

5th Meeting of the IHO Council

Report and proposals from IRCC Agenda Item C5-04.2A

C-5, VTC, 19 – 21 October 2021



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IRCC-13 was held as vtc 23-25 June 2021

- 80 participants from 30 MS. All 15 RHC and Subordinate Bodies of IRCC (9) were represented.
- IHO Secretariat was represented by the SG Dr Mathias Jonas (HCA Chair), Dir Luigi Sinapi (IRCC Secretary) and Leonel Manteigas (IRCC Assistant Secretary).
- Only 8 month since IRCC-12
- plan is to find a suitable mixture of holding virtual, hybrid and personal meetings in the future, taking into account the pros and cons of them



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The RHC Chairs were asked to focus their oral reports on three main topics:

- "Work on Strategic Plan and Gap Analysis",
- "Important Findings"
- "Proposals to IRCC"



- need of guidance on the determination of SPI values at regional level
- collaboration and coordination in the implementation of the S-100 Roadmap



ARHC / CHR/

SAHC / CHZMR

SAIHC / CHAIA

NIGHC / CHOI

FAHC / CHAO

SWPHC / CHPS

USCHC / CHUSC

MACHCICHMA

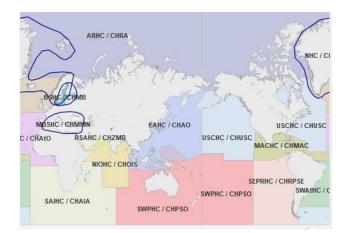
SEDDHC / CHDDSE



IRCC REPORT - RHC

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Some RHC's Chairs mentioned



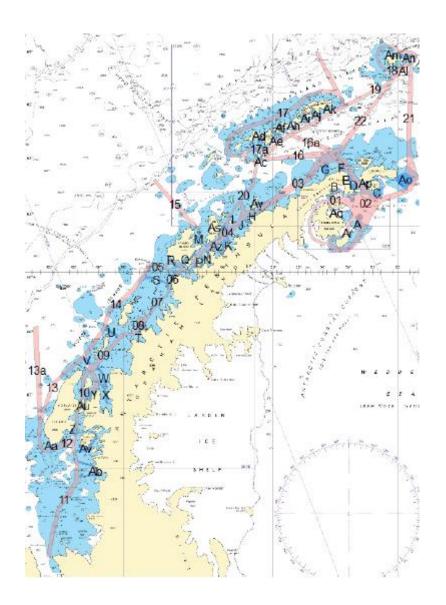
- communication issues between Member States,
- the low productiveness of VTC,
- the difficulty in recruiting new Member States,
- the implementation of MSDI initiatives,
- the postponement of Capacity Building projects and
- the importance of online training



IRCC REPORT - HCA

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- Consider the extended role of regional Charting Coordinators for the implementation of the S-100 Roadmap
- Discussion on the application of IHO Res. 2/1997 to HCA statutes



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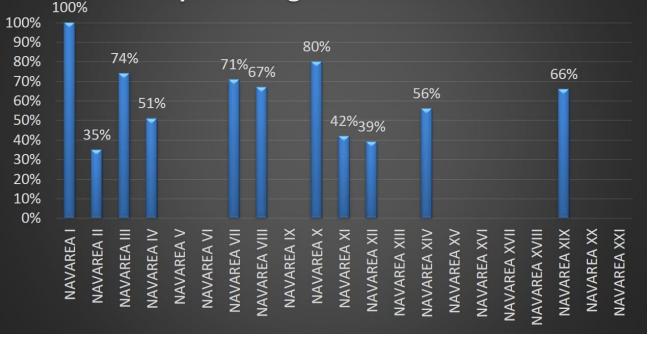
IRCC REPORT - MSI

