



# SWPHC20

## IHO Secretariat Report

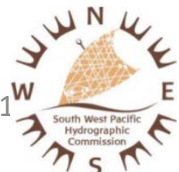
**Leonel Manteigas**

IHO Assistant Director for Coordination & Capacity Building

**SWPHC20**

Wellington, New Zealand, 22-24 February 2023

South West Pacific Hydrographic Commission





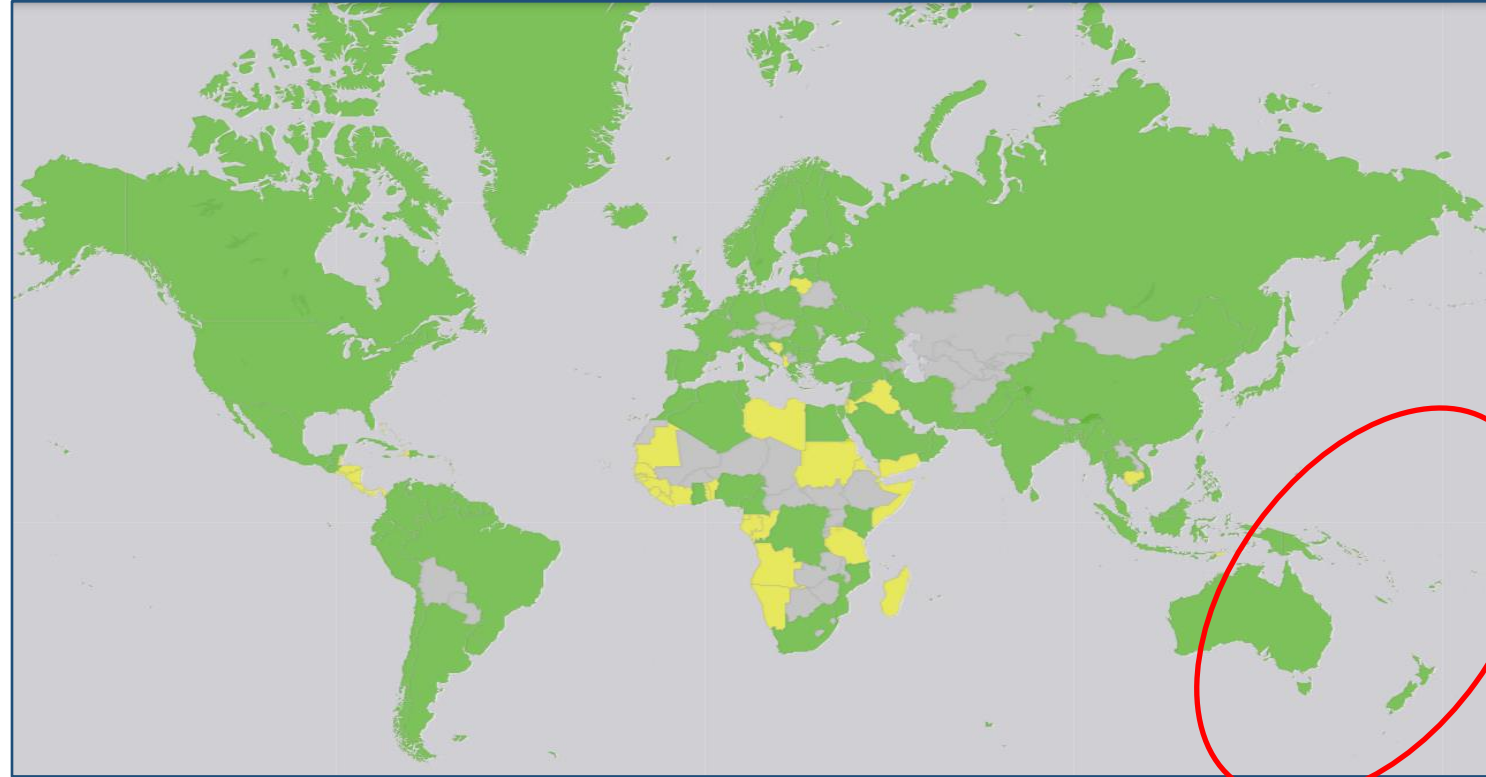
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# IHO MEMBERSHIP & REGIONAL APPLICATION FOR IHO MEMBERSHIP

