

# South West Atlantic Hydrographic Commission (SWAtHC) Report to CBSC22 Intersessional Meeting



**Argentina**

**Brazil**

**Uruguay**

**Paraguay (Associate)**

**Bolivia (Observer)**

By Capt. (Ret.) Cesar Reinert  
On behalf of Capt. (Ret.) Carvalho

Directorate of Hydrography and Navigation - Brazil



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**CBSC22 Int VTC, 7 February 2024**



# Assessment of Capacity Building Phase Stage

Members	NHC or NHCC	CB Phase 1	CB Phase 2	CB Phase 3	Last TV
Argentina	2	4	4	4	N/R
Brazil	2	4	4	4	N/R
Uruguay	2	4	4	4	N/R
Paraguay (Associate)	1	2	2	1	2014
Bolivia (Observer)	0	0	3	2	2023

# Report on the activities carried out in the year 2023

## *IHO-SINGAPORE LAB WORKSHOP ON S-57 TO S-101 6 – 10, November 2023*



Three (3) representatives from SWAtHC participated (Argentina, Brazil and Uruguay).



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# Report on the activities carried out in the year 2023

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## *IHO-SINGAPORE LAB WORKSHOP ON S-57 TO S-101*



The representative from Brazil promoted a great training at DHN, sharing the knowledge learned.



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# Report on the activities carried out in the year 2023

## *MACHC - TIDES TRAINING COURSE*

November 13 - 17, 2023 (Quepos, Costa Rica)



Three (3) representatives from SWAtHC participated (Argentina, Brazil and Uruguay).  
Many thanks for the kind invitation.



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# Report on the activities carried out in the year 2022

## *MACHC - TIDES TRAINING COURSE*

November 13 - 17, 2023 (Quepos, Costa Rica)



Commander, MSc, Cesar Henrique Borba, from BRAZIL-DHN, was one of the instructors.



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# Report on the activities carried out in the year 2023

International Hydrographic Organization - **Map the Gaps Symposium**  
**GEBCO - Seabed 2030 Project - CrowdSourced Bathymetry**  
Nov 6-8, 2023 - Oceanographic Museum of Monaco



Eighteen (18) attendees from SWAtHC



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# Report on the activities carried out in the year 2023

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The "Directorate of Hydrography and Navigation - DHN", through the "Educational and Training Center Almirante Radler de Aquino" (CIAARA), carried out on September, 4th, a Hybrid Symposium on “Maneuver and Navigation: teaching in a lab simulated environment”



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# Report to CBSC22 - Int

## Activities planned for 2024

Nr.	Event	Budget	Status/Led by	Resources
P-09	Seminar on Raising Awareness in Hydrography	4,520 €	SHN Argentina	IHO - funded
P-xx	MBES Data Processing Course	16,100 €	SOHMA - Uruguay	IHO – not funded yet
P-xx	Basic ENC S-100 production Course	37,026 €	SHN - Argentina	IHO – not funded yet
P-xx	MSDI and data assessment Course	16,500 €	DHN - Brazil	IHO – not funded yet

- SWAtHC intend to invite 2 representatives from MACHC and SEPRHC to participate in the courses, in the case they will be approved for 2024.



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# Report to CBSC22 - Int

## Activities planned for 2025

Nr.	Event	Budget	Status/Led by	Resources
P-xx	Data management course for ENC S-100 production (5 days)	To be estimated	DHN - Brazil	IHO
P-xx	MBES Acquisition and Processing Survey Course (5 days)	To be estimated	SHN - Argentina	IHO
P-xx	Tides and Water Level Workshop (5 days)	To be estimated	SOHMA – Uruguay	IHO



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# Challenges faced in the region

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- The implementation of the S-100 is a goal that SWAtHC members are constantly striving to achieve.
- Hydrographic data acquisition and processing activities with new technologies require effective data management and a large storage. Therefore, it has been necessary to invest in training related to information technology, such as MSDI and “big data”.
- Another challenge is to encourage Paraguay and Bolivia to join the SWAtHC as full members following their accession to the IHO.



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# Conclusions

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The continuity of the Capacity Building (CB) program in Hydrography is an important strategic issue for all countries, because it promotes technical development, disseminates knowledge related to the state of the art in hydrography and encourages the integration of professionals from different Hydrographic Services.

The members of our Hydrographic Commission, as well as others, should join forces and optimize resources.



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# Action Required of CBSC21

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The CBSC is invited to:

- a. Note this report.
- b. Take any action considered appropriate

**OBRIGADO!**

Cesar Reinert

Captain (Ret.)

Advisor on IHO Affairs at DHN-Brazil

[reinert@marinha.mil.br](mailto:reinert@marinha.mil.br)

Tel.: +55 21 2189 3032/ Mobile: +55 21 99907 7990



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