

Agenda Item 4

IHO SECRETARIAT REPORT

Report to IRCC16

ISLA SANTA CRUZ, 10 – 12 June 2024

By Luigi SINAPI

IHO Director



IHO

International
Hydrographic
Organization

IRCC16
ISLA SANTA CRUZ, 10 – 12 June, 2024

IRCC16-04

IHO MEMBERSHIP

- Since IRCC15 IHO membership now stands at **100** (Capo Verde and Kiribati)
- The IHO Secretariat is working for enlarging IHO membership
- IRCC, via the RHCs, is kindly invited to support the IHO Secretariat in engaging coastal and landlocked States in the respective Regions.

	IHO Member States	IMO/OMI : 172
	Other Coastal States	IOC / COI : 148
	Other Landlocked States	IHO / OHI : 100



IHO

International
Hydrographic
Organization

IRCC16
ISLA SANTA CRUZ, 10 – 12 June, 2024

IRCC16-04

PREPARATIONS OF COUNCIL-8

- C-8 will take place in Monaco, from 15 to 17 October 2024
- CCL 01/2024 - Announcement of the Eight Meeting of the IHO Council and Provisional Agenda:
 - ✓ Update on the activities of the IHO Fund Generation Project Team
 - ✓ Update on the Empowering Women in Hydrography Project
 - ✓ Update on contributions to the UN Ocean Decade
 - ✓ Update on activities to acquire new IHO Member States
 - ✓ Initial discussion on the revision of the IHO Strategic Plan based on inputs from subordinate bodies (HSSC, IRCC), Member States and IHO Secretariat
 - ✓ Report on inclusive participation in IHO meetings and proposed Resolution.



IHO

International
Hydrographic
Organization

IRCC16
ISLA SANTA CRUZ, 10 – 12 June, 2024

IRCC16-04

PREPARATIONS OF COUNCIL-8

- CCL 02/2024 - IHO Annual Report for 2023 and Approval of the Finance Report for 2023, with attention to the allocation of the budget surplus for 2023 of 215k€, as follows:
 - ✓ 50,000 Euro to the Assembly Fund,
 - ✓ 15,000 Euro to the Special Project Fund,
 - ✓ 40,000 Euro to the Capacity Building Fund,
 - ✓ 10,000 Euro to the IBSC Fund,
 - ✓ 40,000 Euro to the Renovation and Enhancement Fund,
 - ✓ 60,000 Euro to the Relocation Fund
- The deadline for submitting proposals to C-8 is 15 July 2024.



IHO STRATEGIC PLAN (2021-2026) UPDATE AND IHO STRATEGIC PLAN REVIEW

GOAL 1

SPI 1.1.1	Metrics	Member States distribute at least one product based on S-100.						
	Year	2021	2022	2023	2024	2025	2026	60% ²
		0%	0%	0%	-	-	-	60% ²
SPI 1.1.2	Metrics	Product Specifications should be operational (e.g. Edition 2.0.0 approved by Member States.)						
	Year	2021	2022	2023	2024	2025	2026	10 ³
		0	0	0	-	-	-	10 ³
SPI 1.2.1	Metrics	10 Product Specifications (same as in SPI 1.1.2) includes cyber security and data quality assessment.						
	Year	2021	2022	2023	2024	2025	2026	10 ⁴
		0	0	0	-	-	-	10 ⁴
SPI 1.3.1 ¹	Metrics	Ability and capability of Member States to meet the requirements and delivery phases of the S100 implementation plan. Target 50%.						
	Year	2021	2022 ¹	2023 ²	2024	2025	2026	50%
		-	Yes	53%	-	-	-	-

¹The SPI measures the ability and capability to meet the requirements, not the production itself.