International  
Hydrographic  
Organization

- Since SWPHC19 **Albania** acceded to the IHO Convention
- Membership now stands at 98
- Serbia and Syria remain suspended

## IHO Membership



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



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# OUTCOMES OF THE 6TH MEETING OF THE IHO COUNCIL

International  
Hydrographic  
Organization

- IHO Work Programme and Budget for 2023 and the **three-year 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**

*Evolving the hydrographic support for safety and efficiency of maritime navigation, undergoing profound transformation*

- To develop **guidelines for the automated production of paper charts** meeting S-4 chart minimum content requirements from S-101 ENC data
- Approved **version 1.0 of the Guidelines** on the Implementation of the **WEND-100 Principles**

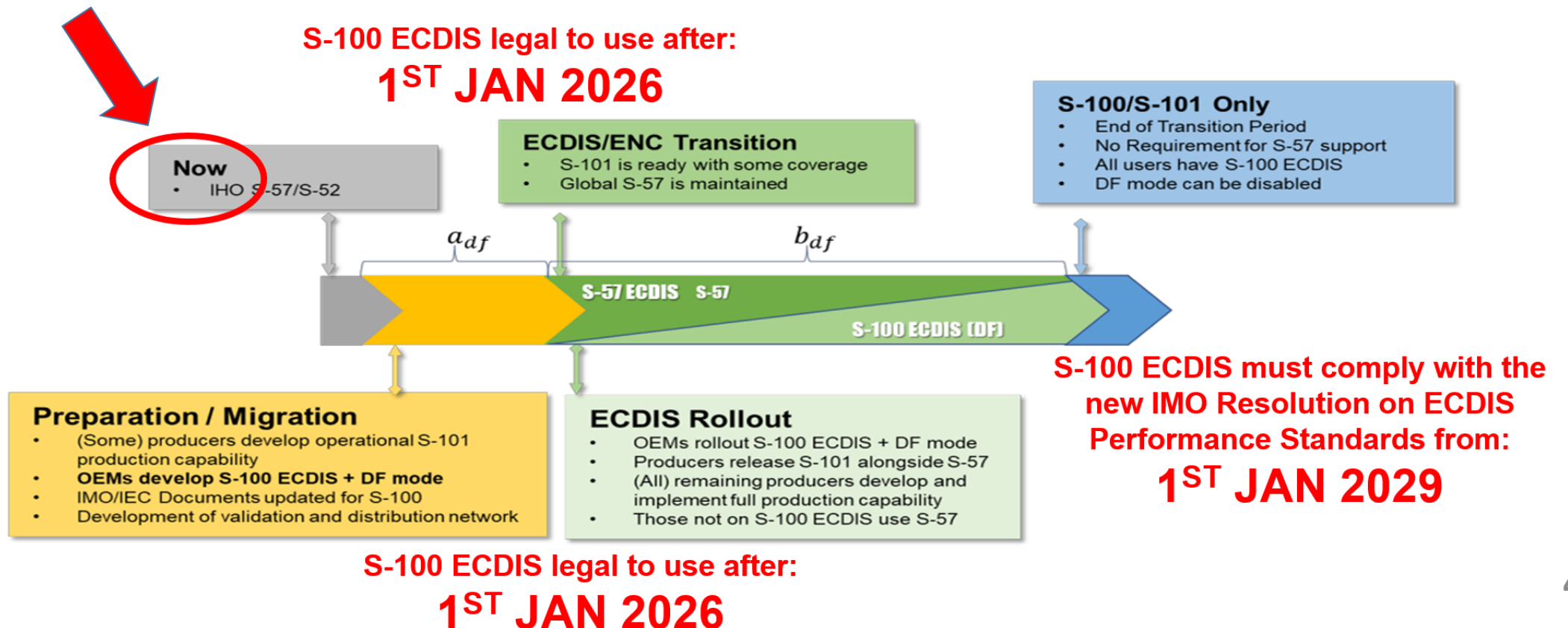


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# OUTCOMES OF THE 6TH MEETING OF THE IHO COUNCIL

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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.
- Endorsed the Dual Fuel Concept for S-100 ECDIS Executive Summary.





