**HSSC WORK PLAN 2020-22**

*Version 14 November 2020*

*Notes:*

*a/ This consolidated work plan (WP) has been compiled from the reports submitted to HSSC-12 and following exchanges with HSSC WGs Chairs.*

*b/ The IHO Task numbers in every WG Work Plan refer to the IHO Work Programme 2 for 2020. They have not been checked against the IHO Work Programme 2021 as it has not been approved yet.*

*c/ Quick links:*

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| --- | --- | --- |
| *§3.* [*S-100WG Work Plan*](#_3.__S-100WG) | *§4.* [*NIPWG Work Plan*](#_4._NIPWG_WORK) | *§5.* [*ENCWG Work Plan*](#_5._ENCWG_WORK) |
| *§6*[*. HSWG Work Plan*](#HSWG) | *§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) |  |  |

**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.

**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 2020-2021

See Programme 2 in the [IHO Work Programme 2020](https://iho.int/uploads/user/IHO%20Work%20Programme/IHO_Work_Programme_for_2020_final.pdf) and [IHO Proposed IHO Work Programme 2021](https://iho.int/uploads/user/About%20IHO/Council/council4/C4_2020_05.2A_EN_Proposed_Work_Programme_2021_v1.pdf).

## 3. S-100WG WORK PLAN 2020-2022

**Tasks**

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| --- | --- |
| 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 2020 and 2021 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-high M-medium L-low | **Next milestone** | **Start**  **Date** | **End**  **Date** | **Status** P-planned O-ongoing C-completed S-Superseded | **Contact Person(s)** | **Related Pubs / Standard** | **Remarks** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| A.1 | Maintain and Extend S-100 | H | HSSC 14 | 2010 | Permanent | O | Julia Powell (NOAA) | S-100 | Edition 5.0.0 at HSSC13/14 |
| A.2 | Develop and Extend of S-98 Interoperability Specification | H | HSSC14 | 2015 | Permanent | O | Julia Powell (NOAA) |  | Draft Edition 1.0.0 to be submitted at HSSC-14 in May 2022 |
| A.3 | Develop and Monitor the protection scheme (S-63 equivalent component, S-100 Part 14) of S-100 based-products | M |  | 2016 | Permanent | O | Jonathan Pritchard (IIC)  Robert Sandvik (Primar) |  | Protection scheme workshop in 2022 |
| A.4 | Develop and Extend S-97 Guidebook for developing S-100 Product Specifications | M |  | 2018 | Permanent | O | Julia Powell |  |  |
| A.5 | Develop and Maintain S-164 Test Data Sets for S-100 and ECDIS Type Approval | H | HSSC14 | 2020 | Permanent | P | Julia Powell (NOAA) | S-100/S-1xx | Edition 1.0.0 targeted for HSSC14 (2022) |
| B.2 | Establish and maintain expert group for the hydro domain: | M |  | 2016 | Permanent | P | Julia Powell (US) |  | Action HSSC8/14 (membership and TORs) |
| C.1 | Maintain and Extend the S-100 GI Register in alignment with S-100 (includes Portrayal) | H |  | 2015 | Permanent | O | Yong Baek (IHO Sec.)  Iji Kim (KHOA) |  | Improvement to be aligned with S-100 Ed.5.0.0 |
| C.2 | Develop and Maintain the S-100 Feature Catalogue Builder | H |  | 2015 | Permanent | O | Yong Baek (IHO Sec.)  Iji Kim (KHOA) |  | Improvement to be aligned with S-100 Ed.5.0.0 |
| C.3 | Develop and Maintain the S-100 Portrayal Catalogue Builder | H |  | 2015 | Permanent | O | Yong Baek (IHO Sec.)  Iji Kim (KHOA) |  | Improvement to be aligned with S-100 Ed.5.0.0 |
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|  |  |  |  |  |  |  |  |  |  |
| D.3 | Develop Edition 2.0.0 of S-101 | H |  | 2015 | 2023/2024 | O | Tom Richardson (IC-ENC) |  | Operational Edition of S-101 will be at 2.0.0 |
| D.4 | Monitor the implementation of the S-101 ENC product specification (post Edition 2.0.0) | H |  | 2015 |  | P | Julia Powell (NOAA) |  | Action HSSC8/19 (Impact on IMO Performance Standards ?)  Participate in IMO NCSR revision of MSC 232(82) - Performance Standards for ECDIS expected to commence in 2022 |
| D.5 | Develop and Maintain an S-100/S-101 Test Strategy and Test Bed | H |  | 2013 | Permanent | O | Julia Powell (NOAA) |  |  |
| D.6 | Develop and Maintain S-102 Bathymetric Content Specification. | H |  | 2014 | 2023 | P | Lawrence Haselmaier (NGA) |  | Edition 3.0.0 will be the operational Edition |
| D.7 | Develop and maintain S-129 Product Specification for Underkeel Clearance Management (UKCM) Information. | M |  | 2016 | 2023 | P | Nick Lemon (AMSA) |  | Decision HSSC8/17  Edition 2.0.0 will be the operational edition |
| D.8 | Develop S-121 Product Specification for Maritime Limits and Boundaries | M |  | 2016 | 2022 | O | Mark Alcock (Geoscience Australia) |  | Edition 1.0.0 published in October 2019. Currently in the testing phase. |
| D.9 | Develop Dual Fuel concept of S-100 ECDIS | H |  | 2020 | 2023 | O | Julia Powell(NOAA) |  |  |
| E.1 | Monitor the development of other related international standards and other S-100 based products out of the IHO remit | 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 | Hannu Peipponen (IEC) |  |  |
| 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 |
| 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 | Yong Baek (IHO Sec.) |  |  |