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WWNWS

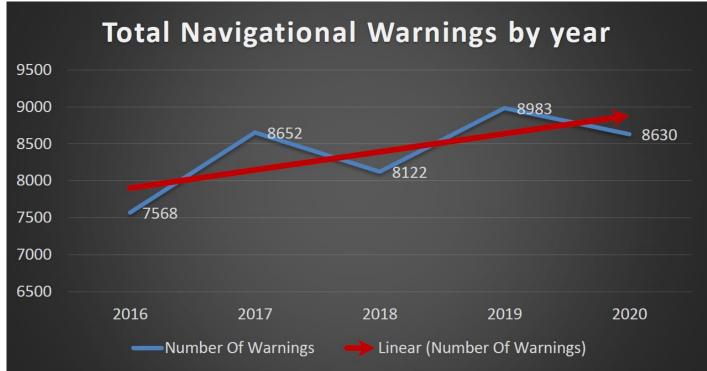
- graph with the percentage of National Coordinators providing contributes from the different NAVAREA.
- graph can be used to
 - measure the efficiency of the MSI capacity building course
 - derive where to focus capacity building training

Percentage of National Coordinators providing MSI in 2020





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• to reduce the lack of qualified trainers, it is intended to review the course materials and to offer a train-the-trainer course.





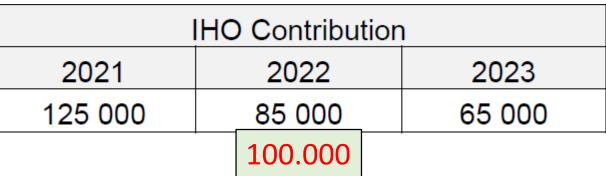
Capacity Building Management



- significant impact of COVID-19 on the CB activities.
- thanks to the highly flexible reaction, it is encouraging that initiatives such as the UKHO's online courses lead to several replacements of trainings by virtual means.
- this enhances the importance of the e-learning-center Initiative.



CB Fund





- generous financial contributions from Republic of Korea and Nippon Foundation from Japan and from other MS mainly to earmarked projects.
- Surplus from 2020 due to postponed projects. Will be needed in following years.
- total funds for non-earmarked projects decreased.
- Special Projects Fund 80.000 € (generally CB)
- CB funds are far to small for an extensive support of S-100 developments in the regions.



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IRCC REPORT – CAPACITY BUILDING