SPI 1.2.2	Metrics	Navigationally significant areas: areas covered by ENC's in Usage Bands 5 to 3. Indicator: % data coverage in ENC's, where CATZOC value is other than U (Unassessed) and Unavailable.						
	Year	2021	2022	2023	2024	2025	2026	100%
	A-USCHC	83.3%	87,3%	-	-	-	-	-
	B-MACHC	96.1%	97,7%	-	-	-	-	-
	C1-SWAtHC	99.4%	99,4%	-	-	-	-	-
	C2-SEPRHC	86.9%	87,4%	-	-	-	-	-
	D-NSHC	99.5%	99,9%	-	-	-	-	-
	E-BSHC	92.8%	91,3%	-	-	-	-	-
	F-MBSHC	88.6%	89,8%	-	-	-	-	-
	G-EAtHC	80.0%	79,4%	-	-	-	-	-
	H-SAIHC	93.3%	93,3%	-	-	-	-	-
	I-RSAHC	68.2%	67,4%	-	-	-	-	-
	J-NIOHC	68.3%	63,1%	-	-	-	-	-
	K-EAHC	51.4%	54,6%	-	-	-	-	-
	L-SWPHC	98.5%	98,8%	-	-	-	-	-
M-HCA	79.0%	81,4%	-	-	-	-	-	
N-ARCH	18.0%	16,4%	-	-	-	-	-	



IHO

International Hydrographic Organization

IRCC16
ISLA SANTA CRUZ, 10 – 12 June, 2024

IRCC16-04

IHO STRATEGIC PLAN (2021-2026) UPDATE AND IHO STRATEGIC PLAN REVIEW

GOAL 2

SPI 2.1.1	Metrics	Portal in design phase, download counting technology to be implemented.					
	Year	2021	2022	2023	2024	2025	2026
SPI 2.2.2		Number of hits downloading data/information from the portal					
	Metrics	Number of downloads of S-44. New applications/survey methods/platforms used as a result of S-44 Edition 6.0.0.					
	Year	2021	2022	2023	2024	2025	2026
	Downloads/Applications	59/0	312/0	1312/0	-	-	-
SPI 2.3.1	Metrics	Extension of P-5 required.					
	Year	2021	2022	2023	2024	2025	2026
		Number of HOs reporting success applying the UN shared guiding principles for geospatial information management in order to ensure in their national contexts. % of Yes/Full (from 34 Member States)					
	Representation		72%	72%	-	-	-
	Governance		81%	81%	-	-	-
	Compliance		94%	94%	-	-	-

SPI 2.2.1	Metrics	Technology to generate percentage figures from C-55 under discussion.					
	Year	2021	2022	2023	2024	2025	2026
		Percentage of adequately surveyed area per coastal state					
		Number of Coastal States within the percentage band of adequate surveyed areas (C55)					
	0%<= area< 25%, depth <200m		69	70	-	-	-
	0%<= area< 25%, depth >200m		82	81	-	-	-
	25%<= area< 50%, depth <200m		25	25	-	-	-
	25%<= area< 50%, depth >200m		20	20	-	-	-
	50%<= area< 75%, depth <200m		20	23	-	-	-
	50%<= area< 75%, depth >200m		17	18	-	-	-
	75%<= area< =100%, depth <200m		34	31	-	-	-
	75%<= area< =100%, depth >200m		21	20	-	-	-
		Number of RHCs within the percentage band of area mapped (GEBCO)					
	0%<= area< 25%, depth <200m		18	-	-	-	-
	0%<= area< 25%, depth >200m		12	-	-	-	-
	25%<= area< 50%, depth <200m		1	-	-	-	-
	25%<= area< 50%, depth >200m		7	-	-	-	-
	50%<= area< 75%, depth <200m		0	-	-	-	-
	50%<= area< 75%, depth >200m		0	-	-	-	-
	75%<= area< =100%, depth <200m		0	-	-	-	-
	75%<= area< =100%, depth >200m		0	-	-	-	-



