG WORK PLAN 2018-19

**Tasks**

|  |  |
| --- | --- |
| A | Maintain and extend the definitions in the IHO S-32 Hydrographic Dictionary Registry (IHO Task 2.8.2 ) |
| B | Liaise with other IHO bodies preparing publications containing glossaries (IHO Task 2.8.2) |
| C | Liaise with other organizations developing dictionaries and/or glossaries (IHO Task 2.8.2) |
| D | Develop a digital structure and database application to support the IHO S-32 Hydrographic Dictionary Registry on-line version(IHO Task 2.8.2) |

**Work items**

| **Task**  | **Work item** | **Priority**H-highM-mediumL-low | **Next milestone** | **Start****Date** | **End****Date** | **Status**P-plannedO-ongoingC-completed | **Contact Person(s)****\* indicates leader** | **Related Pubs / Standard** | **Remarks** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| A | Review all terms currently included in S-32 for their relevance in accordance with the S-32 Business Rules and propose which definitions should be removed from S-32 | M | a. Terms a – db. Terms e – lc. Terms m – rd. Terms s – z | 2018201820182018 | 2019201920202020 | PPPP | Laporte | S-32 |  |
| D | Develop structure and database application to support the on-line dictionary | H |  | 2017 | 2018 | O | Armstrong | S-32 |  |

**Meetings** (IHO WP task 3.1.8)

|  |  |  |
| --- | --- | --- |
| **Date**  | **Location** | **Activity** |
| 25-26 July 2017 | London, UK | HDWG1 |
| tbc | tbc | HDWG2 |

Chair: Jean LAPORTE, France Email: jlaporte@shom.fr

Vice-Chair: Vacant Email:

Secretary: David WYATT, IHO Sec. Email: adso@iho.int

## 11. ABLOS WORK PLAN 2018-19

**Tasks**

|  |  |
| --- | --- |
| A | Organise the 10th ABLOS Conference in 2019 (IHO Task 2.7.1) |
| B | Maintain IHO Publication C-51 “Technical Aspects of the Law of the Sea (TALOS) Manual” (IHO Task 2.7.2) |
| C | Deliver a standard training program on the hydrographic aspects of maritime delimitation (IHO Task 2.8) |
| D | Provide advice and guidance on the technical aspect of the Law of the Sea to relevant organizations, bodies and Member States (IHO Task 2.8) |
| E | Organize and prepare ABLOS business meetings in 2018 and 2019 (IHO Task 2.1.2.8) |

**Work items**

| **Task**  | **Work item** | **Priority**H-highM-mediumL-low | **Next milestone** | **Start****Date** | **End****Date** | **Status**P-plannedO-ongoingC-completed | **Contact Person(s)****\* indicates leader** | **Related Pubs / Standard** | **Remarks** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| A1 | Organise 10th ABLOS Conference | H | Begin advertisingIdentify key note speakerAttract presentation abstracts | 201720172017 | 201920192019 | OCO | All members of ABLOS through Clive Schofield\* | N/A |  |
| B1 | Prepare draft 6th Edition of C-51 (TALOS Manual) for adoption by Member States | MHHMM | Generate draft new structure for chapter 3Review contents of chapters and identify areas requiring revisionReview initial French translation and propose amendmentsReview French translations of animations | 20132014201420182018 | 2016~~2016~~ ~~2017~~2018~~2016~~ ~~2017~~201820192019 | POOPP | Chris Carleton\*Marie-Françoise Lequentrec-Lalancette\*/Sunil BisnathClive Schofield\*/ Marie-Françoise Lequentrec-Lalancette | IHO Publication C-51 |  |
| C1 | Deliver standard training programmes for the CBSC | H |  | 2011 | Continuous | O | John Brown\* |  | Workshops planned in 2018 in the CBSC Work Plan. |
| D1 | Provide advice and guidance on the technical aspect of the Law of the Sea | H |  | Continuous |  | O | All members of ABLOS through the Chair |  |  |

