

# 2023 Alumni Workshop

IHO-ROK Category "A"

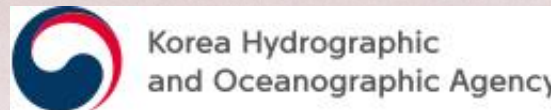
12-14 September 2023 / Busan, Republic of Korea

# IHO Capacity Building Strategy and Programme

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CBSC Secretary



# Summary

- CB objectives
- CB Work Programme priorities
- CB activities
- IHO-ROK Hydrography Cat A - USM
- Partnerships to share resources and expertise
- Revised CB Strategy
- New initiatives

# CB Objective

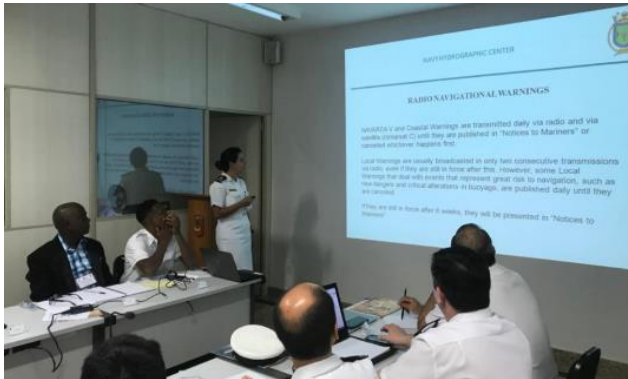
## Contribute to the creation of capacities to a sustainable development

- Continuously **assesses the status** of hydrographic surveying, nautical charting and maritime safety information worldwide (CB Phases)
- Close relationships with national agencies and international organizations
- Cooperates with Regional Hydrographic Commissions



Coastal State/Territory	NH[C]C	Phase 1	Phase 2	Phase 3	Last TV
Albania	1	3	2/3	2/3	2016
Algeria	0	3	4	2/3	-
Bulgaria	1	4	2	3	N/A
Croatia	1	4	4	4	N/A
Cyprus	2	2	3	2	1999
Egypt	0	4	4	2/3	-
France	2	4	4	4	N/A
Georgia	2	2	2	2	2018
Greece	1	4	4	4	N/A
Israel	1	4	2	2	2014
Italy	2	4	4	4	N/A
Lebanon	1	1	1/3	1/3	2019
Libya	-1	-1	-1	-1	-
Malta	1	2	2	2	N/A
Monaco	0	3	3	3	N/A
Montenegro	0	2	2	2	2016
Morocco	0	3	3	3	-
Palestinian Authority	-1	-1	-1	-1	-
Romania	1	2	2	2	2008
Russian Federation	2	4	4	4	N/A
Serbia	0	2	2	2	-
Slovenia	0	4	4	4	N/A
Spain	2	4	4	4	N/A
Syrian Arab Republic	-1	-1	-1	-1	-
Tunisia	1	2	2	2/3	N/A
Turkey	2	4	4	4	N/A
Ukraine	1	4	4	4	N/A

# CB Phases



## Phases of Development

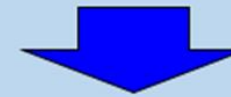
### Phase 0

Raise awareness



### Phase 1

Collection and circulation of nautical information, necessary to maintain existing charts and publications up to date



### Phase 2

Creation of a surveying capability to conduct:

- Coastal projects
- Offshore projects



### Phase 3

Produce paper charts, ENC and publications independently

# CB Long term objectives

Phase 1 for all Countries with navigable waters;

National plan for Phase 2 and 3;

Develop 'country profiles' to measure the state of hydrography in every coastal state.



# CB Work Programme - Priorities

Evaluation of the RHC's submissions (procedure 4):

- Phase 1, 2 and 3;
- Number of States that benefitted;
- External funding;
- Neediness, according to the GDP;
- Priority within RHC;
- Potential for success from the IHO viewpoint;
- Discount for recent similar activities;
- General importance of CB in the region.