IHO

International Hydrographic Organization

IRCC16
ISLA SANTA CRUZ, 10 – 12 June, 2024

IRCC16-04

IHO STRATEGIC PLAN (2021-2026) UPDATE AND IHO STRATEGIC PLAN REVIEW

GOAL 3

Metrics		Notable activities undertaken under the IHO Work Programme 1 in four categories.					
Year		2021	2022	2023	2024	2025	2026
Global outreach		13	15	15	-	-	-
Regional outreach		4	4	4	-	-	-
Stakeholder's specific outreach		15	25	21	-	-	-
Consultations		2	2	6	-	-	-
SPI 3.1.1	Metrics	Percentage of Coastal States that are capable to provide marine safety information (MSI) according to the joint IMO/IHO/WMO manual on MSI [WWNWS and CBSC tasked to develop a collaborative approach how to measure and count.]					
	Year	2021	2022	2023	2024	2025	2026
			62%	87%	-	-	-

SPI 3.2.1	Metrics	Amount of data received per year by the IHO Data Centre for Digital Bathymetry (DCDB tasked to start measurement.)					
	Year	2021	2022	2023	2024	2025	2026
	Datasets/Surveys		375	180	-	-	-
SPI 3.2.2	Metrics	Number of contributors to DCDB who are not hydrographic offices (DCDB tasked to measure.)					
	Year	2021	2022	2023	2024	2025	2026
			4	3	-	-	-
SPI 3.2.3	Metrics	Percentage of total sea area that is Seabed 2030 compliant for ingestion into the GEBCO dataset and services [DCDB tasked to start measurement in collaboration with BOC (UK).]					
	Year	2021	2022	2023	2024	2025	2026
			23,4%	24,9%	-	-	-

- With IHO CL 26/2024 the IHO P-7 – 2023 Annual Report was approved



IHO

International Hydrographic Organization

IRCC16
ISLA SANTA CRUZ, 10 – 12 June, 2024

IRCC16-04

IHO STRATEGIC PLAN (2021-2026) UPDATE AND IHO STRATEGIC PLAN REVIEW

The Strategic Plan Review Working Group (SPRWG) under the chairmanship of the Council Vice-Chair, started working via correspondence, establishing that the revised Strategic Plan will be developed using a bottom-up approach, involving HSSC and IRCC and the Regional Hydrographic Commissions. Terms of Reference (ToRs) and Rules of Procedures (RoPs) were drafted and a first revision of the Timeline for SPRWG was issued.

(draft) Timeline for Strategic Plan Review Working Group (SPRWG) rev.1			
2024	IHO meeting	SPRWG	HSSC / IRCC / RHC
Nov		<ul style="list-style-type: none"> Establishment (November 1st) Review the current Strategic Plan Reflect inputs and comments from C-9 	
Dec		<ul style="list-style-type: none"> Call for additional members (if needed) 	
2025			
Jan			
Feb		<ul style="list-style-type: none"> Draft a revised SP Prepare documents to propose the draft SP for consideration at HSSC17 and IRCC17 	
Mar			
Apr		<ul style="list-style-type: none"> Submit the draft SP to HSSC17 and IRCC17 	
May	HSSC17 (Norway)		<ul style="list-style-type: none"> Consider and <u>comment</u> the draft IHO SP at HSSC17
Jun	IRCC17 (Nigeria)		<ul style="list-style-type: none"> Consider and <u>comment</u> the draft IHO SP at IRCC17
Jul		<ul style="list-style-type: none"> Reflect inputs and comments from HSSC and IRCC on the draft SP Submit the revised draft SP to C-9 	
Aug			
Sep			
Oct	C-9 (Monaco)		<ul style="list-style-type: none"> Consider and endorse the revised IHO SP at C-9
Nov		<ul style="list-style-type: none"> Reflect inputs and comments from C-9 on the draft SP 	
Dec		<ul style="list-style-type: none"> Submit a report on the work of the SPRWG and facilitate Council's submission of the revised IHO SP (final draft) to A-4 	