**Meetings** (Task H)

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| --- | --- | --- |
| **Date** | **Location** | **Activity** |
| 28 Feb – 1 Mar 2019 | Aalborg, Denmark | S-100WG-4 |
| 23-26 Sept 2019 | Monaco | S-100 TSM-7 |
| March 2020 | Taunton, United Kingdom | S-100WG-5 |
| March 2021 | VTC | S-100 TSM-8 |
| January 2022 | Monaco | S-100WG-6 |

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

Vice Chair: Elizabeth Hahessy (Denmark) Email: elihh@gst.dk

Secretary: Yong Baek, IHO Secretariat Email: yong.baek@iho.int

## 4. NIPWG WORK PLAN 2020-22

**Tasks**

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| --- | --- |
| D | Maintain Publication S-12 “Standardization of List of Lights and Fog Signals” (IHO Task 2.8.1) |
|  | *Left intentionally blank* |
| 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~~ maritime services as defined by IMO in the context of e-navigation 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 maritime services as defined by IMO (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 2.1.8) |
| K | Conduct the 2020 and 2021 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-medium  L-low | | | **Next Milestone** | | | **Start Date** | | **End Date** | **Status**  P-Planned  O-Ongoing  C-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 S-100 product specifications for NP data 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 | | | Next meeting | | | 2015 | | Permanent | O | | Chair/Sec | |  | In close liaison with the S-100 WG |
| 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  Propose amendments to HYDRO domain of the FCD Register | | H | | | Next meeting | | | 2004 | | Permanent | O | | Chair/Sec | |  | S-100 related.  Incorporate in FCD Register if appropriate. |
| F.8.1 | | Develop S-1xx Nautical Information Product Specification | |  | | |  | | |  | |  |  | |  | |  |  |
| F.8.1.2 | | For Marine Navigational Services | | L | | | next NIPWG meeting | | | 2013 | |  | P | | Chair/Sec | | S-125 | On Hold IALA offers to develop draft, NIPWG accept; see Action item NIPWG 6/25 |
| F.8.1.4 | | For Marine Physical Environment | | L | | | next NIPWG meeting | | | 2013 | | 2026 | O | | Chair/Sec | | S-126 |  |
| F.8.1.5 | | Catalog of nautical products | | M | | | next NIPWG meeting | | | 2016 | | 2021 | O | | Chair/Sec | | S-128 | Development continued by KHOA |
| F.8.1.6 | | Marine Harbour Infrastructure | | H | | | next NIPWG meeting | | | 2020 | | 2024 | O | | Chair/Sec | | S-131 |  |
| F.8.2 | | Draft Data Classification and Encoding Guides | | |  | | |  | |  | |  |  | |  | |  | Document for NPs similar to Use of the Object Catalog |
| F.8.2.1 | | For Marine Navigational Services | | | M | | |  | | - | |  | P | | Chair/Sec | | S-125 | In close liaison with IALA, see J.5.1 |
| F.8.2.2 | | For Physical Environment | | | M | | | Next meeting | | - | | - | P | | Chair/Sec | | S-126 |  |
| F.8.2.3 | | For Digital Catalogue of Nautical Product | | | H | | | Next meeting | | 2016 | | 2021 | O | | Chair/Sec | | S-128 | In progress |
