

MACHC23

IHO Secretariat Report

Rear Admiral Luigi SINAPI IHO Director







IHO MEMBERSHIP & REGIONAL APPLICATION FOR IHO MEMBERSHIP

International Hydrographic Organization

- Since MACHC22, Iraq,
 Angola and Albania acceded to the IHO Convention IHO
- Membership now stands at 98
- Serbia and Syria remain suspended

IHO Membership



Recommendation - MACHC is invited to **encourage and propose to the IHO Secretariat High Level Visits to those States not yet IHO Member States**.



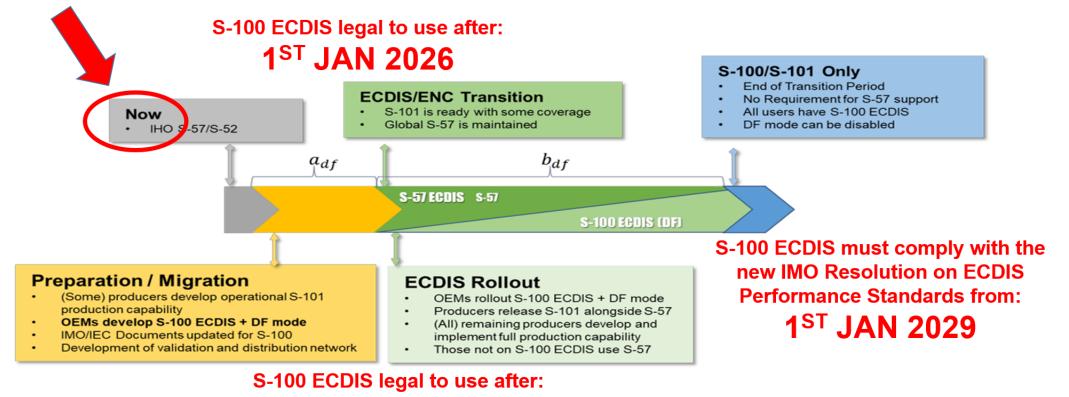
IHO OUTCOMES OF THE 6TH MEETING OF THE IHO COUNCIL

- International Hydrographic Organization
- IHO Work Programme and Budget for 2023 and the threeyear Work Programme and Budget 2024–2026
- Goal 1 and its Targets in the IHO Strategic Plan should have the highest priority in the 2023–2026 Work Programme
- To develop guidelines for the automated production of paper charts meeting S-4 chart minimum content requirements from S-101 ENC data
- The Council approved version 1.0 of the Guidelines on the Implementation of the WEND-100 Principles



IHO OUTCOMES OF THE 6TH MEETING OF THE IHO COUNCIL

International Hydrographic Organization From IMO NCSR and MSC last meetings, transition period for S-100 ECDIS to become legal to use after 1 January 2026 and systems must comply from 1 January 2029: the Council endorsed the Dual Fuel Concept for S-100 ECDIS Executive Summary:



1ST JAN 2026



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IHO OUTCOMES OF THE 6TH MEETING OF THE IHO COUNCIL

- IHO CL 43/2022Rev1 provides the resultant distribution of the **20 seats on the Council allocated to the RHCs** the Secretariat will use the table of tonnages (2021-2023) to determine the remaining 10 seats
- Council endorsed IRCC proposals for measuring the SPIs.
- Particular attention to SPI 1.2.2 Percentage of navigationally significant areas for which the adequacy of hydrographic knowledge is assessed through the use of appropriate quality indicators (CATZOC) assigned by the Member States.