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## **OUTCOMES OF THE 6TH MEETING OF THE IHO COUNCIL**

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- IHO CL 43/2022Rev1 provides the distribution of the **20 Council seats allocated to the RHCs (Fiji and New Zealand)**. 10 remaining seats will be determined by the table of tonnages
- 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.



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# OUTCOMES OF THE 6TH MEETING OF THE IHO COUNCIL

International  
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Organization

***Recommendations:*** SWPHC 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*





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# PREPARATION OF THE 3RD SESSION OF IHO ASSEMBLY

International  
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Organization

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

## NEW DATES AND VENUE

- Date: 2 - 5 May 2023
- Venue: Grimaldi Forum, Monaco



GRIMALDI FORUM

SALLE PRINCE PIERRE



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Wellington, New Zealand, 22-24 February 2023

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



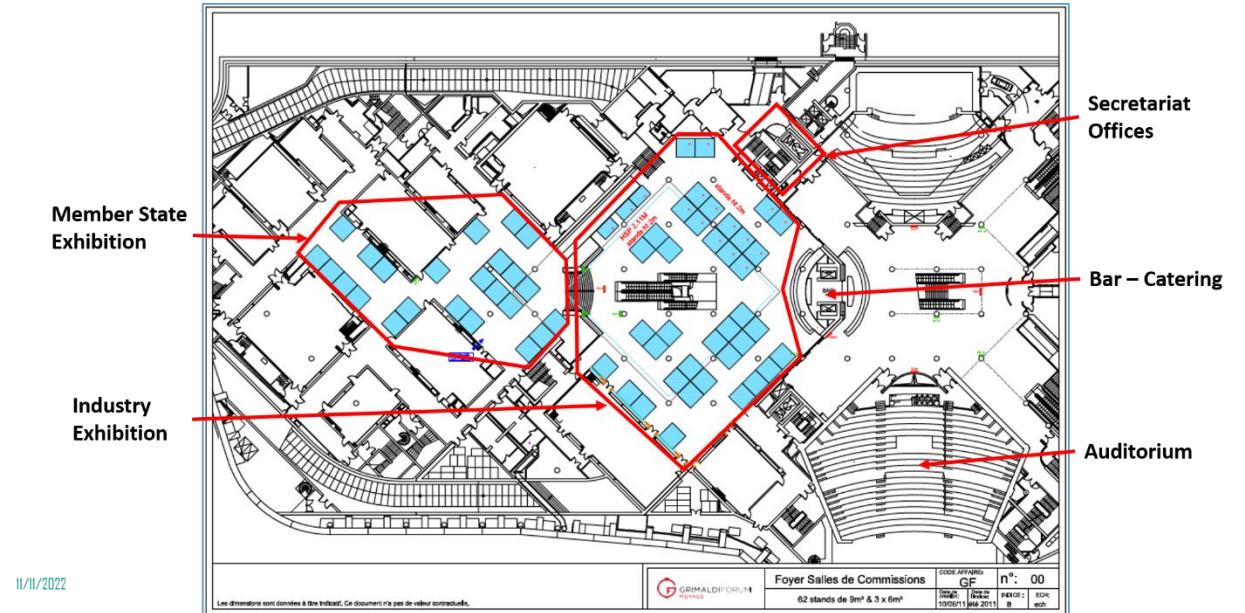
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# PREPARATION OF THE 3RD SESSION OF IHO ASSEMBLY

International  
Hydrographic  
Organization

Most Documents such as the Redbook are now available on the IHO website:  
[www.iho.int](http://www.iho.int) > *Home* > *About IHO* > *Assembly* > *3rd Session of the Assembly (2023)* > *Circular Letters*  
& *Documents*).

Registration is available from  
1 September 2022 to **20 March 2023**



**Recommendation:** *SWPHC* members are encouraged to **register on line their delegations** and the Member States that have joined the Organization since the 1st Session of the IHO Assembly to **respond to the invitation letter to present their flag (Vanuatu, Solomon Islands and Samoa).**

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# CAPACITY BUILDING PROGRAMME