| F.8.2.4 | | For Marine Harbour Infrastructure | | | H | | | Next meeting | | 2020 | | 2024 | O | | Chair/Sec | | S-131 |  |
| F.8.3 | | Monitor and Maintain NIPWG Product Specification | | H | | | Next meeting | | | 2019 | |  | O | | Chair/Sec | |  | S-122, S-123 and S-127 under 2 year revision cycle |
| G.1 | | Monitor the requirements for, and provision of, nautical information in e-navigation test-beds  Produce NP1 sample data sets |  | | |  | | |  | |  | |  | |  |  | According to the tasks assigned by HSSC4. Collection of information to be modelled |
| G.3 | | Rules and guidelines for displaying nautical information in ECDIS and in maritime services as defined by IMO |  | | |  | | |  | |  | |  | |  |  |  |
| G.3.1 | | Develop basic display principles for NP data intended for use in ECDIS (NP3) | M | | |  | | | 2008 | |  | | O | | Chair/Sec |  | 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 | |  |  | e-nav IMO Strategy Implementation Plan, Task T13 (HSSC6-07.1A refers)  Output number 5.2.6.2 of NCSR biennial agenda 2016-17  Completion date is unknown and dependent on the maturity of interoperability and portrayal frameworks  For HSSC consideration |
| 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 M-3 information and potential ProdSpecs content |
| J.3 | | Liaise with other HSSC WG | M | | |  | | | 2004 | | Permanent | | O | | Chair/Sec NIPWG |  |  |
| J.3.1 | | Liaise with the NCWG | | | M |  | | |  | | Permanent | | O | | Chair/Sec NIPWG | |  | Establish joint project teams as required and endorsed by HSSC. |
| J.3.2 | | Liaise with the ENCWG | | | M |  | | |  | | Permanent | | O | | Chair/Sec NIPWG | |  |  |
| J.3.3 | | Liaise with the S-100WG | | | H |  | | |  | | Permanent | | O | | Chair/Sec NIPWG | |  | Establish joint project teams as required and endorsed by HSSC. |
| 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 | H | | |  | | | 2013 | | Permanent | | O | | Chair/Sec NIPWG |  |  |
| J.5.2 | | Liaise with International Harbor Masters’ Association (IHMA) | L | | |  | | | 2015 | | Permanent | | O | | Chair/Sec NIPWG |  |  |
| J.5.3 | | Liaise with International Cable Protection Committee (ICPC) | L | | |  | | | 2016 | | Permanent | | O | | Chair/Sec NIPWG |  |  |

**Meetings** (Task K)

|  |  |  |
| --- | --- | --- |
| **Date** | **Location** | **Activity** |
| July, August, September 2020 | Video Conferences |  |
| March 2021 | Virtually, hybrid or Monaco | NIPWG8 |
| Sept 2022 | Niteroi, Brazil (invitation confirmed) | NIPWG9 |
| Sept 2023 | Monaco | NIPWG10 |
|  |  |  |

Chair: Jens Schröder-Fürstenberg, BSH, GE Email: [jens.schroeder-fuerstenberg@bsh.de](mailto:jens.schroeder-fuerstenberg@bsh.de)  
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Top three work items:

* Initiate prototype implementation of existing S-1xx products in an S-100 based environment to explore governance architecture and service delivery mechanism
* Develop S-1xx nautical information Product Specifications
* Coordinate the IHO contributions to the definition and harmonisation of maritime services as defined by IMO within the remit of IHO