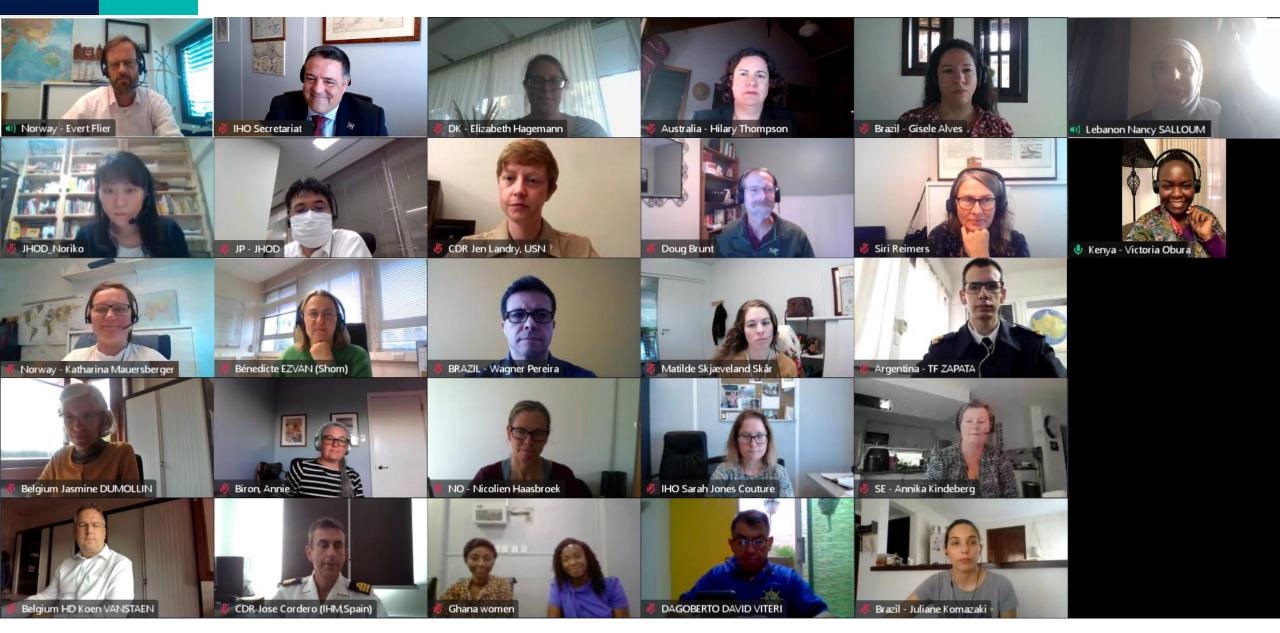
INTERNATIONAL HYDROGRAPHIC ORGANIZATION

IHO Capacity Building Strategy Adopted 10 October 2014 by the EIHC5

CB Strategy

- CBSC established a Project Team to Revise the CB Strategy.
- PT conducted a Gap Analysis between IHO Strategic Plan and CB Strategy, identifying three work items:
 - draft aligned CB Strategy,
 - update phases of development (potentially include a phase 0 on governance)
 - to add a 5th step to the 4A-process of the CB Strategy (Awareness; Assessment; Analysis; Action)", in order to address Measures of Effectiveness (MoE).









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CB Project Empowering Women in Hydrography

- initiative and generous support from Canada until 2024
- goals:
 - more exposure to women
 - increasing their interest in and contribution to IHO bodies
 - include training and communication
 - share good practices and good experiences, but also challenges
 - increase gender diversity in hydrographic organizations
- Intensive support IHO Secretariat





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- Kick-off vtc on 28 September 2021
 - participants from all over the world, i.e. Ghana, Kenya and Lebanon
- main lines of action:
 - outreach (awareness)
 - contact (being involved)
 - learning (empowering)
- some possible ways to implement it:
 - outreach project
 - workshops/seminars
 - internships, at-sea experiences and train-on-job activities.
 - participation in conferences





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done

- <u>https://iho.int/en/basic-cbsc-ewh</u>
- procedure to submit proposals
- adjusted the initial project workplan

future (a.o.)

- Issue guidance on how to participate in the project
- internships at the IHO Secretariat
- at-sea experience/advanced training (NOAA)
- EWH symposiums



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CB IHO e-Learning Center



- importance has already been highlighted
- the IHO e-Learning Center Project Team established TOR/ROP
- good expectations to receive contents from some WG and others
- expected start of operational tests with IHO MS in 2022
- depending on contributions of online learning material from MS and partners



IRCC REPORT – WEND WG

RESOLUTIONS

of the

INTERNATIONAL HYDROGRAPHIC ORGANIZATION

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WENDWG mainly focused on the WEND-100 principles.

Implementation Guidelines will determine how they are applied to each Product Specification.

WG started working on the S-101 ENC Scheming Guidelines to ensure an efficient transition from S-57 to S-101.

IRCC endorsed the recommendations made on the amendment of the Roadmap for the S-100 Implementation Decade (Annex A of this report) and is asking C-5 for approval.



IRCC REPORT – WEND WG

RESOLUTIONS

of the

INTERNATIONAL HYDROGRAPHIC ORGANIZATION

- IHO RESOLUTION PRINCIPLES OF THE WEND FOR S-1XX PRODUCTS (WEND-100 PRINCIPLES)
- IRCC endorsed the final changes to the IHO Resolution on WEND-100. In accordance with IRCC ROP Art 9, there was no need to involve IHO Council
- IHO CL 25/2021 to IHO MS asking for the approval of the IHO Resolution on WEND-100 directly.
- Adopted by MS, see CL 37/2021 (21 September 2021)



IRCC REPORT – WEND WG

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SURVEY ON THE PRODUCTION OF HIGH DENSITY ENCs (HD ENCs)

- Questionnaire developed by WEND WG for ENC producers to express their plans regarding HD ENCs
- See results in CL 42/2021 from 15 October 2021

SURVEY ON S-100 OPERATIONAL ANALYSIS

- Italian HO in cooperation with University of Genoa developed a questionnaire on how the introduction of S-100 products is perceived by Hydrographic Offices
- study is part of a wider study on how the introduction of S-100 will affect shipping companies and maritime operators.
- See CL 27/2021 from 6 July 2021





- The concept of MSDI V2.0 was presented
- Artic SDI Governance model could be a role model for MSDIcooperation in RHC
- SPI related to Target 2.1
 - Build a portal to support and promote regional and international cooperation in marine spatial data infrastructures (MSDI)
 - intention to investigate the different possibilities and needs of MS.
- MSDIWG is closely cooperating with
 - the UN-GGIM-WG on Marine Geospatial Information and
 - The Open GIS Consortium
 - See invitation in CL 41/2021 from 14 October 2021



IRCC REPORT – IHO-EU NETWORK



- IHO-EU Network WG is contributing to the programs of the European Union, focusing on
 - EMODnet Portals, especially "EMODnet bathymetry", with leading roles of several HOs
 - Maritime Spatial Planning is another area of interest, being IENWG an observer of the EC MS Expert sub-group on MSP.
- Possible impact for HOs of the European Directive 2019/1024 on open data and the reuse of public sector information, where high level datasets are being considered as open data. (ENC?)