INTERNATIONAL COOPERATION AND INITIATIVES OF THE IHO

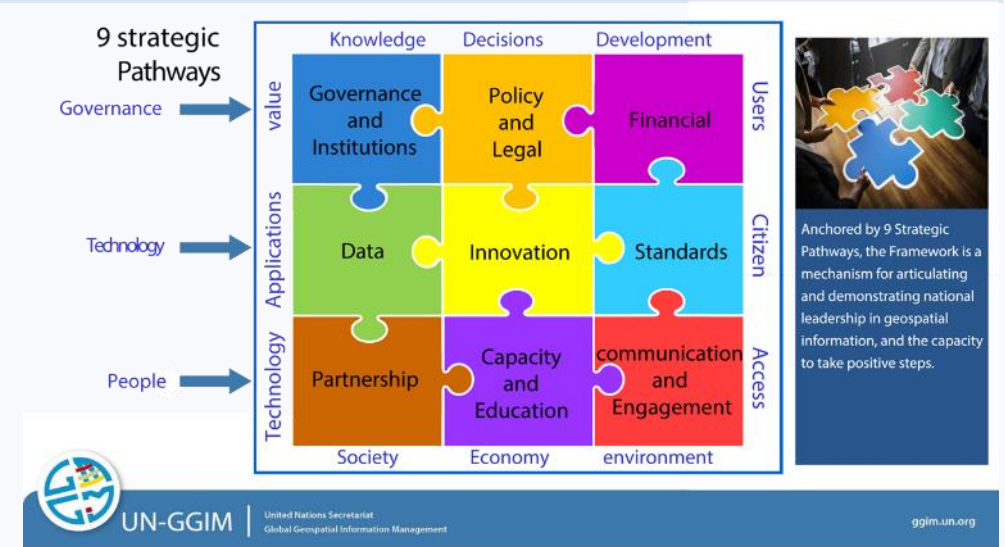
UNGGIM:

United Nations Operational Framework for Integrated Geospatial Information Management Part Two: The Strategic Pathways” was endorsed and the complete *“United Nations Operational Framework for Integrated Geospatial Information Management” (UN-IGIF-Hydro)* was adopted

UN-DOALOS:

Participation in a two-day international symposium hosted by the UN-DOALOS and IOC-UNESCO aimed to the strengthening of the ocean science-policy interface.

S-121 and S-122 in the light of the recent approval of the BBNJ agreement.



IHO

International
Hydrographic
Organization

IRCC16
ISLA SANTA CRUZ, 10 – 12 June, 2024

IRCC16-04

INTERNATIONAL COOPERATION AND INITIATIVES OF THE IHO

UN DECADE:

Two satellite-events: OECD-IHO on *“The seabed data we need for the ocean we want”* and IMO-WMU-IHO on *“Empowering Women for the Ocean Decade: Achieving Gender Equality in Ocean Sciences and Policy Making”*

UNOC25:

Initial contacts have been tentatively taken with the Principality of Monaco and the Foundation Prince Albert II for identifying themes to be presented in joint events during the *“Blue Economy and Finance Forum” (BEFF)* that will be hosted in Monaco on 7-8 June 2025 and at UNOC25 (9-13 June 2025).



