CBSC17-05.1M

17th MEETING OF THE IHO CAPACITY BUILDING SUB-COMMITTEE IHO-CBSC17 Genoa, Italy, 29 - 31 May 2019

Paper for the Consideration by CBSC17

South West Atlantic Hydrographic Commission (SWAtHC) Report

Submitted by:	SWAtHC CB Coordinator
Executive	This document provides a summary report of the CB activities at
Summary:	SWAtHC.
Related	SWAtHC CB Work Plan 3 years 2019-2021.
Documents:	SWAILE CD WORF Fall 5 years 2019-2021.
Related Projects:	XXX

1. Introduction / Background

On 16th November 2006, Argentina, Brazil and Uruguay signed the cooperation agreement that resulted in the South West Atlantic Hydrographic Commission (SWAtHC). The 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 Paraguay and Bolivia as Associate Members and Observer, respectively. The high level of harmonisation between all members results in a region without overlaps in ENCs, nor unassessed CATZOCs and gaps being addressed.

Bolivia is in the process of becoming an associate member.

The new CB Work Plan (2019-2021) 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.

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

2. Assessment of Capacity Building Phase Stage of Coastal States

* : SWAtCH is proposing to the CBSC to carry out a Technical Visit to Bolivia in 2020.

KEY

1. The numerical grid below describes the status of the National Hydrographic Committee (NHC)/National Hydrographic Coordination Committee (NHCC):

Value	Assessment
-1	No information available.

0	The country does not have a NHC/NHCC.	
1	The country is in the process of establishing a NHC/NHCC.	
2	The country has established a NHC/NHCC.	

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2. The numerical grid below applies to the Phases:

Value	Assessment
-1	No information available.
0	The country is unaware of its national obligations 1.
1	The county is aware of its national obligations but does not have the means to do it.
2	The country has the ability to fulfill national obligations.
3	The country fulfills its national obligations through a third party.
4	The country fulfills its national obligations in a sustainable manner.

Note: the assessment represented by 3 is an alternative to 4 as explained in the IHO's Capacity Building Strategy.

3. Those coastal states with a mature hydrographic service and consequently don't require a technical visit are marked as N/R (not required).

Technical Visit reference: https://www.iho.int/mtg_docs/CB/Assessment_Reports.htm

3. Completed Activities since CBSC16

In 2018, the following events were funded by the CBSC and carried out in CHAtSO:

 Maritime Safety Information (MSI) Training Course, from 16 to 18 October 2018. The Course was performed at DHN-Brazil and it was conducted by instructors from USA National Geospatial-Intelligence Agency (NGA) with the participation of 18 representatives from Brazil (6), Argentina (2), Uruguay, Paraguay, Bolivia, Colombia, El Salvador, Guyana, Venezuela, Ecuador, Peru and Liberia.

• Port and Shallow Waters Survey Course, from 24 to 28 September 2018, at SHN-Argentina. The workshop was performed by specialized personnel from Teledyne CARIS and was attended by 31 representatives from Argentina, Brazil, Uruguay and Venezuela.

The MSDI and Data Management Workshop, which would be performed at SOHMA-Uruguay, was not funded by the CBSC and therefore did not happen.

In 2018, SWAtHC members were invited to participate:

- in the SEPRHC's Workshop on LIDAR technology and methodology for shallow waters and coastline hydrographic surveys which was led by INOCAR, at Guayaquil – Ecuador, from 22 to 26 October 2018.

- in the MACHC's MBES Processing Workshop, at Cartagena – Colombia, from 10 to 14 December 2018.

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

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From 28 to 31 January, 2019, DHN – Brazil performed the 1st Workshop on MBES Processing in Caris Hips & Sips, conducted by the hydrographic officers who attended this same training at Argentina in 2018. The Workshop was directed to the other hydrographers of the DHN's vessels in order to promote the dissemination of the knowledge received in the event sponsored by the CBSC-IHO.

