

22nd Conference of the Meso American - Caribbean Sea Hydrographic Commission

IRCC Update



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13th Meeting of the IHO Inter-Regional Coordination Committee



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VTC, 23-25 June 2021



MACHC Representation

IRCC Meeting:

- IRRC13 was held via VTC on 23-25 June 2021
- IRCC14 to be held in Indonesia (Monaco as backup) in May / June 2022
- IRCC15 to be held in Japan in 2023

MACHC Representation:

- Brazil
- France
- Netherlands
- United Kingdom
- United States of America

MACHC Report to IRCC13 distributed via MACHC Letter 07/2021



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IRCC Highlights

- Endorsed the proposal of IHO Resolution on the **Principles of the WEND for S-1XX Products (WEND-100 Principles)** - IHO Secretariat issued CL 25/2021 calling for approval by the MS and then CL 37/ 2021 informing the approval of the **IHO Resolution 1/2021**.
- Approved the questionnaire on **High Density ENCs** submitted by WENDWG - IHO Secretariat issued CL 26/2021 inviting MS to participate in the survey and then CL 42/2021 with the **outcome of the survey**.

<https://iho.int/en/wendwg-repository>



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IRCC Highlights

- The **Marine Cartography and Data Assessment (MCDA)** programme submitted by UKHO was recognized by IBSC as **Category “B”**.
- IHO DCDB now hosts the **GEBCO Gazetteer**, a web tool that allows the public to search for, view, and download information <https://www.ngdc.noaa.gov/gazetteer/>
- Seabed 2030 Project published the GEBCO 2021 grid with 20,6% coverage, following established resolutions https://www.gebco.net/data_and_products/gridded_bathymetry_data/



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IRCC13 Actions assigned to MACHC

Action 5: IRCC members involved **to develop measurements to the SPI** allocated to them and **report back to IRCC14**.

Action 6: RHCs and WGs **to include** the measurement of the SPI attributed by IRCC **in their annual Work Plans** (Permanent).

- The **IHO Council** agreed to the **SPI metrics** as proposed by IRCC tasked IRCC **to engage with the RHCs** to design relevant **implementation** procedures as appropriate.
- **IRCC** will organize a **Workshop by April 2022** on the **definition and design of SPIs methodologies**.

SPIs attributed by IRCC to MACHC

Targets	Strategic Performance Indicator (SPI)-measurement for success	Proposed Lead
Goal 1: Evolving the hydrographic support for safety and efficiency of maritime navigation, undergoing profound transformation		
1.2 Develop standards, specifications and guidelines in the areas of data assurance, including cyber security and data quality assessment.	1.2.2 Percentage of navigationally significant areas (e.g. charted traffic separation schemes, anchorages, channels) for which the adequacy of the hydrographic knowledge is assessed through the use of appropriate quality indicators (2026:100%).	IRCC: RHCs CBSC C55 consistent IHO-GIS BSHC MWG CB Coordinators of RHCs
1.3 Use capacity building and training to develop and increase the ability of Member States to support safety and efficiency of maritime navigation.	1.3.1 Ability and capability of Member States to meet the requirements and delivery phases of the S-100 implementation plan (2026: 50%).	IRCC: CBSC RHCs

SPIs attributed by IRCC to MACHC

Targets	Strategic Performance Indicator (SPI)-measurement for success	Proposed Lead
Goal 2: Increasing the use of hydrographic data for the benefit of society		
<p>2.2 Promote new tools and methods to accelerate and increase coverage, consistency, quality of surveys in poorly surveyed areas.</p>	<p>2.2.1 Percentage of adequately surveyed area per coastal state.</p>	<p>IRCC: RHCs CBSC C-55 consistent IHO-GIS BSHC Resurvey Monitoring WG NSHC Resurvey WG CB Coordinators of RHC</p> <p>Comment: See C-55</p>



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SPIs attributed by IRCC to MACHC

Targets	Strategic Performance Indicator (SPI)-measurement for success	Proposed Lead
Goal 2: Increasing the use of hydrographic data for the benefit of society		
2.3 Apply UN shared guiding principles for geospatial information management in order to ensure interoperability and extended use of hydrographic data in combination with other marine-related data.	2.3.1 Number of HOs reporting success applying the principles in their national contexts (2026: 70%).	IRCC: RHCs MSDI UN-GGIM HWG