# Revised CB Strategy

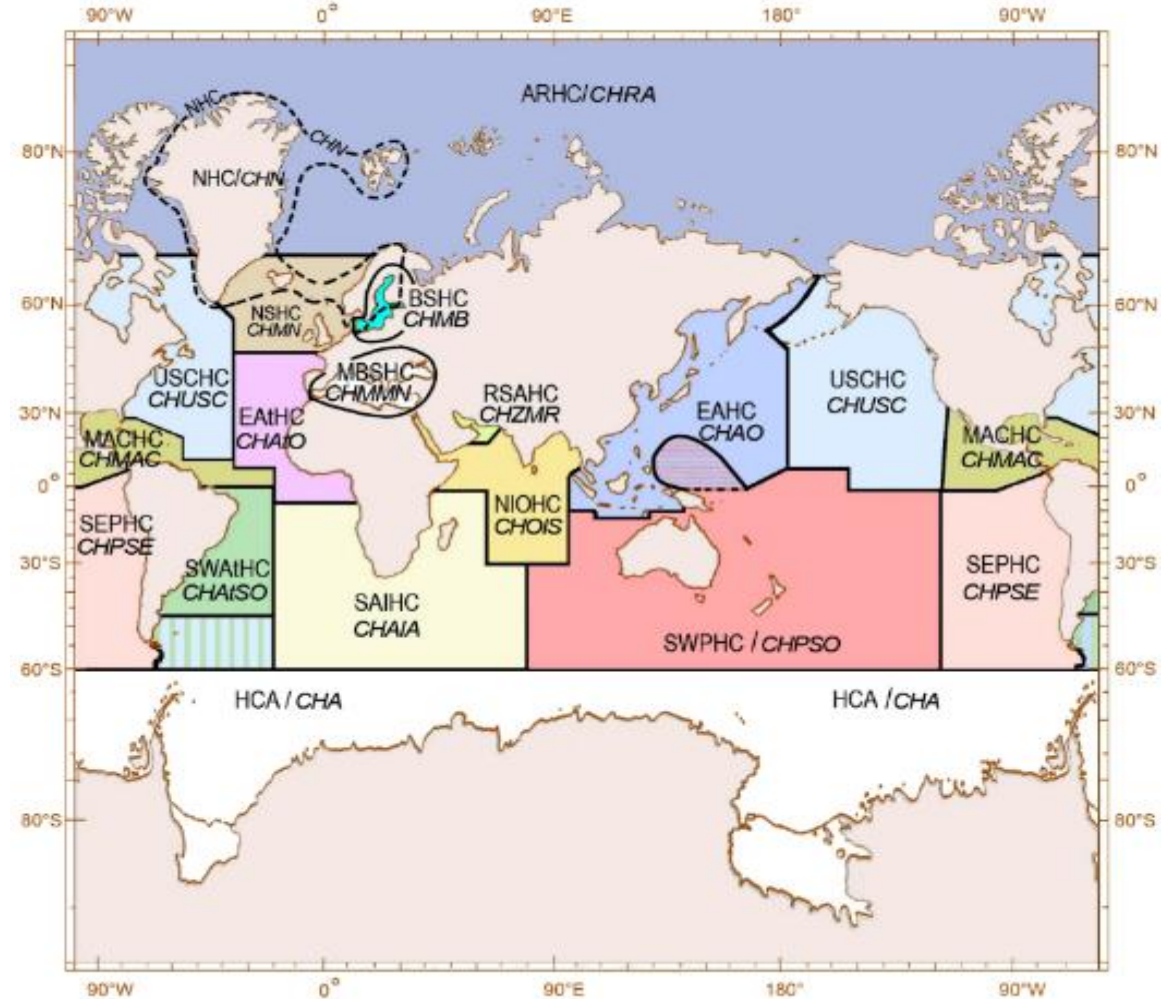
- CB revised the CB Strategy
- To define the context and the processes that will lead to improving global hydrographic capability, capacity, training, science, data management, and techniques.
- A Gap analysis was conducted between new IHO Strategy and the CB strategy identifying three work items:
  - Draft aligned CB strategy
  - Update phases of development (to include a phase 0 on governance)
  - Add a 5th step to the process of the CB Strategy (Awareness; Assessment; Analysis; Action) to address Measures of Effectiveness (MoE)