IHO

International
Hydrographic
Organization

IRCC16
ISLA SANTA CRUZ, 10 – 12 June, 2024

IRCC16-04

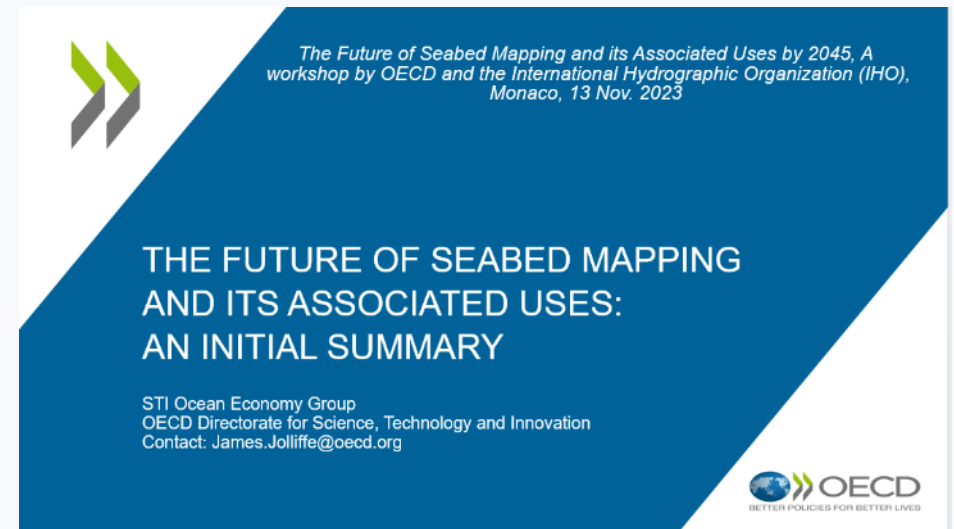
INTERNATIONAL COOPERATION AND INITIATIVES OF THE IHO

OECD:

Joint IHO-OECD workshop to explore how the anticipated acceleration of seabed exploration, mapping and eventual improved monitoring could make a difference in key areas of the ocean economy and beyond, supporting the OECD foresight project on *The ocean economy in 2045*.

IOC-UNESCO:

During the IOC 32nd Assembly in June 2023, the 120th Anniversary of GEBCO was celebrated at the IOC-UNESCO HQs at the presence of the Ambassador of Monaco to UNESCO. GEBCO Strategy (2024-2030) and report on GEBCO Governance Review will be presented at the next IOC-UNESCO Executive Council in June 2024.



IHO

International
Hydrographic
Organization

IRCC16

ISLA SANTA CRUZ, 10 – 12 June, 2024

IRCC16-04

INTERNATIONAL COOPERATION AND INITIATIVES OF THE IHO

IMO:

- A. *Technical Cooperation Committee (TCC)*: to share best practices and research synergies in the field of Capacity Building / Capacity Development related to MSI and S-100 implementation.
- B. *Maritime Safety Committee (MSC) and Navigation, Communications and Search and Rescue (NCSR) Sub-Committee*: to update on the progress of S-100 implementation and availability of printed nautical charts. Future progression on the implementation of the S-100 Roadmap will be regularly reported by IHO to IMO (NCSR), based on respective IHO Member States and Regional Hydrographic Commissions reports to provide the geographic coverage of S-101, other S-1xx products, ENDS schemes, and production plans per Charting Regions by digital means

TASK (as per IHO CL 43/2023)	IHO CL issue date	MS Response due
S-100 Edition 5.2.0	January 2024	May 2024
S-100 Phase 1 Endorsement	October 2024	December 2024