IHO OUTCOMES OF THE 6TH MEETING OF THE IHO COUNCIL

SPI 1.2.2 - MACHC

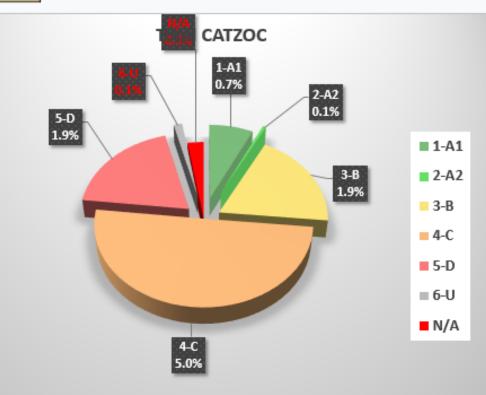
International Hydrographic Organization

<u>MACHC - B</u>										
	UB	CATZOC						UB		
% Surface		I-A1	2-A2	3-B	44	5-D	6-U	Total	N/A	
	3	5.7%	0.3%	16.5%	53.7%	19.7%	1.4%	97.3%	2.7%	3
CATZOC / ENC	4	15.0%	1.8%	33.8%	29.4%	17.4%	1.3%	98.7%	1.3%	4
November 2022	5	20.8%	5.0%	43.4%	14.5%	10.3%	1.8%	95.8%	4.2%	5
	Total	7.1%	0.5%	19.0%	50.2%	19.3%	1.4%	97.5%	2.5%	
SPI 1.2.2				96 .1%						

SPI 1.2.2 : Percentage of navigationally significant areas (e.g. charted traffic separation schemes, anchorages and channels) for which the adequacy of the hydrographic knowledge is assessed through the use of appropriate quality indicators.

(CL23/2022)

SPI 1.2.2 Region B Sources : ICENC & PRIMAR files November 2022





IHO OUTCOMES OF THE 6TH MEETING OF THE IHO COUNCIL

International Hydrographic Organization

Recommendations: MACHC is invited to:

- Continue on the implementation of the IHO Strategic Plan and support IRCC in identifying measures and values to measure those SPI of regional interest allocated to IRCC, and to consider providing their CATZOC values - through the RENCs - to support the IHO Secretariat in the process of measuring SPI 1.2.2
- Note the updated version 2.0 of the S-100 Implementation Roadmap, and the version 1.0 of the Guidelines on the Implementation of the WEND-100 Principles, with particular attention to the creation of a new role of S-100 Services Coordinator or the expansion of the role of Regional Chart Coordinator to include S-1xx products
- To declare the State/s selected to the Council seats allocated on a regional basis



IHO PREPARATION OF THE 3RD SESSION OF IHO ASSEMBLY

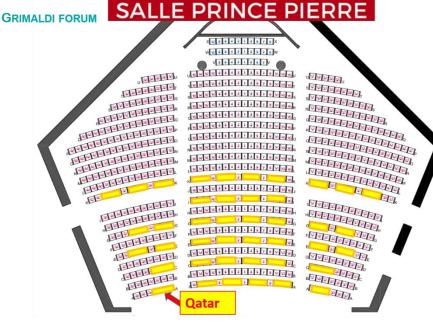
11/11/2022

International			all day	Registration of delegates		
Hydrographic Organization		Monday 1 May	PM	Meeting of the Finance Committee (Auditorium) and Meeting of Heads of Delegation (IHO Secretariat)		
			AM	Opening Ceremony Opening of the Hyprographic Industry and the Member States 2. sibilions Official Photo		
	Day 1	Tuesday 2 May	PM	Report a Council Chair		
				Report & Secretary-General		
				Work Programme 1: Proposals and Topical		
Day Day	Day 2	Wednesday 3Ma	АМ	Work Programme 1: Proposals and Topical Issues (Continued)		
	Day 2			Work Programme 2: Proposals and Topical Issues		
	Day 2	Thursday 4 Ma	AM	Work Programme 3: Reports of RHC Chairs, Proposals and Topical Issues		
	Day 5		PM	Thematic session: future challenges for hydrography in the Ocean Decade		
			AM	Election for the positions of IHO Secretary- General and Director		
	Day 4	Friday 5 May		Hydrographic Industry and Member States Exhibitions close		
				Closing Ceremony		