International  
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- The 2022CBWP funded activities not executed in 2022 can be moved to the 2023CBWP
- The CB finance situation will be more difficult in 2023 with the expected reduction of the non-earmarked funds
- From the 1,317,414 euros of available funds the expenditures in 2022 CBWP summed 889,138 Euros (67% of execution), significantly higher than the 192,097 euros in 2021.
- SWPHC has 3 funded CB projects in the 2022CBWP:
  - 2022/P-05 Workshop on Disaster Response
  - 2022/P-28 MSI Regional Workshop (from 2021 P-06) (Fiji)
  - **2022/P-29 Technical Workshop on Hydrographic Governance (from 2021 P-07)**



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# **CAPACITY BUILDING PROGRAMME - COURSES**

International  
Hydrographic  
Organization

- 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. More 2 selected for 2023/2024.
- 14 students for the 13th and 14th GEOMAC courses in Cartography Cat B (see IHO CL 19/2022) sponsored by Nippon Foundation. Expect to have the approval of the 2023-2026 proposal soon.
- 10 students for 2022 Cat B Hydrographic Survey Programme sponsored by the Republic of Korea. CL07 Call for applications Nautical Cartography Cat B (9 students)



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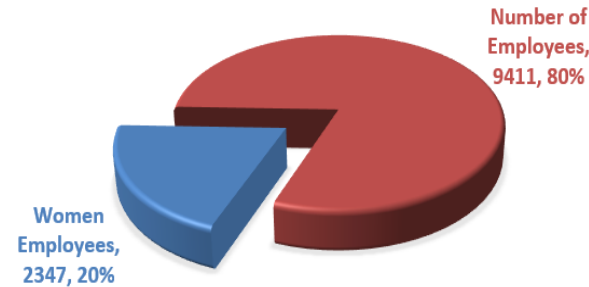
# EMPOWERING WOMEN IN HYDROGRAPHY (EWH) PROJECT

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IHO CL 26/2022: survey to determine the percentage of female employees in Hydrographic Offices and in leadership roles

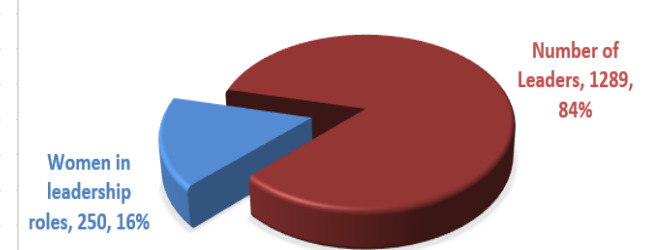
## TOTAL NUMBER OF EMPLOYEES VS TOTAL WOMEN EMPLOYEES

39 Responses received to CL26/2022



## NUMBER OF LEADERS VS WOMEN IN LEADERSHIP ROLES

39 Responses received to CL26/2022

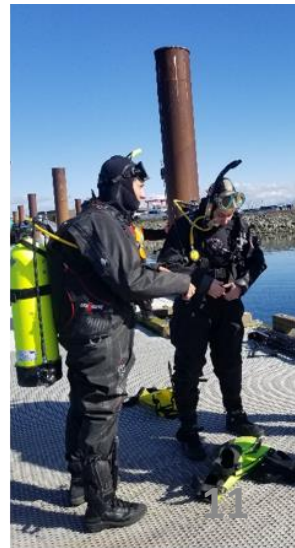


IOC endorsed the project entitled ***“No. 62.2 - Empowering Women in Hydrography”*** as a project forming part of the ***UN Decade of Ocean Science for Sustainable Development 2021-2030***.



Fisheries and Oceans  
Canada

Pêches et Océans  
Canada



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# CAPACITY BUILDING PROGRAMME - COURSES

International  
Hydrographic  
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***Recommendations:*** SWPHC 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-cb-sc-ewh>) set up under the Capacity Building Sub-Committee (CBSC) for this project, and answer to the Questionnaire issued with IHO CL 26/2022
- ***Provide contributions*** of online learning material ***to*** the Project Team established for ***the IHO e-Learning Center***.