## 5. ENCWG WORK PLAN 2020-22

**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 2020 and 2021 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-high M-medium L-low | **Next milestone** | **Start**  **Date** | **End**  **Date** | **Status** P-planned O-ongoing C-completed S-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 |
| B.1 | Maintain S-57 “IHO Transfer Standard for Digital Hydrographic Data, including ENC Product  Specification” | 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 | 2017 | 2018 |  | C | Chair ENCWG |  | Complete, suggest remove this Work Item |
| B.4 | Maintain the ENC portrayal sections of the IHO website. | M |  |  | Permanent | O | Chair/Sec ENCWG |  |  |
| B.5 | S-57 to S-101 Conversion. Improving encoding rules with additional attribution to support automated conversion tools | H |  | Oct 2020 |  | O | Christian Mouden  Jonathan Pritchard | S-57 UOC | New work item added, approved by HSSC 12 |
| 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 |  | Oct-2020 |  | O | Richard Fowle | S-57 | New work item, HSSC 12 approved NE of S-58 |
| 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 |  |  |
| M.1 | Maintain and monitor the existing S-63 Data Protection Scheme | M |  | 2016 | Permanent | O | Chair, RENCs, Industry and IHO Sec. | S-63 |  |
| M.2 | Assessment of S-63 impact study and potential production of a new edition of S-63. | H |  | 2019 | 2021 | O | Chair, RENCs, Industry and IHO Sec. | S-63 |  |

**Meetings** (Task J)

|  |  |  |
| --- | --- | --- |
| **Date** | **Location** | **Activity** |
| 10-12 June 2019 | Monaco | ENCWG-4 |
| 15 - 16 July 2020 | VTC | ENCWG-5 |
|  |  |  |

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## 6. HYDROGRAPHIC SURVEYS WORKING GROUP WORK PLAN 2021-22

**Tasks** (Note: following tasks prepared for indication only iaw with HSWG TORs

|  |  |
| --- | --- |
| A | Maintain IHO publication S-44 – Standards for Hydrographic Surveys – preparing and proposing revisions and amendments to reflect changes in the demands of hydrographic data users, particularly those pertaining to data quality and standards. |
| B | Update IHO publication C-13 – *IHO Manual on Hydrography* – to reflect current techniques, methodologies and survey systems, in particular to ensure harmonization with the standards articulated in S-44. |
| C | Support the education on the use of S-44 by developing supporting documentation to articulate best practice guidance. |
| D | Support the translation task for S-44 and C-13 to enable their widest possible application and use. |
| E | Maintain close liaison with other HSSC and IRCC working groups, in particular the work of the Data Quality Working Group (DQWG) to meet the presentation/visualization requirements of nautical data to the maritime customer, and the CBSC to support the educational and best practice elements. |
| F | Identify new systems, technologies and methodologies and exchange experiences, best practice and challenges amongst member states in line with the IHO objectives. |
| G | Act as a focal point for hydrographic surveys industry engagement with the IHO. |

**Work items**

| **Work item** | **Title** | **Priority** H-high M-medium L-low | **Next milestone** | **Start**  **Date** | **End**  **Date** | **Status** P-planned O-ongoing C-completed S-Superseded | **Contact Person(s)** | **Related Pubs / Standard** | **Remarks** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| A |  |  |  |  |  |  |  |  |  |
| B |  |  |  |  |  |  |  |  |  |
| C |  |  |  |  |  |  |  |  |  |

**Meetings**

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

Chair:   
Vice Chair:   
Secretary:

## 7. TWCWG WORK PLAN 2020-22

**Objective**

1. To monitor developments related to tidal and water level observation, analysis and prediction and other related information including vertical and horizontal datums;
2. To develop and maintain the relevant IHO standards, specifications and publications for which it is responsible in liaison with the relevant IHO bodies and non-IHO entities;
3. To develop standards for the delivery and presentation of navigationally relevant current information; and
4. To provide technical advice and coordination on matters related to tides, water levels, currents and vertical datum.

**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 |
| C | *Left intentionally blank* |
| D | Develop, maintain and extend a Product Specification for dynamic surface currents in ECDIS (S-111) (IHO Task 2.3.4) |
| E | Develop, maintain and extend a Product specification for dynamic water level in ECDIS (S-104) (IHO Task 2.3.4) |
| F | Liaise with S-100WG on water level and current matters relevant to ECDIS applications (IHO Task 2.3.5) |
| G | Liaise with industry experts on the development of product specifications for water level and currents |
| H | 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) |
| I | Review and maintain the Actual Tides and Currents On-Line links as published on the IHO TWCWG website |
| J | Maintain and extend the relevant IHO standards, specifications and publications as required (IHO Tasks 2.8.4 and 2.1.8) |
| K | Conduct the at least annual meetings of TWCWG and its sub-group(s) and project team(s) (IHO Tasks 2.1.2.7) |
| L | Develop and maintain material for course on Tides, Water Levels and Currents |