NEW DATES AND VENUE

Date: 2 - 5 May 2023



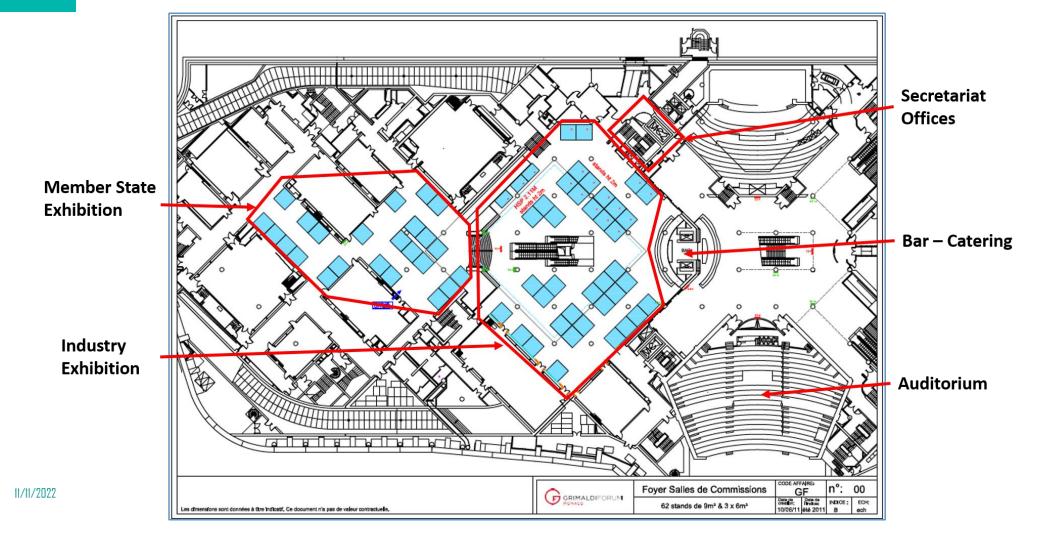


6th IHO Council - Monaco - 18 - 20 October 2022



IHO PREPARATION OF THE 3RD SESSION OF IHO ASSEMBLY

International Hydrographic Organization



Recommendation: MACHC members are encouraged to **register on line their delegations and submit proposals if any by 20 December 2022**.



IHO CAPACITY BUILDING PROGRAMME

- International Hydrographic Organization
- The 2021-2022CBWP funded activities not executed in 2021-2022 can be moved to the 2022-2023CBWP
- The CB finance situation will be more difficult in 2023 with the expected reduction of the non-earmarked funds
- MACHC has nr.7 funded CB project in 2022CBWP:
 - > 2022: A-05 Technical Visit to Belize
 - 2022: A-11 Technical Visit to Honduras (from 2021 A-03)
 - > A-13 High Level Technical Visit to Dominican Republic (from 2021 A-06)
 - > A-14 High Level Technical Visit to Jamaica (from 2021 A-07)
 - > P-09 MSI (training on establishment of MSI structure and basic MSI procedure)
 - P-39 Seminar on Raising Awareness of Hydrography (from 2021 P-17)
 - P-45 Tides Workshop for Spanish Speakers (former 2020 P11 and 2021 P-33)
- and nr.1 already funded CB project in the 2023CBWP:
 - > A-05 Technical Visit to Costa Rica



nternational Hydrographic

Organization

IHO CAPACITY BUILDING PROGRAMME - COURSES

- 2 students for 2022/2023 Master of Science Programme in Hydrographic Science at the University of Southern Mississippi (USA), sponsored by the Republic of Korea.
 - 14 students for the 13th and 14th GEOMAC courses in Cartography Cat B (see IHO CL 19/2022) sponsored by Nippon Foundation
 - 10 students for 2022 Cat B Hydrographic Survey Programme sponsored by the Republic of Korea
 - For 2023/2024, the Master of Science Programme in Hydrographic Science at the University of Southern Mississippi (USA), sponsored by the Republic of Korea, was announced with IHO CL 34/2022



IHO EMPOWERING WOMEN IN HYDROGRAPHY (EWH) PROJECT

International Hydrographic Organization IHO CL 26/2022: survey to determine the percentage of female employees in Hydrographic Offices and in leadership roles (Questionnaire - the deadline has been extended till 30 November 2022)



With Letter IOC/VR/22.377/JB/AC/mb dated 9 September 2022, IOC endorsed the project entitled "*No. 62.2 - Empowering Women in Hydrography" as a project forming part of the UN Decade of Ocean Science for Sustainable Development 2021-2030*.