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# MARITIME SAFETY INFORMATION SERVICES

International  
Hydrographic  
Organization

**Recommendations:** SWPHC 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.



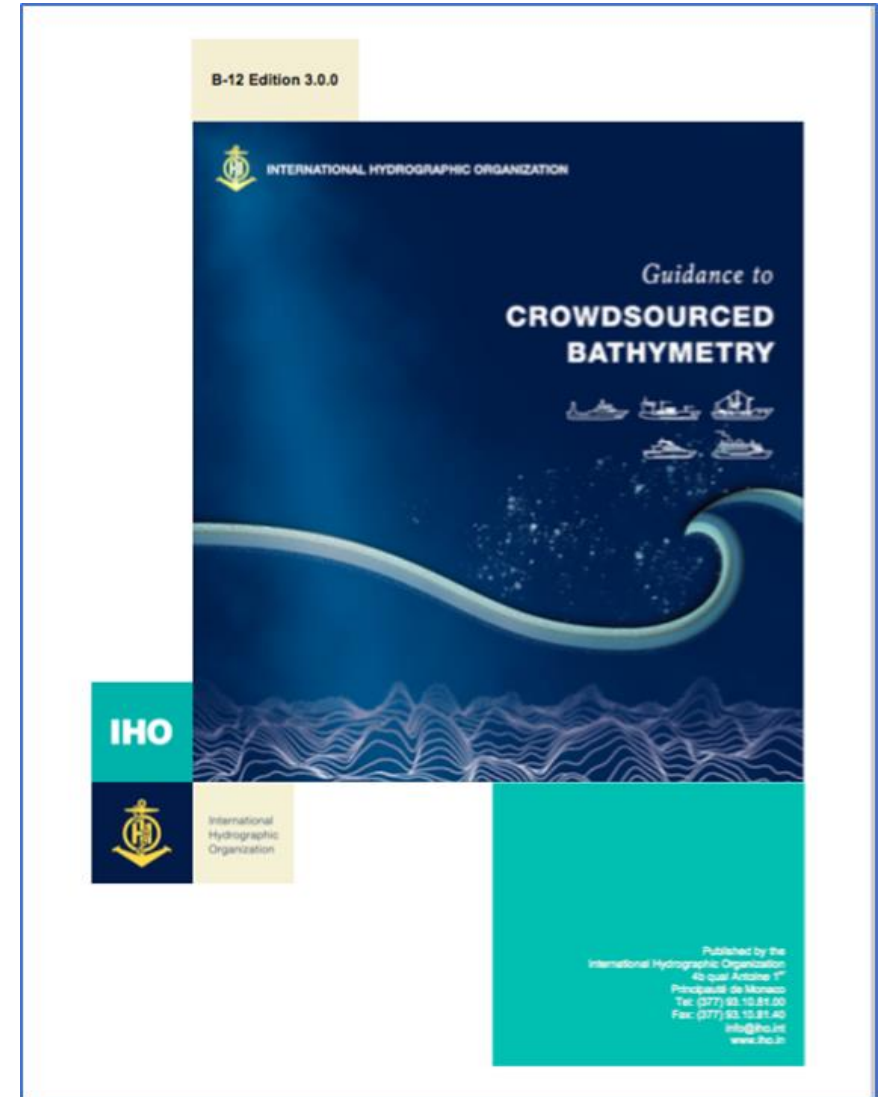


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# CROWDSOURCED BATHYMETRY - GEBCO - SEABED 2030

International  
Hydrographic  
Organization

- ***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)