**Work items**

| **Work item** | **Title** | **Priority** H-high M-medium L-low | **Next milestone** | **Start**  **Date** | **End**  **Date** | **Status** P-planned O-ongoing C-completed S-Superseded | **Contact Person(s)** | **Related Pubs / Standard** | **Remarks** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| A.1 | Maintain the list of standard tidal constituents | M |  | - | Permanent | O | Chris Jones\*  All |  | 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 set  Analyse using different software  Predict common set of tides  Compare results |
| D.1 | Develop and maintain a product specification for dynamic application of surface currents in ECDIS (S-111) | H |  | 2013 | ~~2017~~  ~~2018~~  2019 | O | Tbc?  + List of involved and active members : report TWCWG4 |  | Joint project team is established as required.  Liaise with S-100WG (see F.1)  Liaise with industry experts (see G.1) |
| E.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~~  2020 | O | Zarina Jayaswal\*  + Llist of MS involved : TWCWG4 report |  | Joint project team is established as required.  Liaise with S-100WG (see F.1)  Liaise with industry experts (see G.1) |
| F.1 | Liaise with S-100WG on water level and current matters relevant to ECDIS applications | H |  | - | Permanent | O | Gwenaële Jan  Zarina Jayaswal |  | Joint project team is established as required. |
| G.1 | Liaise with industry experts on the development of product specifications for water levels and currents | H |  | - | Permanent | O | All |  |  |
| H.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. |
| I.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 |  |  |
| J.1 | Maintain and extend the relevant IHO standards, specifications and publications | M |  | - | Permanent | O | Gwenaële Jan\*  Peter Stone  All | S-60 User’s Handbook on Datum Transformations involving WGS 84 | See IHO CL10/2017 dated 1/02/2017 |
| J.2 | Maintain IHO resolutions | H |  | 2019 | 2020 | O | Ruth Farre\*  All | IHO Resolutions in M-3 |  |
| L.1 | Develop and maintain material for CB course on Tides and Tide gauges | H | Complete translate of course material into Spanish and Portuguese by 2018 in liaison with Regional CB Coordinator requirements | - | Permanent | O | Ruth Farre\*  Peter Stone  Zarina Jayaswal  Gwenaële Jan  Cesar Borba  José Ramón Torres García |  | Adapt currently available course material to create a course suitable for delivery in support of CBSC requests |

**Meetings** (Task N)

|  |  |  |
| --- | --- | --- |
| **Date** | **Location** | **Activity** |
| 8-12 April 2019 | Busan, Republic of Korea | TWCWG-4 |
| 19-23 April 2021 | Stavanger, Norway | TWCWG-5 |
| tbc 2021 | Cape Town, South Arica (tbc) | TWCWG-6 |

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## 8. NCWG WORK PLAN 2020-22

**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**

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

| **No** | **Work item** | **Priority** H-high  M-medium  L-low | **Next Milestone** | **Start**  **Date** | **End**  **Date** | **Status** P-Planned  O-Ongoing  C-Completed | **Contact Person(s)** | **Affected Pubs/Standard** | **Remarks** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| A26 | Portrayal subWG | H | Agree protocol for seeking advice from NCWG | 2016 |  | O | Chair NCWG |  | HSSC7 Action 18  NCWG2 Actions 5, 22, 30-32  Attendance at NIPWG Visualization workshop May 2017.  NCWG3 Action 15 |
| A28 | Future of S-4 | H | NCWG6 – discuss future of S-4 and agree work tasks | 2020 | 2022 | O | Chair NCWG | S-4 | NCWG3 Agenda 7.4: waiting on progress with A16 |
| E1 | Maintain official INT1s |  | UK to take over English INT1 from DE and publish new edition |  |  | O | DE: S Spohn  FR: S Guillou  ES: José Marie Bustamente | INT1 | DE INT1 edition 9 published August 2018  ES INT1 edition 6 published April 2018  FR INT1 edition 7 published in 2019  UKHO plan to publish new edition 8 of English version before end of 2020. |
| E9 | Develop new section V for INT1 for ‘data quality’ | M | Draft under consideration by INT1 subWG | 2014 | 2021 | O | Chair NCWG  INT1 subWG | INT1 | CSPCWG10 Action 35  NCWG3 Agenda 11.2: Transferred to UK  NCWG4 – Action 4/18 ongoing |
| E10 | Symbol library | L | UK to confirm freedom to use UK's symbol set | 2016 |  | O | UK (N Rodwell)  US (C Harmon) | S-4, INT1 | NCWG Actions 45, 46  NCWG3 Agenda 3: Not required to progress at this time. |
| E11 | Develop baseline symbology to support automated chart production | H | NCWG6 – discus and agree work tasks | 2020 |  | P |  | INT1, S-4 | New proposal by NCWG at HSSC12 |