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15 IRCC Recommendations for MACHC - many of them either completed or are in progress. Examples:

- RHC to encourage MS to focus on ENC Schemes, but still follow applicable IHO Resolutions and Standards for any continuing INT chart production.
- RHC and MS to advise the IHO Secretariat of any update/change to their position in relation with the CSB questionnaire.
- RHC to identify regional coordinators to act as a point of contact for CSB/Seabed 2030 and to raise the profile of data gather and provision within their respective Region.
- RHC to encourage MS to participate in the EWH project.
- RHCs to encourage all MS to actively contribute with new data to GEBCO and to discuss how MS can share existing data.



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5 IRCC Recommendations for MACHC that need to be considered

- RHCs to recommend Member States to Note the information on **ECDIS anomalies** and support the implementation of the recommendations given by the ENCWG (CL 40/2021).
https://iho.int/uploads/user/circular_letters/eng_2021/CL40_2021_EN_v1.pdf
- RHCs to consider extend the role of **Charting Regional Coordinators** for the implementation of the **S-100 Implementation Roadmap**.
- RHCs to coordinate the efforts on the **implementation of S-100 and promote the cooperation and exchange of experiences**.



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5 IRCC Recommendations for MACHC that need to be considered

- Member States and submitting institutions are encouraged to **consult the Guidelines, the FAQs and the White Paper early in the process of preparing submissions for programme recognition**
<https://iho.int/en/standards-and-specifications>
<https://ihr.iho.int/articles/maintaining-the-standards-of-competence-for-hydrographic-surveyors-and-nautical-cartographers-a-modern-approach/>
- Member States and submitting institutions are encouraged **to engage with the IHO Secretariat early in the process of them preparing submissions for programme recognition.**



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IRCC 2021 Workshop on IHO Strategic Plan

<https://iho.int/en/ircc-ws-splan>

Presentations:

- SWPHC - regional approach to address the IHO Strategic Plan
- MAS - national approach to address the IHO Strategic Plan
- Shom - national approach to Goal 1 - “Transitioning to S-100”
- MPA Singapore - national approach to Goal 2 - “Implementing MSDI”

SWPHC provided an excellent Gap Analysis that could be used as example for other RHC.

SWPHC Gap Analysis

GOAL	Target	Current State	Gap	Actions
<p>Goal 1: Evolving the hydrographic support for safety and efficiency of maritime navigation, undergoing profound transformation</p>	<p>1.1 Deliver standards for hydrographic data and specifications of hydrographic products; support their regular production; and coordinate regional and global services for their provision</p> <p>1.2 Develop standards, specifications and guidelines in the areas of data assurance, including cyber security and data quality assessment</p> <p>1.3 Use capacity building and training to develop and increase the ability of Member States to support safety and efficiency of maritime navigation</p>	<p>e.g.</p> <ul style="list-style-type: none"> refer to Strategic Performance Indicators (SPI) IHO Universal Hydrographic Data Model (S-100) not implemented engagement in IHO and SWPHC WGs refer to current state of SWP PICTs IHO Capacity Building Strategy -SWPHC17 Feb 2020 	<p>e.g.</p> <ul style="list-style-type: none"> no operationalised production and distribution of S-100 data products and services limited capability and resources to meet the requirements and delivery of the S-100 implementation plan lack of support from Government institutions for maritime navigation lack of understanding of maritime navigation transformation 	<p>e.g.</p> <ul style="list-style-type: none"> participation of Coastal State at the IHO and SWPHC WGs and Committee levels assistance sought from IHO, Primary Charting Authority, SWPHC, SPC, IALA, IMO ensure adequate institutional arrangements in place for Hydrographic Governance capacity building activities through IHO capacity building strategy or other donor organisations engage with relevant Government departments and the Maritime Safety Authority to increase aware and support for e-Navigation prepare business case for e-Navigation strategy



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The Commission is invited to:

- a. Approve Actions for Members to meet the 5 IRCC Recommendations for MACHC that has not been considered yet;
- c. Approve an Action for Members to review the IHO Strategic Plan and complete a gap analysis for each goal; and
- c. Take any other decisions and actions considered necessary.



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