# Regional Hydrographic Commissions

15 RHCs + Hydrographic Commission on Antarctica

Regional coordination of

- Charting schemes
- Capacity building and assistance
- Bilateral cooperation
- Technical cooperation
- Training





# CBSC Activities

Broad variety of activities:

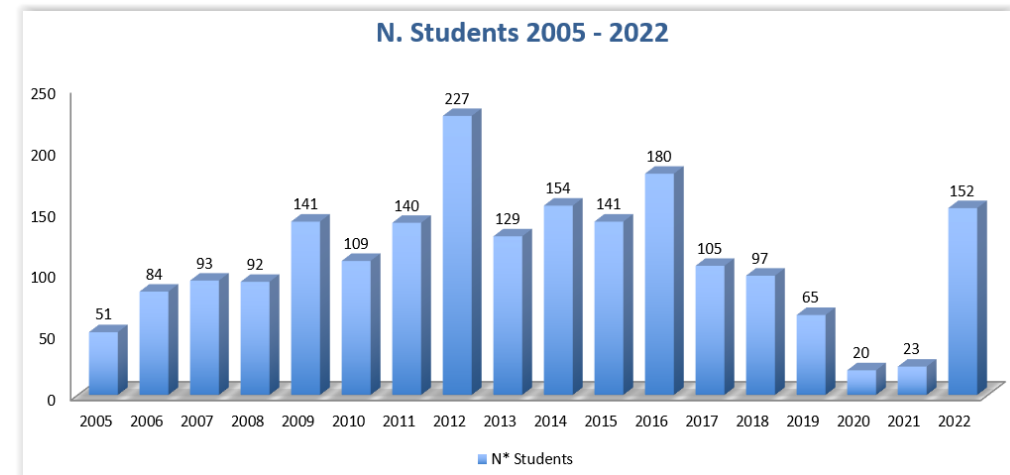
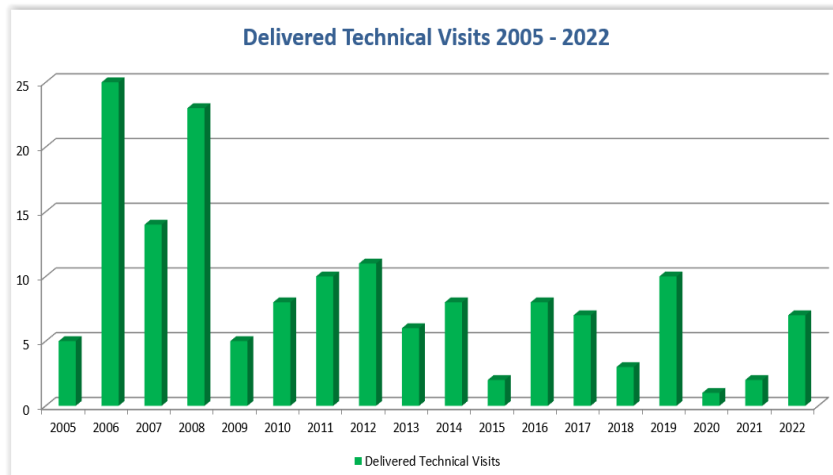
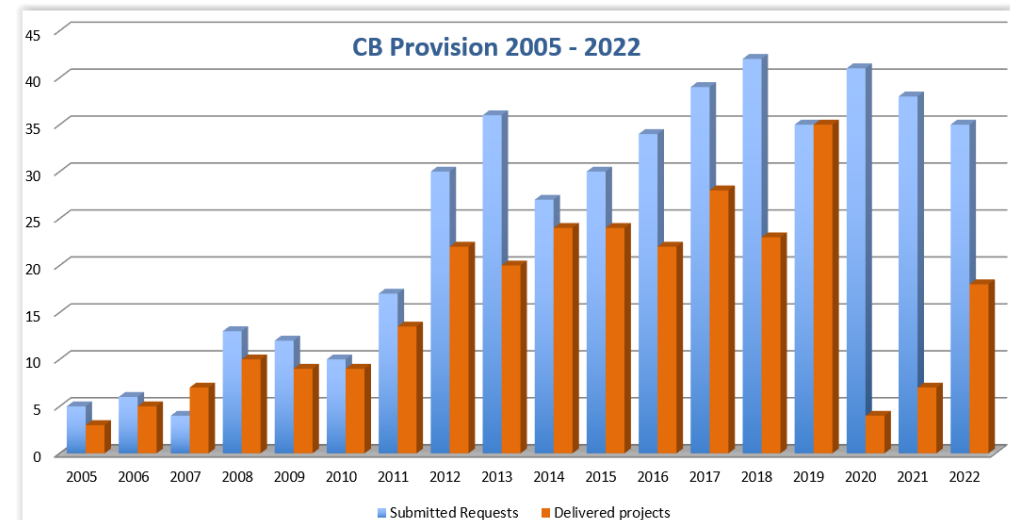
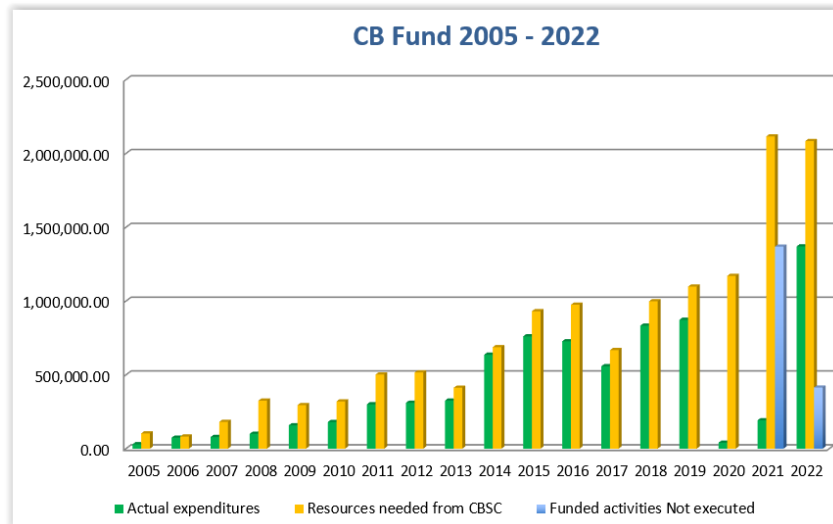
- High level visits
- Technical visits
- Training
- Education
- Technical assistance
- Involvement in comprehensive projects

