



## **IHO - NIPPON FOUNDATION ALUMNI SEMINAR 2023**

**London, 25-27 October 2023**

# **IHO CB Work Programme and Strategy and GEOMAC Project importance**

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International  
Hydrographic  
Organization

# Summary

- CB objectives
- CB Work Programme priorities
- CB activities
- Partnerships to share resources and expertise
- Revised CB Strategy
- New initiatives
- IHO - GEOMAC NF - UKHO

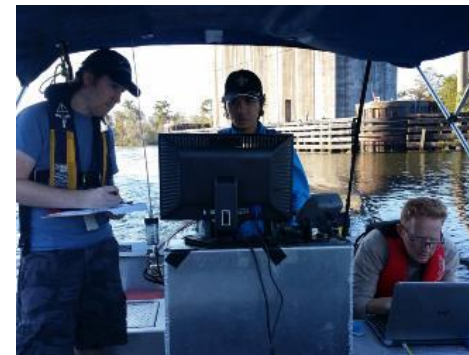


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# CB OBJECTIVE

International  
Hydrographic  
Organization

## 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

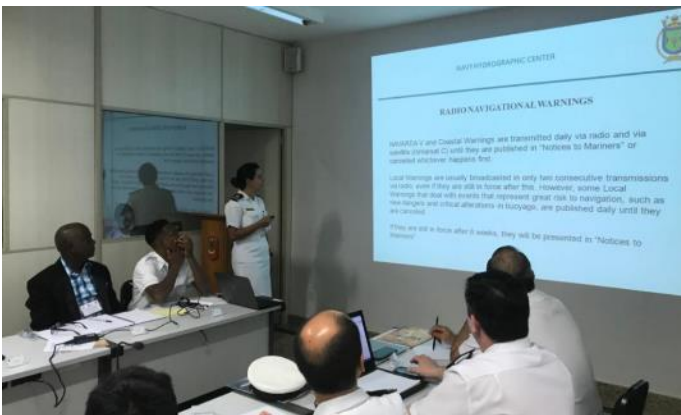
Coastal State/Territory	NH[C]C	Phase 1	Phase 2	Phase 3	Last TV
Albania	1	3	2/3	2/3	2016
Algeria	0	3	4	2/3	-
Bulgaria	1	4	2	3	N/A
Croatia	1	4	4	4	N/A
Cyprus	2	2	3	2	1999
Egypt	0	4	4	2/3	-
France	2	4	4	4	N/A
Georgia	2	2	2	2	2018
Greece	1	4	4	4	N/A
Israel	1	4	2	2	2014
Italy	2	4	4	4	N/A
Lebanon	1	1	1/3	1/3	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



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# CB PHASES

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Hydrographic  
Organization



## 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



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# CB LONG TERM OBJECTIVES

International  
Hydrographic  
Organization

- 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.







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# PRIORITY SETTINGS

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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.