**Meetings** (Tasks A & E)

|  |  |  |
| --- | --- | --- |
| **Date** | **Location** | **Activity** |
| 26 - 28 October 2016 | Seoul, Korea | ABLOS 23 |
| 9 - 12 October 2017 | IHO, Monaco | ABLOS 24 and 9th ABLOS Conference |
| 22 – 25 October 2018 | Qatar | ABLOS 25 |
| 7 - 10 October 2019 | IHO, Monaco | ABLOS 26 and 10th ABLOS Conference |

Chair: Niels Andersen Email: na@space.dtu.dk

Vice-Chair: Izabel King Jeck Email: izabel@dhn.mar.mil.br

Secretary: David Wyatt Email: adso@iho.int

## 12. COORDINATION WORK PLAN 2018-19

**Tasks**

|  |  |
| --- | --- |
| A | As required, establish Working Groups to fulfil the Committee Work Plan, monitor their work and review annually the continuing need for each Working Group previously established by the Committee (HSSC TOR) |
| B | Support the IHO Secretariat to implement the planning mechanism annually and at the end of each 3-year cycle (including preparation of next session of the IHO Assembly) |
| C | Organize, prepare and report meetings of HSSC working groups (IHO Task 2.1.2) |
| D | Conduct the 2018 and 2019 meetings of HSSC (IHO Task 2.1.1) |

**Work items**

| **Work item** | **Task** | **Priority**H-highM-mediumL-low | **Next milestone** | **Start****Date** | **End****Date** | **Status**P-plannedO-ongoingC-completedS-Superseded | **Contact Person(s)** | **Related Pubs / Standard** | **Remarks** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| A1 | Monitor and guide the work of the Standards for Hydrographic Surveys Project Team | H | HSSC-10 | HSSC-8 | 2019 | P |  | S-44 | Draft 6th Edition of S-44 for endorsement in 2019-20. |
| C1 | Consider the relevance of IHO Resolution 2/2007 | M |  | HSSC-7 | IHO-A2 | P |  | All, S-4 in particular |   |
| A2 | Amendment of HSSC TORs | H | HSSC-10 |  | IHO-C2 |  |  |  |  |

**Meetings** (Task D)

|  |  |  |
| --- | --- | --- |
| **Date**  | **Location** | **Activity** |
| Mar 2018 | Monaco | HSSC Chair meeting |
| 14-18 May 2018 | Rostock, Germany | HSSC-10 |
| May 2019 | Cape Town, South Africa | HSSC-11 |
|  |  |  |

HSSC Chair: Luigi Sinapi, Italy Email: luigi.sinapi@marina.difesa.it

HSCC Vice Chair: Mike Prince, Australia Email: mike.prince@defence.gov.au

HSSC Secretary: Abri Kampfer, IHO Sec. Email: dtech@iho.int

HSSC Assistant Secretary: Yves Guillam, IHO Sec. Email: adcs@iho.int

**Annex A STANDARDS for HYDROGRAPHIC SURVEYS PROJECT TEAM (HS PT) WORK PLAN 2018-19**

**Tasks**

|  |  |
| --- | --- |
| A | Review the existing edition of S-44 (5th edition) and identify any deficiencies in either the standards or explanatory content (IHO Task 2.6.1). |
| B | Identify Orders of Surveys (in terms of horizontal and vertical uncertainty requirements, feature detection requirements, and statistical confidence levels), which are required to meet certain user requirements, noting that user requirements include, but are not limited to, the differing levels of CATZOC (S-57) / Quality of Bathymetric Data (S-10X) (IHO Task 2.6.1). |
| C | Define, if and as appropriate, a relationship between survey orders in the IHO S-44 Publication and CATZOC used in S-57 ENC and Quality of Bathymetric Data in S-101 ENC (IHO Task 2.6.1). |
| D | Following review, update the content and structure of S-44 to the extent identified during the review, with the intention of publishing revisions as a sixth edition of S-44 (IHO Task 2.6.1). |
| E | Identify any other emergent requirements not addressed within the scope of tasks A to D, and develop a proposal and recommendations on whether the Hydrographic Survey Project Team should close, continue working on specific tasks, or be migrated to a standing Working Group with an expanded Work plan (IHO Task 2.1). |
| F | On completion of publication of a sixth edition of S-44, submit a proposal and recommendation to HSSC on whether the Project Team should continue as a standing Working Group and, if so, what tasks have been identified to justify transition to a standing Working Group (IHO Task 2.1).. |