IHO

International
Hydrographic
Organization

IRCC16
ISLA SANTA CRUZ, 10 – 12 June, 2024

IRCC16-04

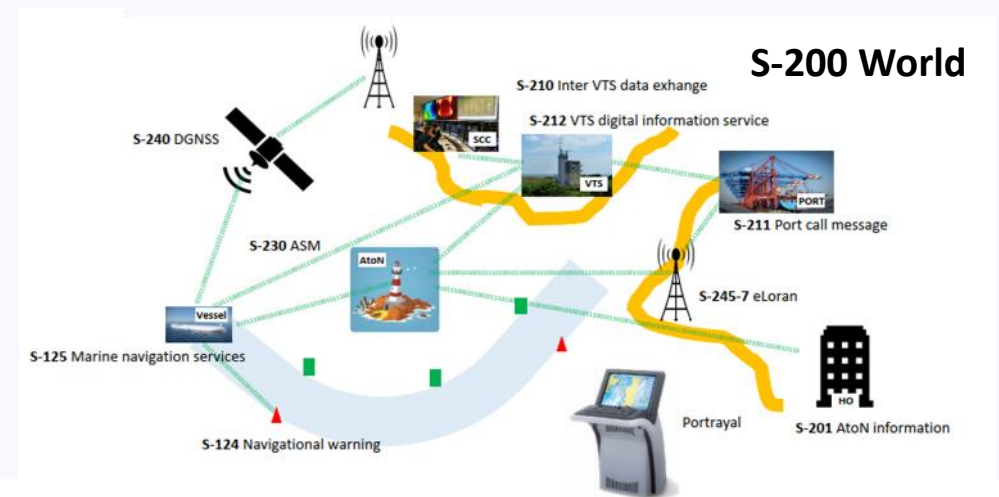
INTERNATIONAL COOPERATION AND INITIATIVES OF THE IHO

WMO:

Revision of the joint IMO/IHO/WMO manual on MSI and the S-124 on Navigational Warnings.
Participation in Standing Committee on Marine Meteorological and Oceanographic Services (SC-MMO) and for the development of the global Multi Hazard Early Warning System (EW4ALL) and Expert Team on Maritime Safety (ET-MS) for S-41x products.

IALA:

Development of S-2xx products and services and Digitization of the safety of navigation through the participation at the Digital@Sea conferences, and cooperation in the field of Capacity Building (Technical Visits, seminars and workshops).



IHO

International
Hydrographic
Organization

IRCC16

ISLA SANTA CRUZ, 10 – 12 June, 2024

IRCC16-04

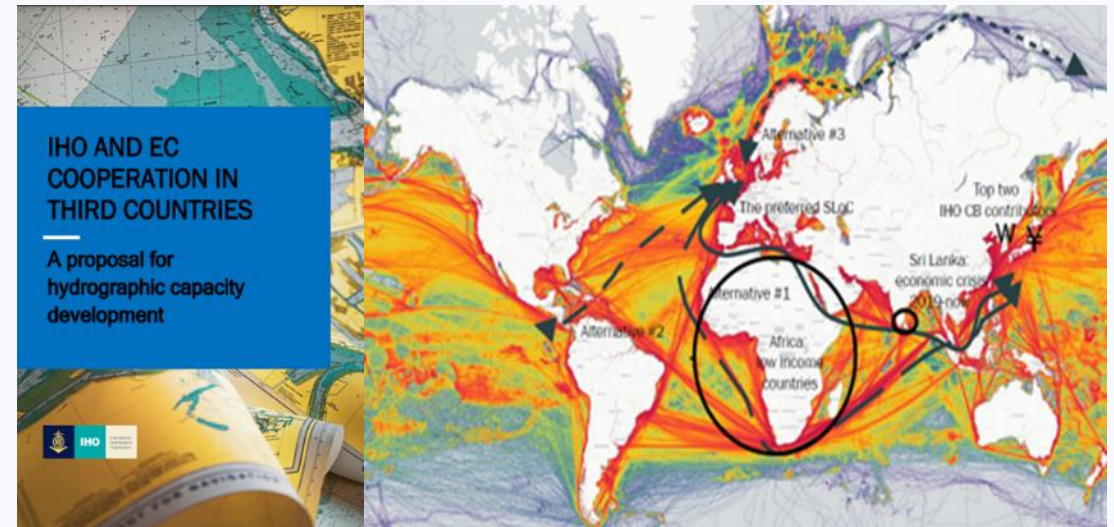
INTERNATIONAL COOPERATION AND INITIATIVES OF THE IHO

EUROPEAN UNION:

Memorandum of Understanding (MoU) between the IHO and the European Commission (EC) signed in 2012 and renewed in 2022, and “IHO and EC Cooperation in Third Countries for Hydrographic Capacity Development” to affirm the need of a resilient network of Sea Line of Communications (SLoCs) between Europe and East Asia and Africa.