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# CBSC ACTIVITIES

INTERNATIONAL HYDROGRAPHIC ORGANIZATION  
Adopted 2021 CBWP

International  
Hydrographic  
Organization

## Broad variety of activities:

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

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

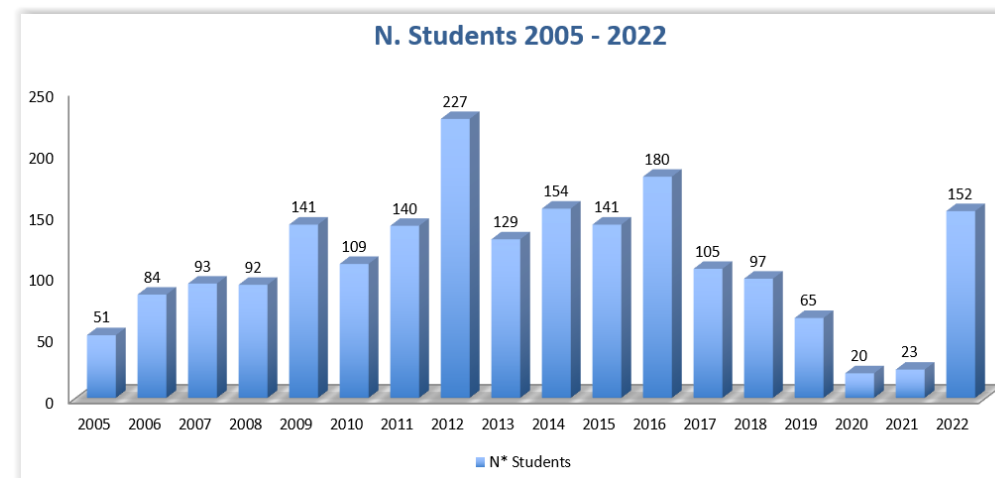
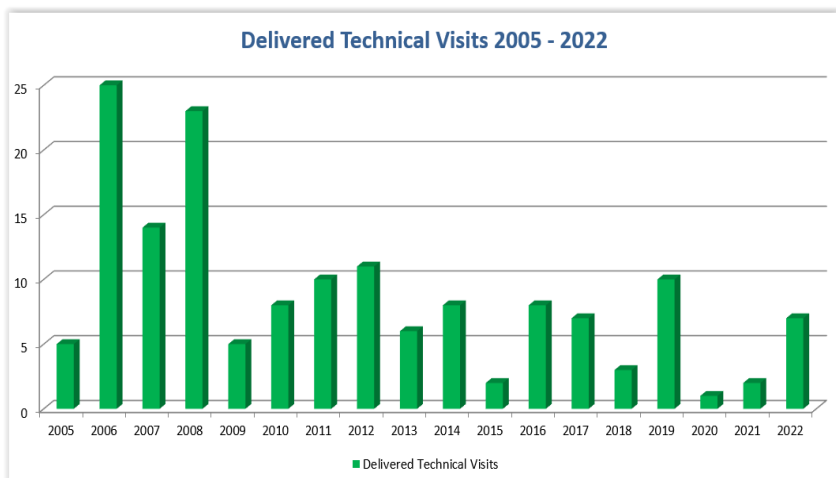
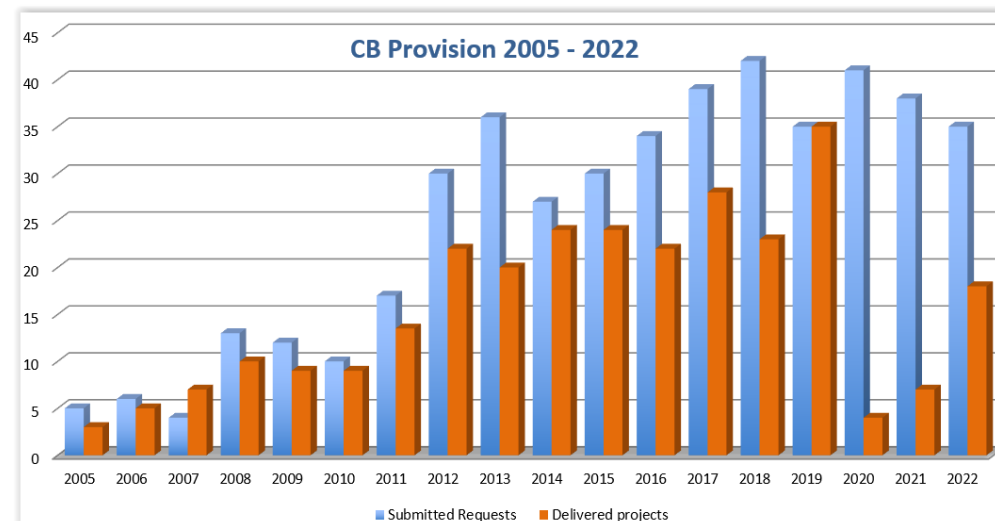
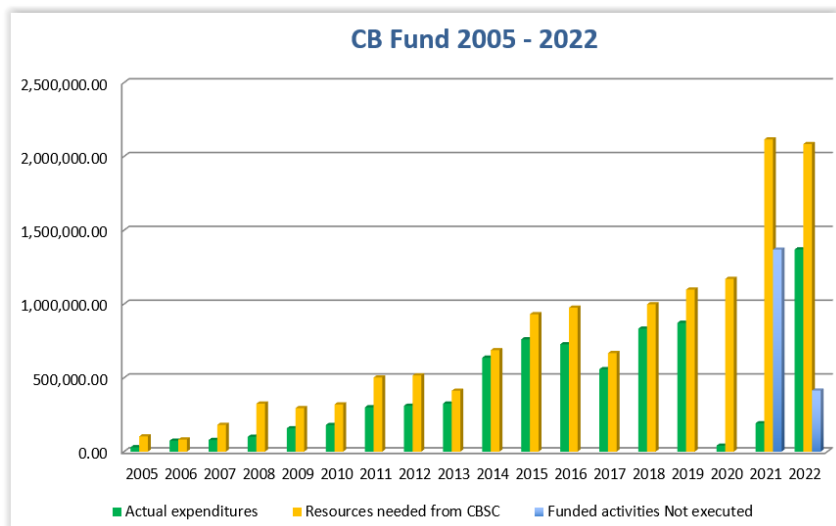