**Work items**

| **Work item** | **Title** | **Priority**H-highM-mediumL-low | **Next milestone** | **Start****Date** | **End****Date** | **Status**P-plannedO-ongoingC-completedS-Superseded | **Contact Person(s)** | **Related Pubs / Standard** | **Remarks** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| A-1 | Review the existing edition of S-44 (5th edition) and identify any deficiencies in either the standards or explanatory content. | H | HSSC 9  | 2016 | 2017 | ~~P~~ C | Chair | S-44 Edition 5 |  |
| B-1 | Identify Orders of Surveys (in terms of horizontal and vertical uncertainty requirements, feature detection requirements, and statistical confidence levels), which are required to meet certain user requirements, noting that user requirements include, but are not limited to, the differing levels of CATZOC (S-57) / Quality of Bathymetric Data (S-10X). | H | HSSC 10  | 2017 | 2018 | ~~P~~ O | Chair / MS | S-44 Edition 5S-57 |  |
| C-1 | Define, if and as appropriate, a relationship between survey orders in the IHO S-44 Publication and CATZOC used in S-57 ENC and Quality of Bathymetric Data in S-101 ENC. | M | HSSC 9 & 10 | 2017 2018 | 20182019 | ~~P~~ OO | MS / Experts | S-44 Edition 5S-57S-101 |  |
| C-2 | Define, if and as appropriate, a relationship between survey orders in the IHO S-44 Publication and S-5 in order to mitigate the human element factor.  | M | HSSC 9 & 10 | 2017 2018 | 20182019 | ~~P~~ OO | MS / Experts | S-44 Edition 5S-5 |  |
| D.1 | Following review, update the content and structure of S-44 to the extent identified during the review, with the intention of publishing revisions as a sixth edition of S-44. | H | HSSC 10 | 2018 | 2019 | ~~P~~ O | MS / Experts / IHO Bodies | S-44 Edition 5 |  |
| E-1 | Identify any other emergent requirements not addressed within the scope of tasks A to D, and develop a proposal and recommendations on whether the Hydrographic Survey Project Team should close, continue working on specific tasks, or be migrated to a standing Working Group with an expanded Work plan. | H | HSSC 10 | 2018 | 2019 | ~~P~~ O | Chair / MS | C-13 |  |
| F-1 | On completion of publication of a sixth edition of S-44, submit a proposal and recommendation to HSSC on whether the Project Team should continue as a standing Working Group and, if so, what tasks have been identified to justify transition to a standing Working Group. | H | HSSC 9 & 10 | 2017 | 2019 | ~~P~~ O | MS/HSSC Bodies | C-13 |  |
| G-2 | Start the discussion on the way forward. | H | HSSC 10 | 2018 | 2019 | ~~P~~ O | MS/HSSC |  |  |

**Meetings**

|  |  |  |
| --- | --- | --- |
| **Date**  | **Location** | **Activity** |
| 20-22 June 2017 | Paris, France | HSPT1 |
| July 2018 | Niterói, Brazil | HSPT2 |

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PT Vice Chair: Nickolás de Andrade Roscher Email: nickolas.roscher@dhn.mar.mil.br

PT Secretary: David Wyatt Email: adso@iho.int