**Meetings** (Task G)

|  |  |  |
| --- | --- | --- |
| **Date** | **Location** | **Activity** |
| 5-8 November 2019 | Stockholm, Sweden | NCWG5 |
| 3-4 November 2020 | Virtual Event | NCWG6 |
| 9-12 November 2021 | Cadiz, Spain (hybrid tbc) | NCWG7 |
| 2022 | Wollogong, Australia (tbc) | NCWG8 |

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## 9. DQWG WORK PLAN 2020-22

**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 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=High**  **M=Medium**  **L=Low** | **Milestones** | **Start**  **Date** | **End**  **Date** | **Status**  **P=planned**  **O=Ongoing**  **C=completed** | **Contact Person** | **Affected Pubs/**  **Standards** | **Remarks** |
| B.2 | Development of a minimum standard for Data Validation in S-1xx based products | H | S-101 Ed.2.0.0 | 2018 | 2024 | O | Chair | S-1xx | First iteration of S-101 completed |
| B.3 | Review S-101. S-102, S-104, S-111, S-122, S-123, S-127 and S-129 for DQ aspects | H | HSSC13 | 2020 | 2021 | P | Chair | S-101, S-102, S-104, S-111, S-122, S-123, S-127, S-129 | S-104 Ed.1.0 is expected January 2021 |
| C.1 | Review S-100 Section 4C | H | DQWG15 | 2017 | 2021 | O | Chair | S-97 Part C | None |
| D.2 | Provide guidance documentation how to populate CATZOC values | H | S101PT4 | 2018 | 2022 | O | Vice-Chair | S-101 DCEG | None |
| E.3 | Consider a video version of S-67 when approved by MS | L | S-101 Ed.2.0.0 | 2020 | 2020 | P | Chair | S-4, S-101 | Overtaken by events – social media post completed |
| G.1 | Monitor development of autonomous shipping by the industry | M | DQWG16 | 2020 | 2021 | O | Chair | S-101 | SINTEF OCEAN (Norway) |

**Meetings**

|  |  |  |
| --- | --- | --- |
| **Date** | **Location** | **Activity** |
| 15-19 January 2018 | IHO Secretariat, Monaco | DQWG13 |
| 5-8 February 2019 | IHO Secretariat, Monaco | DQWG14 |
| 4-7 February 2020 | IHO Secretariat, Monaco | DQWG15 |
| 9-10 February 2021 | Online meeting | DQWG16 |

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## 10. HDWG WORK PLAN 2020-22

**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-high M-medium L-low | **Next milestone** | **Start**  **Date** | **End**  **Date** | **Status** P-planned O-ongoing C-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 – d  b. Terms e – l  c. Terms m – r  d. Terms s – z | 2018  2018  2018  2018 | 2020  2020  2021  2021 | C  P  P  P | Laporte | S-32 | * The first milestone (a) hopefully achieved by chairman has required xxx working hours (to be Confirmed). * Further tasks to be discussed and eventually distributed amongst HDWG members accordingly |
| A | Complete the HD Arabic national version | H |  | 2018 | 2021 | O | Juma al Busaidi | S-32 |  |
| A | Complete the French version and use it as a template to assess the amount of work needed for updating other national versions | M |  | 2020 | 2020-2021 | P | Laporte | S-32 | * Ongoing. In liaison with Canada and French HOs * Terms a – d completed at an average speed of 10 to 15 words per hour |
| B | Japanese and Korean HD national version | H |  | 2020 | 2020 | P | David Wyatt |  | Identify Japan and RoK HD representatives |
| C | Liaise with the IOC to examine commonality between HD and Oceanography Dictionary | M |  | 2020 | 2021 | P | Laporte | S-32 | First contact established |
| D | Harmonize the S-32 IHO Hydrographic Dictionary database with the IHO GI Registry through the Concept Registry Domain Control Body | H |  | 2020 | 2020-2021 | O | Susie Lyu Yuxiao | S-32 | In progress, in liaison with Jeff Wooton, the S-100 GI Registry Manager |