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# CBSC ACTIVITIES

International Hydrographic Organization







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# TYPICAL FUNDED ACTIVITIES

International Hydrographic Organization

## Source of Funds

## Phases

## Some examples of activities

Non earmarked:

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ROK

Other MS

Earmarked:

ROK

Nippon F.

Phase 0

Phase 1

Phase 2

Phase 3

Training

Workshops

Seminars

etc

High level visits

Technical visits

MSI Courses

Seminars

Workshops

ROK Hydrography Cat A - USM

ROK Hydrography /Nautical Cartography Cat B course

ROK TFT courses Hydro/Carto

**Nippon Foundation**

**GeoMAC course - UKHO**



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# PARTNERSHIPS

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# IHO IHO E-LEARNING CENTER

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- 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





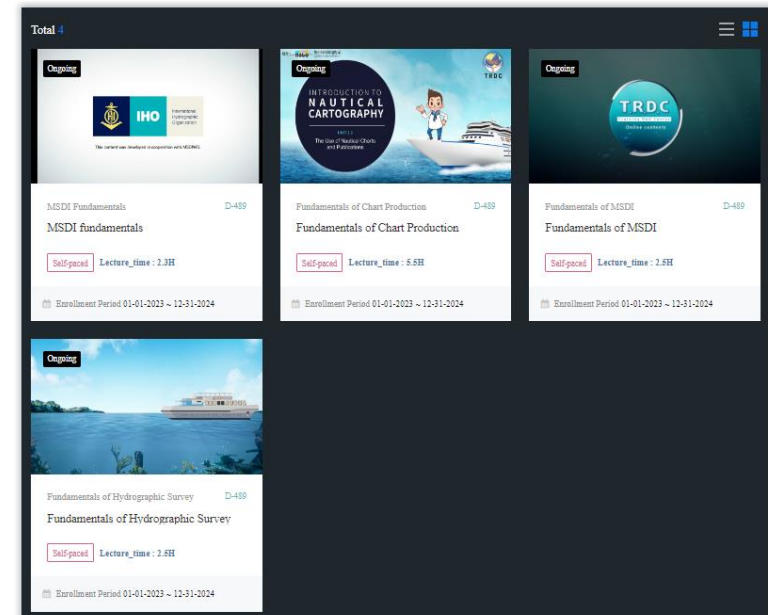
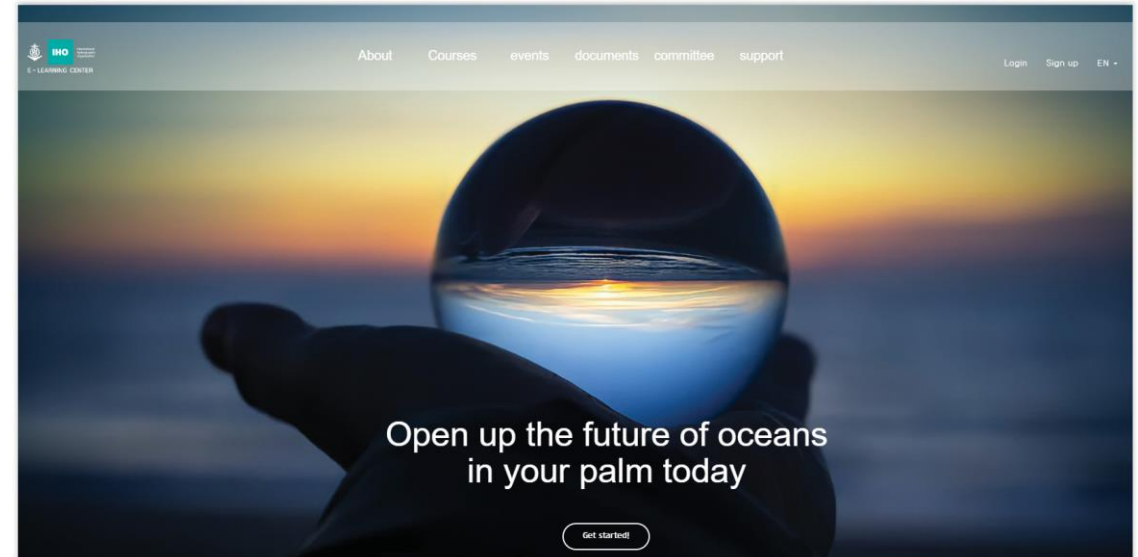
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- Established
- Guidelines approved
- Steering Committee created