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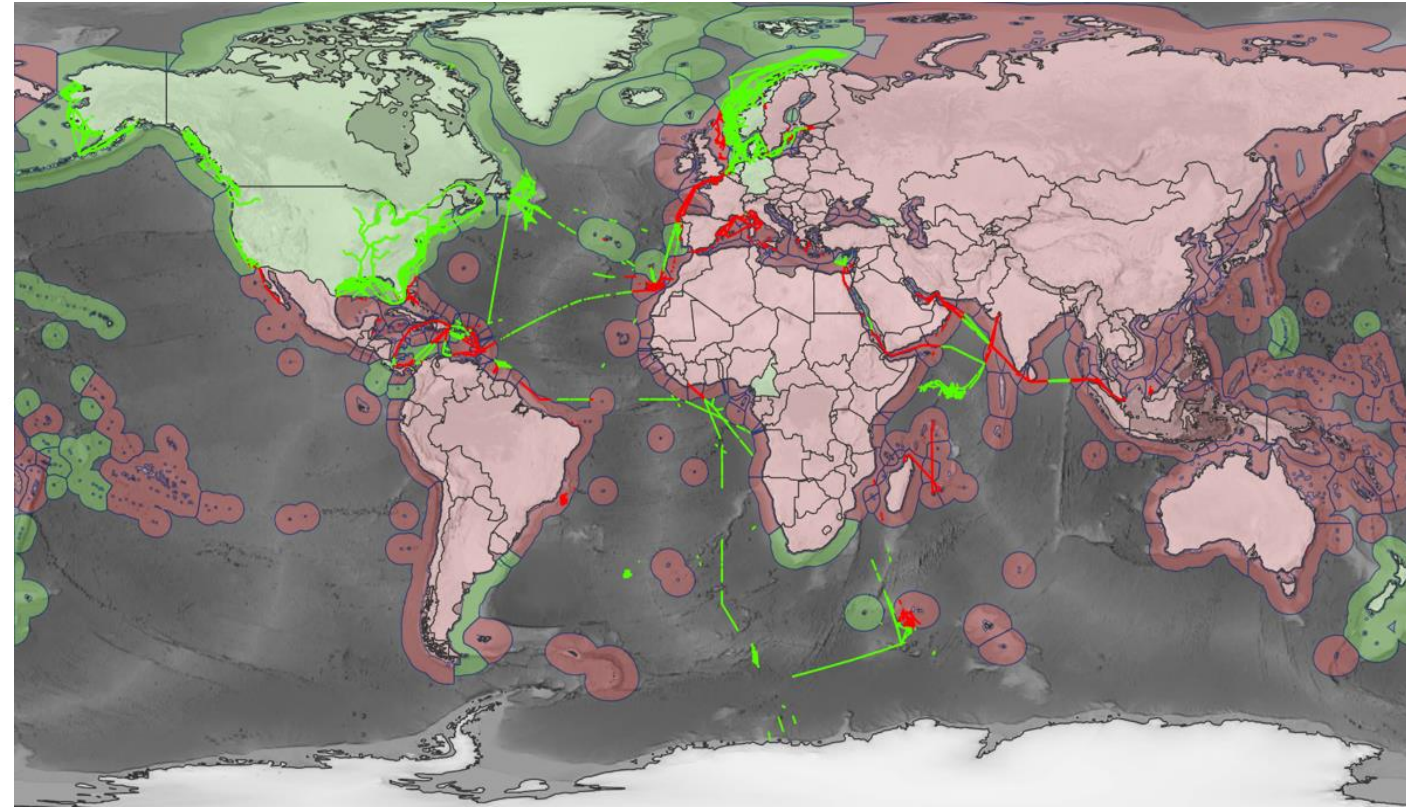
# CROWDSOURCED BATHYMETRY - GEBCO - SEABED 2030

International  
Hydrographic  
Organization

- Circular Letters (IHO CL 21/2020 and IRCC CL 1/2020) requesting MS to indicate their positions on the provision of CSB received 32 replies



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.**





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# CROWDSOURCED BATHYMETRY - GEBCO - SEABED 2030

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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***



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# **CROWDSOURCED BATHYMETRY - GEBCO - SEABED 2030**

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Organization

- It was decided to review the GEBCO Governance and write a GEBCO Strategy aligned with the IHO Strategic Plan (2021-2026) and the IOC Medium Term Strategy (2022-2029)
- With IHO CL 10/2022 the IHO advised on the 19th course of the IHO-IOC-Nippon Foundation/GEBCO Training Program 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