INTERNATIONAL HYDROGRAPHIC ORGANIZATION  
Adopted 2021 CBWP

IHO WP Element: Capacity Building Provision - Technical Workshops, Seminars, Courses					
No.	Events	Responsible	Budget	Status	Resources
P-01	ROK Category "A" Programme	Secretariat	93,495 €	Led by USM, Hattiesburg, USA 1 August 2021-1 August 2022 DONE	ROK
P-01A	ROK Category "A" Programme (Delayed from 2020)	Secretariat	46,747 €	Led by USM, Hattiesburg, USA 1 August 2021-1 August 2022 DONE	ROK
P-02	ROK Category "B" Hydrographic Surveying Program	Secretariat	338,603 €	Led by KHOA, Busan, ROK July-December 2021	ROK
P-03	IHO-NF GEOMAC (Geospatial Marine Analysis and Cartography)	Secretariat	298,866 €	POSTPONED TO 2022	Nippon
P-03A	IHO-NF GEOMAC (Geospatial Marine Analysis and Cartography) Delayed from 2020	Secretariat	265,291 €	POSTPONED TO 2022	Nippon
P-04	Training for Trainers - Basic Hydrography	Secretariat	80,943 €	Led by KHOA, Busan, ROK July 2021 DONE	ROK
P-05	Webinair on Using AI as Sonar Noise Classifier	MBSHC	0 €	Led by Turkish Navy-Office of Navigation, Hydrography and Oceanography 22 NOV21	-
P-06	MSI Regional Workshop	SWPHC	34,400 €	POSTPONED TO 2022	IHO
P-07	Technical Workshop on Hydrographic Governance	SWPHC	33,500 €	POSTPONED TO 2022	IHO