IMPA:

Letter of Intent signed by IHO and IMPA on the implementation of the S-100 Universal Hydrographic Data Model and the experimentation and test-bed of its derived products at regional and national level.



IHO

International
Hydrographic
Organization

IRCC16

ISLA SANTA CRUZ, 10 – 12 June, 2024

IRCC16-04

INTERNATIONAL COOPERATION AND INITIATIVES OF THE IHO

Joint IHO/IMO/WMO/IOC/IALA/IAEA/FIG CB:
13th joint meeting held in May 2024 marked the restart of the joint CB coordination meetings bringing together representatives from eight organizations to coordinate efforts for building and developing capacity in line with the United Nations concept of "Delivering as One".

EWH project:

Thanks to the generous support from Belgium, Denmark, France, Norway, USA, UK, IC-ENC and Canada, new current and future opportunities under the project in line with the Action C7/24 have been offered to the IHO MS. the IHO Secretariat has started a selection for contracting an EWH Assistant for a period of 1 year (+ 1).



IHO

International
Hydrographic
Organization

IRCC16
ISLA SANTA CRUZ, 10 – 12 June, 2024

IRCC16-04

IHO OUTREACH

921,575 views of IHO webpage in 2023, LinkedIn page grew to 9,650 followers in May 2025 and 322,413 total post impressions in 2023. The Secretariat has increased its presence on social media through articles and news about its working groups, committees and subcommittees, especially in the framework of the UN Ocean Decade and the next appointment for the Ocean (UNOC2025).



New issue of the International Hydrographic Review



Guidance on use of satellites to gather depth data



The IHO visits the Commonwealth of the Bahamas



IHO

International
Hydrographic
Organization

IRCC16
ISLA SANTA CRUZ, 10 – 12 June, 2024

IRCC16-04

IHO OUTREACH – WORLD HYDROGRAPHY DAY

- IHO CL 01/2024 announced the theme for WHD 2024:

“Hydrographic Information - Enhancing Safety and Efficiency in Marine Activities”

This theme is proposed to highlight that Goal Number 1 of the IHO Strategic Plan and its targets shall have the highest priority in the implementation of the 2024–2026 Work Programme: priority in application of material and human resources, liaison with public sector and industry partners, promotion of concerted regional approaches including increased collaboration with the RENCs, and support of test beds delivering best practice examples for the production, maintenance and distribution of all prioritized S100 derivatives.



IHO

International
Hydrographic
Organization

IRCC16
ISLA SANTA CRUZ, 10 – 12 June, 2024

IRCC16-04

IHO OUTREACH – INTERNATIONAL HYDROGRAPHIC REVIEW

- Dr Patrick Westfield was confirmed for additional 2 years as IHR Editor.
- The Review is focused in facilitating interdisciplinary knowledge exchange in applied science, as hydrography encompasses fields such as geophysics, oceanography, geodesy, acoustics, cartography, remote sensing and others. The recent IHR Vol.30 Ed. May 2024 covers themes as oceanography, geodesy, geology and of course hydrography, with contributions on crowdsourcing water depth data.



IHO

International
Hydrographic
Organization

IRCC16
ISLA SANTA CRUZ, 10 – 12 June, 2024

IRCC16-04

ACTIONS REQUESTED OF IRCC:

- **Note** the report,
- **Consider** to support the IHO Secretariat in enlarging the IHO membership,
- **Provide** input to the SPRWG in accordance with the timeline,
- **Discuss** the opportunity to meet in Monaco in 2025,
- **Encourage** the RHCs to increase the participation in the EWH project using the financial and in-kind opportunities provided by the IHO Member States,
- **Take any actions** as considered appropriate.



IHO

International
Hydrographic
Organization

IRCC16
ISLA SANTA CRUZ, 10 – 12 June, 2024

IRCC16-04