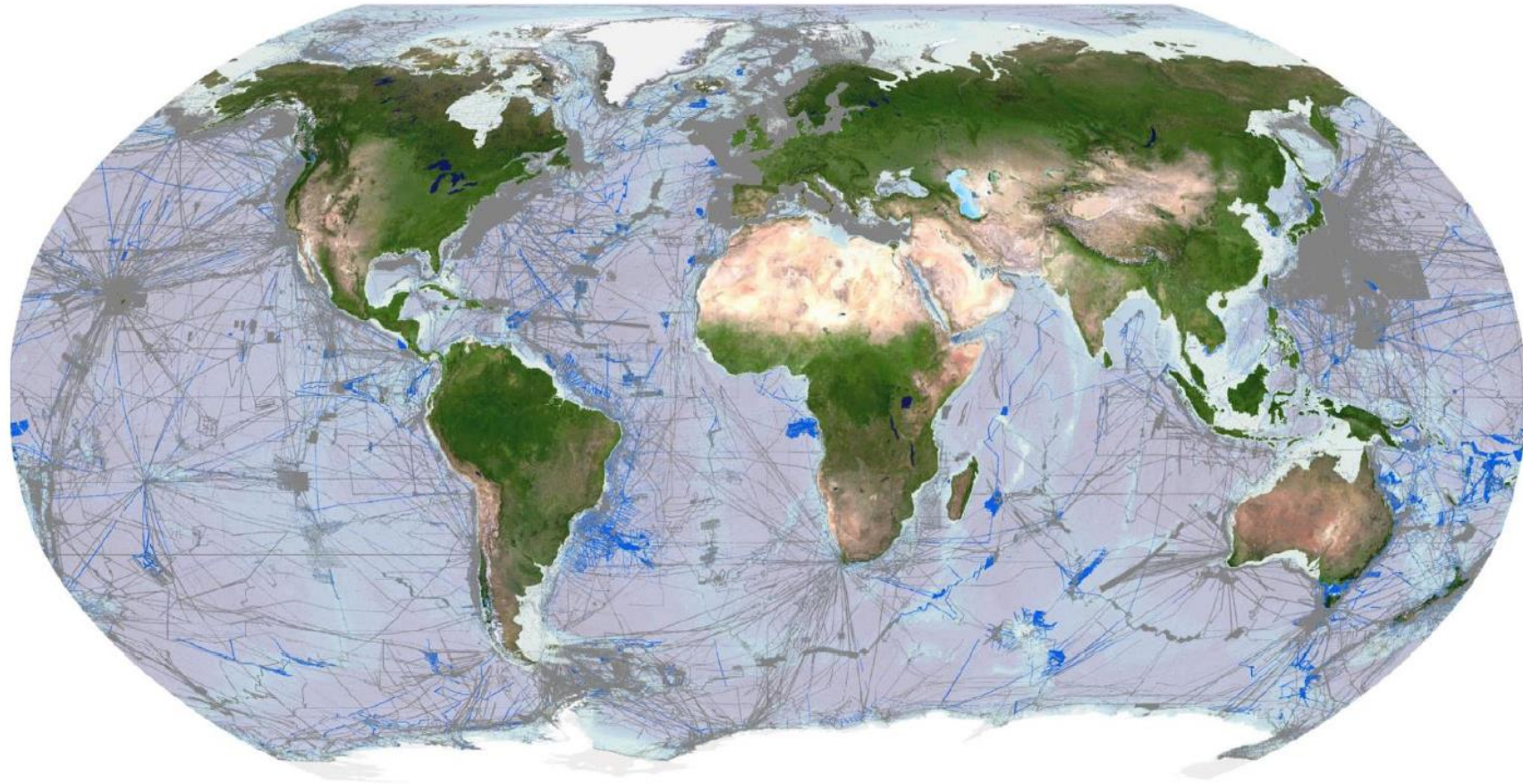


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# CROWDSOURCED BATHYMETRY - GEBCO - SEABED 2030

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- 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*

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# CROWDSOURCED BATHYMETRY - GEBCO - SEABED 2030

