

**15th MEETING OF THE IHO CAPACITY BUILDING SUB-COMMITTEE
IHO-CBSC15
Paramaribo, Suriname, 7-9 June 2017**

Paper for the Consideration by CBSC15

South West Atlantic Hydrographic Commission (SWAtHC) Report

Submitted by:	SWAtHC CB Coordinator
Executive Summary:	This document provides a summary report of the CB activities at SWAtHC.
Related Documents:	SWAtHC CB Plan 2015-2019 and CB Work Plan 3 years 2018-2020
Related Projects:	xxx

1. Introduction / Background

On 16th November 2006, Argentine, Brazil and Uruguay signed the cooperation agreement that result in the South West Atlantic Hydrographic Commission (SWAtHC). Main achievements have been the development of a regional Cartographic Plan, establishment of a Planning Commission to coordinate INT Charts and ENC production and the acceptance of Bolivia and Paraguay as Observer and Associate Members. The end result is that the region has no significant overlaps, no unassessed CATZOCs and gaps are being addressed.

The new CB Work Plan (2018-2020) is based on the assessment of the phase of development of each of the coastal State within the SWAtHC region in accordance with the IHO CB Strategy and arranging training activity to build the necessary capability to meet SOLAS Convention obligations and IHO Standards and Resolutions.

2. Assessment of Capacity Building Phase Stage of Coastal States

Members	NHC or NHCC	CB Phase 1	CB Phase 2	CB Phase 3	Last TV
Argentina	2	4	4	4	N/A
Brazil	2	4	4	4	N/A
Uruguay	2	4	4	4	N/A
Paraguay (Associated)	2	2	2	1	2014
Bolivia (Observer)	2	2	2	1	N/A

3. Activities completed since CBSC14

SWAtHC attended two events on the second semester of 2016:

- Multibeam training course (Practice on data acquisition and processing), in Buenos Aires, Argentina, 12 – 17 September, for the following States: Argentina, Brazil, Uruguay, Colombia, Chile, Paraguay and Ecuador.
- Tide Training Course, in Niterói, Brazil, 03 – 07 October, for the following States: Argentina, Brazil, Uruguay, Colombia, Paraguay and Cuba.

In 2016, SWAtHC members were invited to participate:

- in the MACHC's Workshop on MSDI & Data Management which was delivered in Veracruz, Mexico, in October 2016; and

- in the SEPRHC's Training on Multibeam Data Processing which was delivered in Cartagena de Indias, Colombia, in August 2016.

The SWAtHC acknowledges the efforts of the MACHC and the SEPRHC to coordinate joint CB activities across the three regions.

4. Activities planned for 2017 and 2018

SWAtHC will perform three events on the second semester of 2017:

- Bathymetry training course using RTK technology. Brazil, DHN.
- Digital Photogrammetry with satellite images. Argentina, SHN.
- Data Management Workshop. Uruguay, SOHMA.

SWAtHC submitted to CBSC three events to be delivered in 2018:

- MSI Workshop. Brazil, DHN.
- Port and Shallow Water Survey Course. Argentina, SHN.
- MSDI and Data Management Workshop. Uruguay, SOHMA.

5. Challenges faced in the region

The main challenge to face in the region is to encourage Paraguay and Bolivia to join the SWAtHC as full members following their accession to the IHO. During SWAtHC last meeting (March, 2017), Bolivia showed interest to integrate the SWAtHC as Associate Member.

6. Achievements and lessons learned

All activities conducted in recent years improve the practical and theoretical skills developed by Latin America hydrographers and nautical cartographers in performing hydrographic activities.

The Tide Training Course that was delivered in DHN, Brazil, provided the opportunity to the Regional Hydrographic Community to discuss issues related to tide and water levels, contributing to increase the Latin American capacity on tide analysis, data acquiring and processing. All the objectives were met and the overall assessment of the course, made by the analysis of the participants' feedback, recorded the score of 90% of answers rated at Very Good or Excellent. The IHO provided a high quality material related to tide and water levels to assist this course. The content is complete and didactic, contributing in a relevant manner to student learning. This material was prepared by Mrs. Ruth Farre, from South African Navy Hydrographic Office, on behalf of the TWLWG.

In regarding of the multibeam training course on data acquisition and processing that was delivered in SHN, Argentina, the course caught the participant's attention in multibeam technologies, especially related to obtaining of a continuous record of the seabed and a faster and more efficient processing. In addition, this course permitted exchanging experiences among participants from different countries. The evaluation of the participants was 90% positive rating.

Training of Foreign Countries Personnel:

- at DHN (Brazilian Funding): two Namibia Personnel (Specialized Course on Hydrography for Sailors); and
- at SHN (Argentinean Funding): one Officer from Panamá (Course in Hydrography, recognized by IBSC as Cat. "B").

7. Conclusions

SWAtHC is committed to carrying out forward hydrographic, cartographic and capacity building activities in a strait alignment with IHO objectives and goals.

8. Action Required of CBSC14

The CBSC is invited to:

- a. Note this report.
- b. The SWAtHC is proposing three events to be delivered in 2018 and requires approval.

Annex: Assessment of Capacity Building Phase Stage of Coastal States (Excel file)