IHO IRCC REPORT – STANDARDS OF COMPETENCE

STANDARDS OF COMPETENCE FOR CATEGORY "A" HYDROGRAPHIC SURVEYORS

- FIG/IHO/ICA International Board on Standards of Competence for Hydrographic Surveyors and Nautical Cartographers (IBSC)
- in 2021 eight new submissions, two for individual recognition schemes
- low percentage of initial recognition of programs due to
 - poor quality of submissions
 - difficulties encountered in interpreting the new Standards and the related Guidelines and FAQ
- intersessional revisions show substantial increase of recognitions but are causing heavy workload
- COVID situation implied the modification of teaching strategy and the development of remote learning strategies.



IHO IRCC REPORT – CROWD SOURCED BATHYMETRY



- heterogenious views of HOs regarding provision of CSB data
- update of IHO B-12
- focus is to collect data in poorly surveyed or unsurveyed areas
- apparent lack of resources within HOs to process data available via DCDB
- data quality grown in the last years
- IHO MS and stakeholders are invited to contribute and encourage the provision of bathymetric data



IRCC REPORT – GEBCO AND SEABED 2030

- GEBCO GC considers data coverage developed from 6% to almost 21%
- GEBCO's two biggest challenges are:
 - how to get governments, institutions, private industry to share bathymetric data,
 - how to get the remaining ~80% of our planet's unmapped ocean seafloor mapped.
- Seabed 2030 project is an action of UN Decade of Ocean Science for Sustainable Development
- project is focused on mapping the gaps with three different initiatives:
 - Ocean Frontier Mapping,
 - Crowd Sourced Bathymetry,
 - Technology Innovation
- necessary to promote the need to map the entire seabed and to encourage organizations to make their data available.



IRCC REPORT – GEBCO AND SEABED 2030

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Shell provided a presentation on "Enabling Contributions"

- Hydrographic surveys on site and transit.
- Shell wants to donate data, but countries permission process is often complex
- to enable contributions to Seabed 2030 it was recommended to
 - improve the collaboration between HOs and Natural Resource Regulator,
 - simplify and reduce permitting requirements for transits through EEZ



IRCC REPORT – STRATEGIC PLAN

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- SWPHC18 provided an excellent Gap Analysis that could be used as example for other RHC
- cooperation is considered essential, as well as sharing experiences within RHC and inter-regionally

SPI have been allocated to the relevant IRCC bodies

- IRCC bodies are tasked to develop measures for the respective SPIs and to report back to IRCC14
- allocation of the SPIs is provided in a table in Annex B



IRCC REPORT - FIRST IRCC WORKSHOP 7 OCT 21

- Need for further guidance on the realization of the Strategic Plan in RHC or MS
 - decision at IRCC13, prepared by Vice-Chair, supported by Council Chair
 - 2,5 hours vtc
 - 4 presentations on regional and national approaches on Strategic Plan
 - fruitful discussions and positive feedback
 - more than 70 participants
- Workshop introduced new means to improve coordination in IRCC
 - exchange of information and discussion
 - introducing topics, ideas, questions, solutions or proposals
 - Useful as inspiration on how we can continue nationally/regionally
- Plans for more Workshops to come
- Next Workshop possibly in Spring 2022, may be on SPI for RHC



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Actions required of the Council

The Council is invited to:

- a. note the report of the IRCC;
- b. note the final changes to the IHO Resolution on WEND-100, as per IHO CL 27/2021 and 37/2021;
- c. approve the recommendations to amend the Roadmap for the S-100 Implementation Decade (Annex A);
- d. note the SPI allocated for IRCC SC/WGs and RHCs (Annex B);
- e. take any other action considered appropriate.