Fisheries and Oceans Canada Pêches et Océans Canada



IHO CAPACITY BUILDING PROGRAMME - COURSES

International Hydrographic Organization

Recommendations: MACHC is invited to:

- Continue follow and evaluate the possibility to *contribute to the CB Programme*
- *Participate at the EWH project* and provide proposals via the specific webpage (https://iho.int/en/basic-cbsc-ewh) set up under the Capacity Building Sub-Committee (CBSC) for this project, and answer to the Questionnaire issued with IHO CL 26/2022 (the deadline was extended till 30 November 2022)
- Provide contributions of online learning material to the Project Team established for the IHO e-Learning Center.



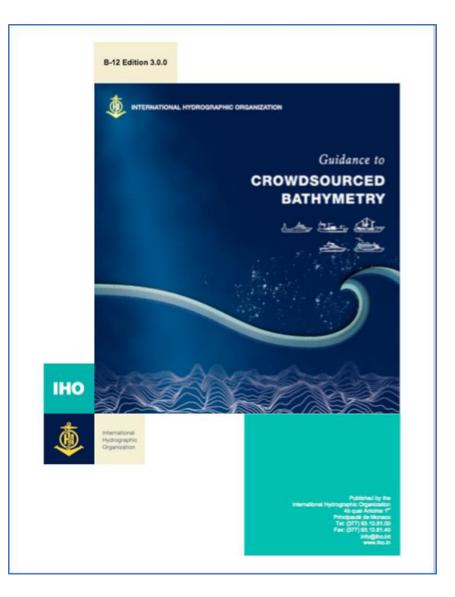
IHO MARITIME SAFETY INFORMATION SERVICES

International Hydrographic Organization *Recommendations*: MACHC is invited to:

- Encourage all information providers (NAV and MET Area Coordinators and RCCs) to complete agreements with all RMSS and commence the necessary testing of the SafetyCast system to progress towards declaring full operational status
- Establish and maintain effective communications with the relevant NAV and MET Area Coordinators to ensure the timely provision of MSI
- Use and follow the guidance provided in S-53 Joint IMO/IHO/WMO Manual on Maritime Safety Information – to ensure the necessary facilities and capabilities are provided and maintained for the gathering and communication of MSI within their area of national responsibility.



International Hydrographic Organization • With IHO CL 41/2022 *new* Edition 3.0.0 of B-12 was approved by 37 Member States. Updates include: incorporating feedback from operational use and experience, making the document more "equipment agnostic", simplifying the document and making it more accessible to ALL readers (data collectors, providers and users)





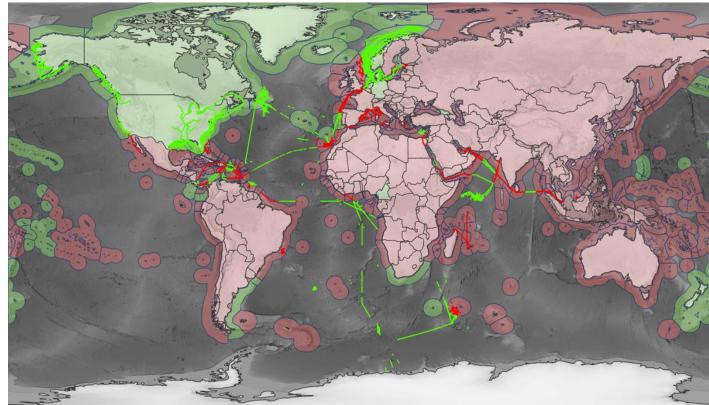
International Hydrographic Organization The Circular Letters (IHO CL 21/2020 and IRCC CL 1/2020) received 32 replies

MACHC IHO Member States:

Brazil, Colombia, Cuba, Dominican Republic, France, Guatemala, Guyana, Jamaica, Mexico, Netherlands, Suriname, Trinidad and Tobago, United Kingdom, United States of America, Venezuela.