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Organization

***Recommendations:*** SWPHC 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***

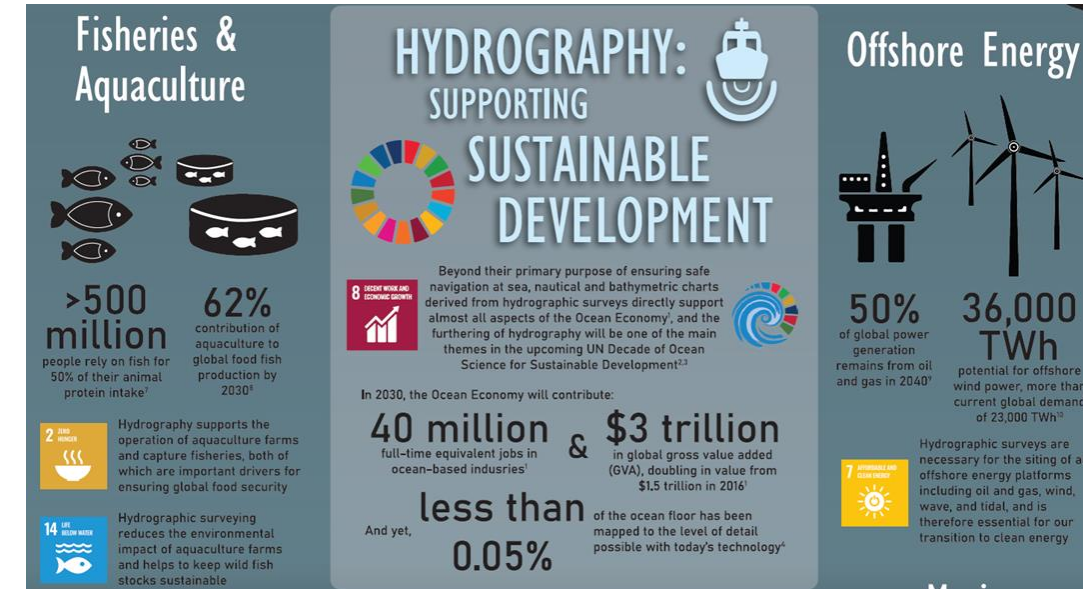


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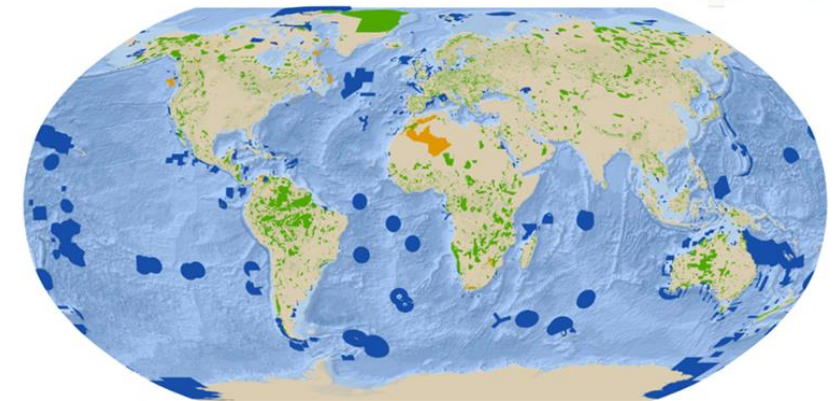
# IHO AND UNITED NATIONS DECADE OF OCEANS FOR SUSTAINABLE DEVELOPMENT

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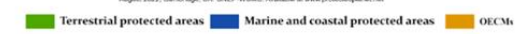
- **Depth** to be added to the list of **Essential Ocean Variables (EOVs)**
- For the “Global Ocean Alliance” to protect 30% of the world’s land mass (land and ocean) by 2030, **SP-122 – Marine Protected Areas** will play a role in supporting the sustainable use
- **IHO asked** by the Organization for Economic Co-operation (OECD) **to be the key point of contact for seabed mapping and hydrography**



Protected areas and OECMs of the world



Source: UNEP-WCMC and IUCN (2022). Protected Planet: The World Database on Protected Areas (WDPA) and World Database on Other Effective Area-Based Conservation Measures (WD-OECM) [On-line]. August 2022. Cambridge, UK: UNEP-WCMC. Available at [www.protectedplanet.net](http://www.protectedplanet.net)



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# 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 Last update received	C-55 Last update received
Australia	January 2021	February 2019
Fiji	March 2022	January 2019
France	January 2022	January 2022
New Zealand	July 2021	February 2021
Papua New Guinea	March 2020	December 2016
Samoa	March 2020	December 2016
Solomon Islands	March 2020	January 2020
Tonga	March 2020	March 2014
United Kingdom	July 2022	February 2022
United States	June 2022	February 2018
Vanuatu	October 2021	January 2018

**Recommendation - SWPHC 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)***

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IHO OUTREACH

International  
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Organization

- As announced with IHO CL 42/2022, the proposed theme for WHD 2023 is ***“Hydrography - underpinning the digital twin of the ocean”***
- IHR volumes from the entire collections (1923 to 2018) are available online <https://journals.lib.unb.ca/index.php/ihr>
- Next volume will be a special number dedicated to the celebration of the IHR centenary

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



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## **ACTION REQUESTED OF SWPHC**

International  
Hydrographic  
Organization

- a) Note this report**
- b) Consider all the Recommendations proposed in this report**
- c) Review information 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**

**SWPHC20**

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South West Pacific Hydrographic Commission