P-08	MSI (training on establishment of MSI structure and basic MSI procedure)	NIOHC	22,120 €	POSTPONED TO 2022	IHO
P-09	MSI Course (from 2020 P-37 with updated costing)	SAIHC	20,580 €	POSTPONED TO 2022	IHO
P-10	S-100 seminar on the future of hydrographic products and services	EAtHC	20,000 €	CANCELED	IHO
P-11	Raising awareness workshop on S-100/S-101	RSAHC	14,940 €	POSTPONED TO 2022	IHO
P-12	Seminar on Raising Awareness of Hydrography	SWAtHC	3,160 €	POSTPONED TO 2022	IHO
P-13	Seminar on Raising Awareness of Hydrography	NIOHC	17,250 €	POSTPONED TO 2022	IHO



# CBSC Activities



# Typical funded activities

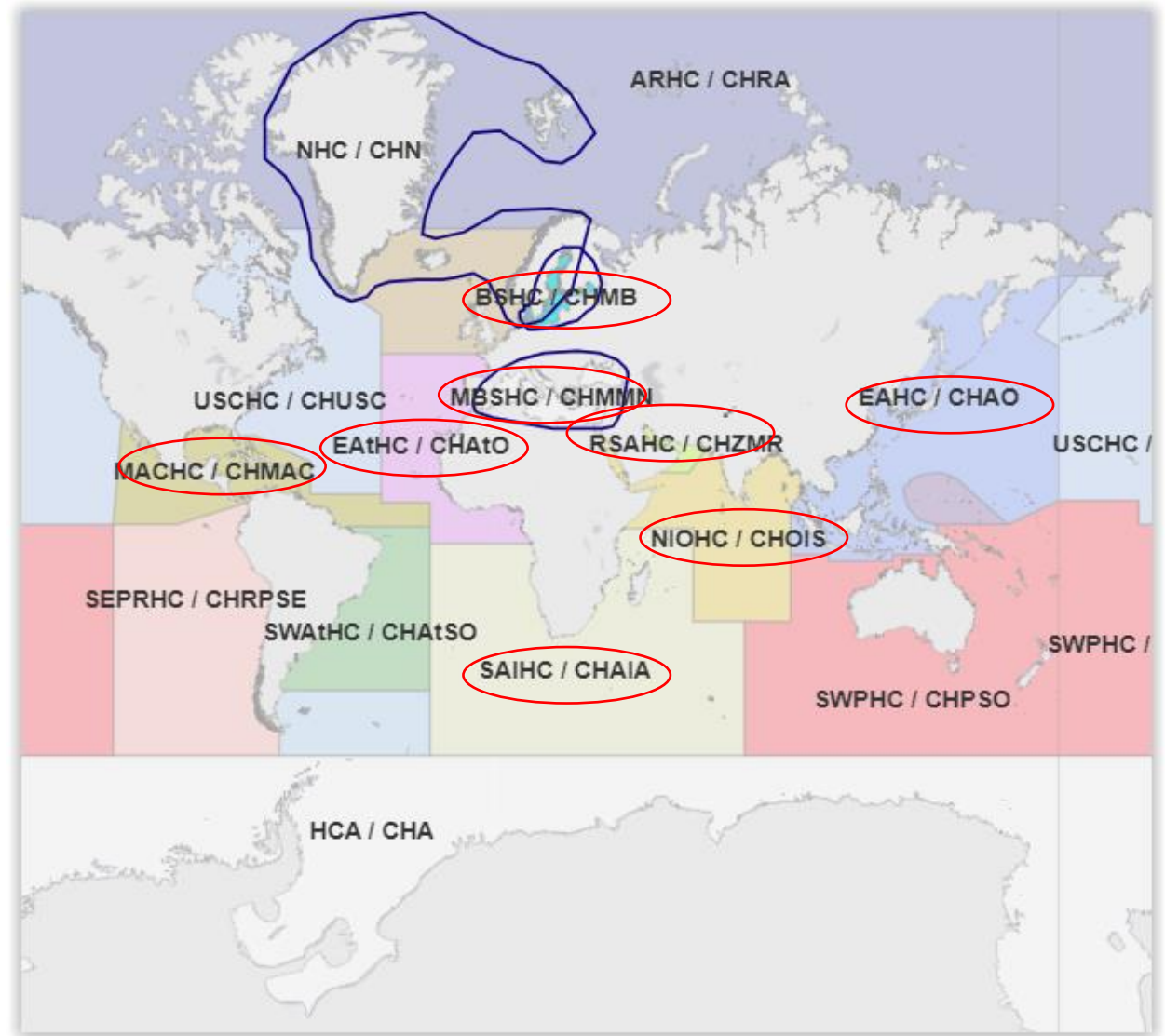
Source of Funds	Phases	Examples of activities
<p><u>Non earmarked:</u></p> <p>IHO</p> <p>ROK</p> <p>Other MS</p>	Phase 0	<p>High level visits</p> <p>Technical visits</p>
	Phase 1	<p>MSI Courses</p> <p>Seminars</p> <p>Workshops</p>
	Phase 2	<p><b>ROK Hydrography Cat A - USM</b></p> <p>ROK Hydrography Cat B course</p> <p>ROK TFT courses Hydro/Carto</p> <p>ROK Nautical Cartography Cat B course</p>
	Phase 3	<p>Nippon Foundation GeoMAC course</p>
<p><u>Earmarked:</u></p> <p>ROK</p> <p>Nippon F.</p>	Phase 0	
	Phase 1	
	Phase 2	
	Phase 3	