**Meetings** (IHO WP task 3.1.8)

|  |  |  |
| --- | --- | --- |
| **Date** | **Location** | **Activity** |
| 27-28 November 2018 | IHO, Monaco | HDWG2 |
| 10 - 12 November 2020  (postponed) | China MSA, Guangzhou/Canton  (postponed) | HDWG3 |
| 2021 (yet to be defined) | China MSA, Guangzhou | HDWG3 |

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## 11. ABLOS WORK PLAN 2020-22

**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 2020 and 2021 (IHO Task 2.1.2.8) |

**Work items**

| **Task** | **Work item** | **Priority** H-high M-medium L-low | **Next milestone** | **Start**  **Date** | **End**  **Date** | **Status** P-planned O-ongoing C-completed | **Contact Person(s)**  **\* indicates leader** | **Related Pubs / Standard** | | **Remarks** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| A1 | Organise 11th ABLOS Conference | H | Begin advertising  Identify and invite key note speaker  Confirm conference title  Attract presentation abstracts | 2019  2019  2019  2019 | 2022  2021  2021  2022 | O  O  O  O | All members of ABLOS through Committee | | N/A |  |
| A2 | Conference support and outreach | H | Develop and maintain ABLOS website | 2019 | On going | P | Niels Andersen | |  |  |
| B1 | Prepare draft 6th Edition of C-51 (TALOS Manual) for adoption by Member States | M | Review initial Spanish translation and propose amendments | 2018 | 2020 | O | Juan Carlos Báez Soto\* | | IHO Publication C-51 |  |
| B2 | Commence 7th Edition | H  H  M  M  M | Confirm Format and Content  Review contents of chapters and identify areas requiring revision  Develop draft revised chapters and seek ABLOS consensus  Submit to HSSC for endorsement and circulation to IHO MS and AIG EC for approval and adoption  Progress French and Spanish translations | 2019  2020  2021  2023  2023 | 2020  2021  2023  2024  2024 | O  P  P  P  P | Grant Boyes\*  Editorial Board  Grant Boyes\*  Editorial Board  Grant Boyes\*  Editorial Board  ABLOS Chair  Marie-Françoise Lequentrec-Lalancette\*/  Juan Carlos Báez Soto\* | | IHO Publication C-51  IHO Res. 2/2007, as amended |  |
| C1 | Deliver standard training programmes for the CBSC | H | Develop and maintain core training material | 2011 | Continuous | O | Hyunsoo Kim\*  Grant Boyes  Isabel King Jeck  Fiona Bloor  Juan Carlos Báez Soto | | IHO Publication C-51 | No workshops planned in 2020 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** |
| 22 – 25 October 2018 | Qatar | ABLOS 25 |
| 6 - 8 October 2020 | Remote VTC | ABLOS 27 |
| 4 - 6 October 2021 | IHO, Monaco | ABLOS 28 and Webinar |
| 3 - 6 October 2022 | IHO, Monaco | ABLOS 29 and 11th ABLOS Conference |
| 7 - 10 October 2019 | IHO, Monaco | ABLOS 26 and 10th ABLOS Conference |

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## 12. COORDINATION WORK PLAN 2020-22

**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 2019 and 2020 meetings of HSSC (IHO Task 2.1.1) |

**Work items**

| **Work item** | **Task** | **Priority** H-high M-medium L-low | **Next milestone** | **Start**  **Date** | **End**  **Date** | **Status** P-planned O-ongoing C-completed S-Superseded | **Contact Person(s)** | **Related Pubs / Standard** | **Remarks** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| A2 | Establish the Hydrographic Survey Working Group | H | HSSC-13 | HSSC-12 | 2021 | O |  |  |  |
| B2 | Contribute to the development of the S-100 Implementation Strategy | H | C-4/C-5 | 2018 | 2024 | O |  |  |  |
| B3 | Implement the Revised Strategic Plan | M | C-5 | 2020 | 2026 | O |  |  | Allocation of SPIs to WGs and 2026 targets estimate. |

**Meetings** (Task D)

|  |  |  |
| --- | --- | --- |
| **Date** | **Location** | **Activity** |
| May 2019 | Cape Town, South Africa | HSSC-11 |
| 19 & 22 Oct 2020 | VTC | HSSC-12 |
| 9 Dec 2020 | VTC | Outcome of A-2 and C-4 |
|  |  |  |

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