Green = Positive Response Red = Negative Response, No Response



The IHO encourages coastal states to review the circular letters and, if possible, offer a positive response to the IHO Secretariat.

iho.int/uploads/user/circular_letters/eng_2020/CL21_2020_EN_v1.pdf iho.int/uploads/user/Inter-Regional%20Coordination/IRCC/IRCC_Letters/IRCC_Letter_2020_01_CSB_Activiti es.pdf



International Hydrographic Organization

- Thanks to the support of CSBWG, GEBCO and Nippon Foundation Seabed2030 project, the IHO Secretariat also promoted CSB through three sailing boats departed from Monaco and France for expeditions to and from the Antarctica in late 2021/early 2022.
- In July 2022 signed a Letter of Cooperation with the Yacht Club of Monaco to engage the world of yachting (yachts and mega yachts) in the CSB



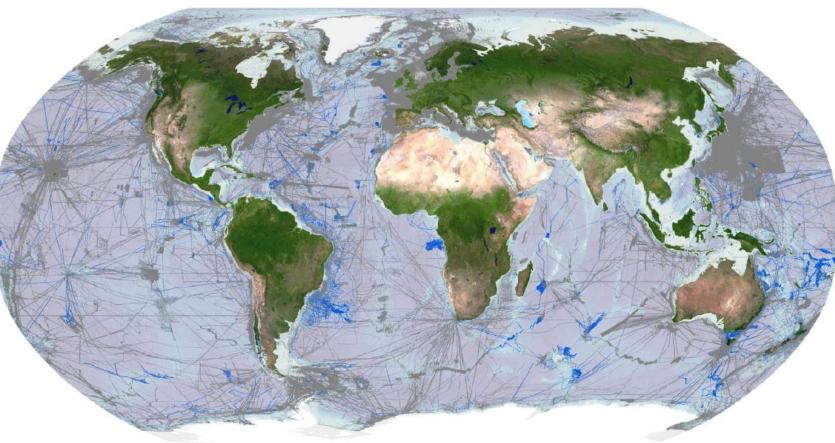


- It was decided to review the GEBCO Governance and write a GEBCO Strategy aligned with with the IHO Strategic Plan (2021-2026) and the IOC Medium Term Strategy (2022-2029)
- With IHO CL 10/2022 the IHO advised Member States on the 19th course of the IHO-IOC-Nippon Foundation/GEBCO Training Program leading to a Graduate Certificate in Ocean Bathymetry at the University of New Hampshire (UNH), USA (the 19th course began in late August 2022)
- A new GEBCO Sub-Committee on Education and Training (SCET) was established in 2022 and it is now operational



International Hydrographic Organization

- Nippon Foundation **GEBCO-Seabed** 2030 project was endorsed as an Action of UN **Decade of Ocean Science for Sustainable Development**
- Global mapping coverage now stands at 23.4% (June 2022)



GEBCO Grid 2022 (blue) v 2021 (dark grey) coverage comparison



International Hydrographic Organization

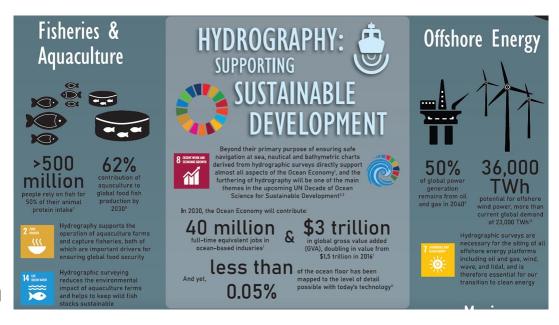
Recommendations: MACHC is invited to:

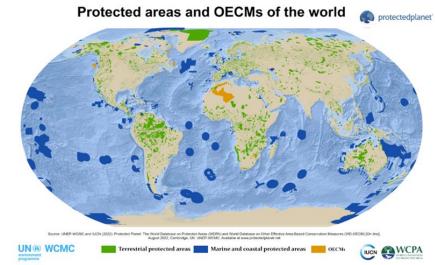
- Consider the impacts of the increasing global societal and United Nations (UN) driven need *to complete the picture of the seafloor* as well as the potential benefits to individual coastal States
- Make data freely available for inclusion in the DCDB and the widest possible use, in accordance with IHO Resolution 1/2017
- Nominate the CSB-GEBCO-Seabed 2030 Regional Coordinator
- Consider to review national legislation to *remove barriers restricting CSB activities within their waters*



IHO AND UNITED NATIONS DECADE OF OCEANS FOR SUSTAINABLE DEVELOPMENT

- Depth to be added to the list of Essential Ocean Variables (EOVs)
 - For the "Global Ocean Alliance" to protect 30% of the world's land mass (land and ocean) by 2030, SP-122 – Marine Protected Areas will play a role in supporting the sustainable use of such areas
 - IHO to be the key point of contact for seabed mapping and hydrography in the Organization for Economic Cooperation (OECD) in the report "the Ocean Economy in 2045"







IHO GIS AND DATABASES

- International Hydrographic Organization
- Yearbook (P-5) and Status of Hydrographic Surveying and Charting Worldwide (C-55) are regularly updated
- The IHO Online Form system has been used since March 2019
- An Esri-based GIS solution has been implemented for the efficient visualization of geospatial data stored in the Country Information System

Country	P-5 –Yearbook	C-55		
	Last update received	Last update received		
Brazil	March 2022	June 2022		
Colombia	October 2022	August 2021		
Cuba	August 2020	December 2016		
Dominican Republic	January 2021	-		
France	January 2022	August 2022		
Guatemala	August 2022	December 2019		
Guyana	November 2021	January 2022		
Jamaica	February 2021	January 2022		
Mexico	October 2021	November 2012		
Netherlands	September 2022	October 2022		
Suriname	September 2019	January 2022		
Trinidad and Tobago	September 2019	January 2022		
United Kingdom	July 2022	August 2022		
United States of America	June 2022	December 2018		
Venezuela	September 2022	November 2021		
Antigua and Barbuda	-	January 2022		
Barbados	November 2019	January 2022		
Belize	-	January 2022		
Costa Rica	March 2020	-		
El Salvador	April 2017	December 2016		
Grenada	-	January 2022		
Haiti	June 2017	December 2016		
Honduras	-	November 2005		
Nicaragua	April 2017	-		
Panama	September 2017	January 2022		
Saint Lucia	-	January 2022		
St Kitts and Nevis	December 2020	January 2022		
St. Vincent and the Grenadines	-	March 2021		

Recommendation - MACHC is invited to **review their entry in the IHO Yearbook P-5 and C-55** and to provide the IHO Secretariat with the appropriate updates or to report no change (CL 20/2019 refers)



IHO IHO OUTREACH

- International Hydrographic Organization
- The theme for WHD 2022 is "Hydrography contributing to the United Nations Ocean Decade"
- As announced with IHO CL 42/2022, the proposed theme for WHD 2023 is *"Hydrography underpinning the digital twin of the ocean"*
- Through IHO CL 03/2022, since 5 January 2022, the IHR has a new editor Dr Patrick Westfeld from Germany; IHR volumes from the entire collections (1923 to 2018) are available online <u>https://journals.lib.unb.ca/index.php/ihr</u>

Recommendation - *MACHC Members are invited to* **submit papers for publication in the IHR**



IHO ACTION REQUESTED OF MACHC

- International Hydrographic Organization
- a) Note this report
- b) Consider all the Recommendations proposed in this report
- **c) Review** entries related to IHO C-55 and P-5 (Yearbook) annually
- **d) Consider** submitting papers for publication in the International Hydrographic Review
- e) Take any other actions as considered appropriate