## 4 e-Learning courses:

- 1 Hydrographic Surveying
- 1 Cartographic Production
- 2 MSDI





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# EMPOWERING WOMEN IN HYDROGRAPHY

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- The 2nd Session of the IHO Assembly (A-2) approved the adoption of a new work item of Empowering Women in Hydrography (EWH) 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*



The 7<sup>th</sup> Meeting of the IHO **Council** agreed to continue with the EWH project supported by remaining funds and future financial and / or in-kind support as currently announced by **CA, NO, DK, US**





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# IHO – 15 NF GEOMAC COURSES



International Hydrographic Organization

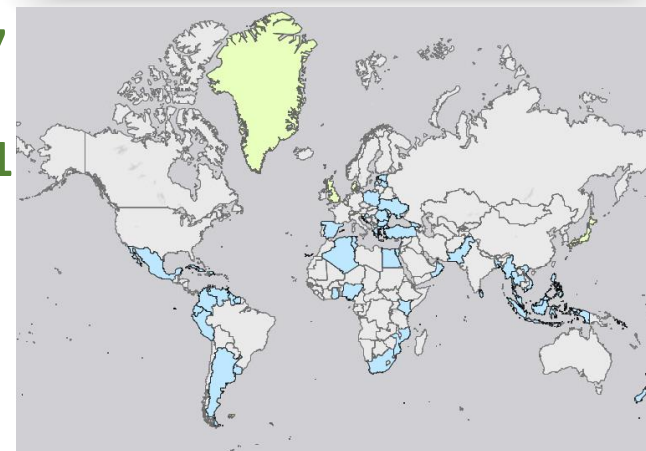
More than 90% work in Nautical Cartography

RHC	Country	total	
RHC	Estonia	2	5
	BSHC	Latvia	
	Poland	1	
EAHC	Brunei Darussalam	1	25
	Indonesia	5	
	Malaysia	5	
	Philippines	5	
	Thailand	5	
	Vietnam	4	
EAtHC	Ghana	1	4
	Nigeria	2	
	Spain	1	
MACHC	Colombia	3	11
	Cuba	1	
	Dominican Republic	1	
	Guyana	1	
	Mexico	1	
	Suriname	1	
	Trinidad and Tobago	2	
	Venezuela	1	
MBSHC	Algeria	3	17
	Bulgaria	1	
	Croatia	1	
	Egypt	1	
	Georgia	1	
	Greece	2	
	Lebanon	1	
	Malta	1	
	Montenegro	1	
	Romania	1	
	Tunisia	1	
	Türkiyey	1	
	Ukraine	2	

Students: 92+7

Countries: 49+1

RHCs: 11



NIOHC	Bangladesh	3	10
	Myanmar	2	
	Pakistan	3	
	Sri Lanka	2	
RSAHC	Oman	2	2
SAIHC	Kenya	1	4
	Mozambique	1	
	Seychelles	1	
SEPHC	South Africa	1	4
	Ecuador	2	
SWAtHC	Peru	2	4
	Argentina	1	
SWPHC	Uruguay	3	6
	Fiji	3	
	New Zealand	2	
	Solomon Islands	1	
		92	92



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# **IHO – 15 NF GEOMAC COURSES**





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- Chile (Mr David FUENTES),**
- Ecuador (Ms Diana YANEZ),**
- Indonesia (Mr Wahyudi MARDASIN),**
- Jamaica (Ms Shari BOWEN-ROBINSON),**
- Kenya (Mr Anthony WAIYEGO),**
- Romania (Ms Eva NECULAE),**
- Uruguay (Mr Mathias COCCARO)**



# Thank you

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 International Hydrographic Organization