# IHO - ROK Hydrography Cat A - USM (21 alumni)

Year	Country	Name	Position	Organization
2022-2023 (1)	Guatemala	Mr. Diego Fernando MENDEZ PORTA	Navy Officer	Direccion general de Asuntos Marítimos
	Philippines	Mr. Marlon ESTROPIA	Hydrographer, Electronics Engineer	National Mapping and Resource Information Authority (NAMRIA)
2021-2022 (3)	Bangladesh	Mr. Zubayer AHMED	Officer in Charge, Chart Department	Bangladesh Navy Hydrographic and Oceanographic Center (BNHOC)
	Thailand	Mr. Nuttachai LUANGARAM	Officer of Hydrographic database and international maritime boundary section	Hydrographic Department, Royal Thai Navy
2019-2020 (2)	Mexico	Mr. Adrian MONTUFAR	Sub-Director of Hydrographic Surveys	Secretaria de Marina-Armada de Mexico
	Tunisia	Mr. Rami LAMOUCHE	Marine Navigation Engineer	Tunisian Navy Hydrographic and Oceanographic Center
2018-2019 (2)	Estonia	Mr. Kirill ANJUTIN	Senior Hydrographer	Estonian Maritime Administration
	Malaysia	Mr. Mohd Massuoadi bin MOHD ZUKRI	Staff Officer of Hydrographic Operation	National Hydrographic Centre
2017-2018 (1)	Romania	Ms. Valentina Cornelia PAVEL	Navy Officer	Romanian Hydrographic Directorate, Navy
2016-2017 (2)	Malaysia	Mr. Abdul Halim AHMAD NORDIN	Staff Officer in Policy and Development (Survey Technical) Department	National Hydrographic Centre
	Philippines	Mr. Gilbert Avila ALVIOLA	Chief Survey Officer of a survey vessel	National Mapping and Resource Information Authority
2015-2016 (4)	Bahrain	Mr. Jasim BUTAIBA	Hydrographic Surveyor	Hydrographic Information & Map Production Section, Hydrographic Survey Directorate
	Mauritius	Mr. Devendra Ragoonath MADHOW	Senior Surveyor	Ministry of Housing and Lands
	Nigeria	Mr. Babatunde Luqman AKANBI	Instructor	Nigerian Navy Hydrographic School Borokiri, Port Harcourt Nigeria
	Romania	Mr. Lucian DUTU	Hydrographic Surveyor	Romanian Hydrographic Directorate, Navy
2014-2015 (3)	Bangladesh	LtCdr. Shaikh Imtiaz Bin FIROZ	Executive Officer	Bangladesh Naval Academy
	Nigeria	Sub Lt. Uchechukwu Kelechi EREGI	Instructor	Nigerian Navy Hydrographic School, Nigerian Navy Hydrographi Office
	Philippines	Mr. Maylord DE CHAVEZ	Hydrographic Surveyor	National Mapping and Resource Information Authority
2013-2014 (3)	Bangladesh	LtCdr. Mohammad Minhaz UDDIN	Staff Officer	Bangladesh Navy Hydrographic and Oceanographic Centre
	Jamaica	Mr. Antonio Aitherando Jamau WILLIAMS	Chief Hydrographer	Survey and Mapping Division, National Land Agency
	Mauritius	Mr. Hembal TECKMUN	Senior Surveyor	Hydrographic Unit, Ministry of Housing and Lands

# IHO - ROK Hydrography Cat A - USM (21 alumni)

Countries (13)	Participants (21)	RHC (8)
Bahrain	1	RSAHC
Bangladesh	3	NIOHC
Estonia	1	BSHC
Guatemala	1	MACHC
Jamaica	1	MACHC
Malaysia	2	EAHC
Mauritius	2	SAIHC
Mexico	1	MACHC
Nigeria	2	EAtHC
Philippines	3	EAHC
Romania	2	MBSHC
Thailand	1	EAHC/NIOHC
Tunisia	1	MBSHC



# Partnerships



# IHO e-Learning Center

- The 2<sup>nd</sup> IHO Assembly endorsed the installation of an IHO e-Learning Center
- The 3<sup>rd</sup> IHO Assembly was informed on the installation
- Main reasons include the recognition of:
  - The importance and potential of the e-Learning
  - The incrementation of the e-Learning during and post-pandemic
  - The initiative from Republic of Korea to support the IHO e-Learning Center

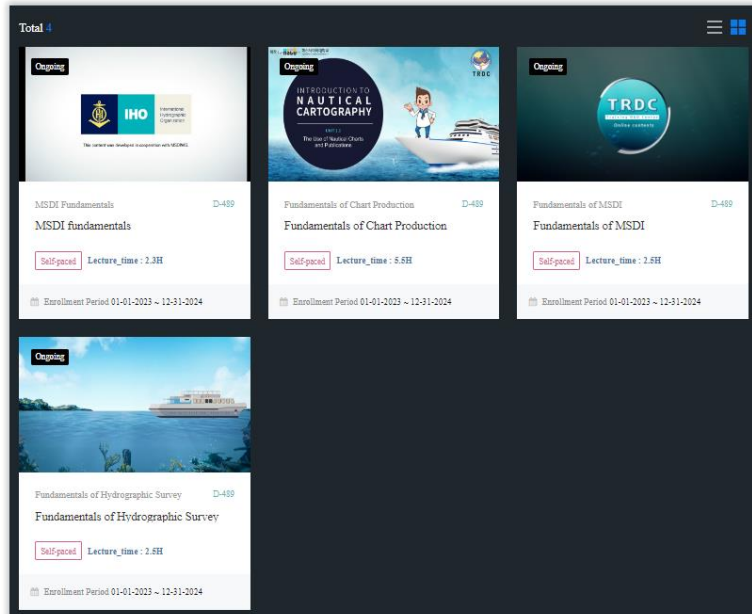
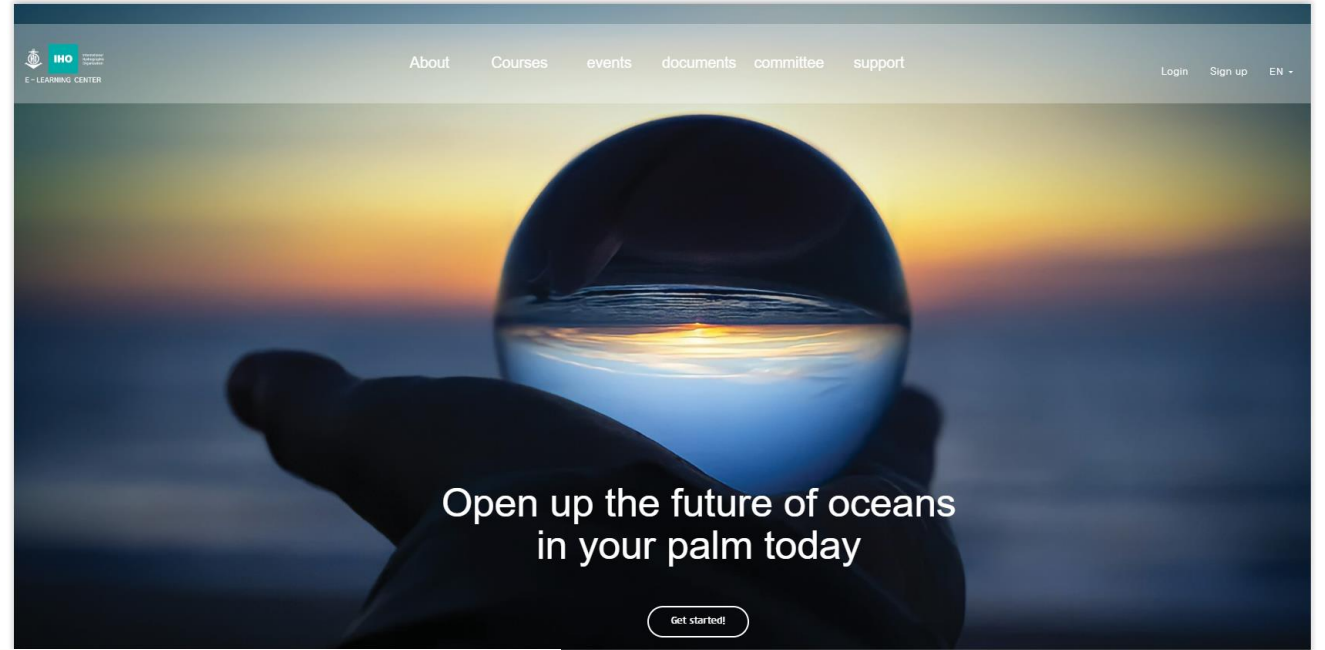


# IHO e-Learning Center

- Established
- Guidelines approved
- Steering Committee created

## 4 e-Learning courses:

- 1 Hydrographic Surveying
- 1 Cartographic Production
- 2 MSDI





# Empowering Women in Hydrography

- The 2nd Session of the IHO Assembly (A-2) approved the Empowering Women in Hydrography (EWH) project to the Work Programme of the IHO CBSC
- The goal is to initiate, organize and track a series of activities and initiatives which will **enable more women to participate equitably in the field of hydrography** and to assume more leadership roles within the hydrographic community.



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# Empowering Women in Hydrography



## UN DECADE OF THE OCEAN

**#14** : *Conserve and sustainably use the oceans, seas, and marine resources*

**#5** : *Gender equality, Ensure women's full and effective participation and equal opportunities for leadership at all levels of decision making in political, economic and public life*



# Thank you