4. Planned Activities for 2019 and 2020

SWAtCH has proposed the following events for 2019 with their respective priorities within the Capacity Building Work Plan:

- Multibeam data processing and bathymetry database Worshop (SHN-Argentina) P-19;
- Tide Training (DHN-Brazil) P-21; and
- Multibeam Systems Total Uncertainty Workshop (SOHMA–Uruguay) P-24.

At the moment, only the SHN workshop was approved for CBSC financial support.

For 2020, SWAtHC submitted to CBSC the following events:

- Bolivia Technical Visit (4 days) Brazil (Priority 1);
- Seminar on Raising Awareness of Hydrography (2 days) Brazil (Priority 2);
- MSI Course (3 days) Argentina (Priority 3);
- Seabed Classification Workshop (5 days) Brazil (Priority 4); and
- ENC Production and QA (5 days) Uruguay (Priority 5).

During the 13th SWAtHC meeting, at Buenos Aires, the Director of the Bolivian National Hydrographic Service (*Servicio Nacional de Hidrografia Naval* – SNHN) requested a Technical Visit to the SNHN in order to be advised on hydrographic and safety of navigation aspects.

5. Challenges faced in the region

One of the major challenges to be faced 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 (April, 2019), the full members approved the request from the SNHN Director, and initiated the accession process of Bolivia as an Associate Member of SWAtHC. SNHN shall address the approved request to its national authorities. The implementation of the S-100 is another challenge that must be addressed.

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 Maritime Safety Information (MSI) Training Course, performed at DHN-Brazil, provided the opportunity for representatives of Regional Hydrographic Communities to gain insight into the importance of the MSI and how to act to report certain events preventing a significant impact on the safety of navigation in coastal region. The training course provided a practical guidance for drafting navigational warnings, explaining and demonstrating how the SafetyNET and NAVTEX services work together in order to increase the availability of MSI in the South West Atlantic Hydrographic Commission, as well as in the others Latin

American hydrographic commissions areas. Also, in order to publicize the importance of the subject as well as to disseminate the Capacity Building training program available to IHO members, it was possible to register representatives of MACHC, SEPRHC and Liberia. All the objectives were met and the overall assessment of the course, made by the analysis of the participants' feedback, recorded the score of 100% of answers was rated at Very Good or Excellent.

In regarding the Port and Shallow Waters Survey Course, performed at SHN-Argentina, some changes from the initial program had to be made due to the fact that the multibeam equipment that the Kongsberg company would bring to the practice did not arrive in time. Therefore, the program was modified with training onboard software and acquisition of Kongsberg system in cabinet. Despite these changes, it was possible to take full advantage of the workshop and training the participants in the management of multibeam data acquisition and processing. The exchange of knowledge and experiences among the participants from different countries of the SWAtHC was quite successful. All SWAtHC full members attended to the training. Both MACHC and SEPRHC were invited to send a representative but only the last (Venezuela) participated. According to the participants, there was an 80% positive evaluation.

Training of Foreign Countries Personnel:

- at DHN (Brazilian financing), in 2018, one Bolivian Officer concluded the Advanced Training Course in Hydrography for Officers (CAHO), course recognized by IHO as Cat "A"; and

- at DHN (Brazilian financing), in 2019, there is another Bolivian officer performing the CAHO.

7. Conclusions

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

The two training sessions carried out within SWAtHC, as well as those which we were invited to send representatives to other HCs, proved to be very important in improving our people's technical knowledge, increasing the awareness of our national hydrographic obligations.

8. Action Required of CBSC17

The CBSC is invited to:

- a. Note this report.
- b. The SWAtHC is proposing five events to be performed in 2020 and requires approval.

Captain (Ret.) LUIZ CLAUDIO Monteiro da Fonseca SWAtHC Capacity Building Coordinator

International Hydrographic Organization Assessment of Capacity Building Phase Stage of Coastal States

Ν.	Coastal State/Territory	NHC/NHCC	Phase 1	Phase 2	Phase 3	Last TV
1	Afghanistan					
	Albania					
3	Algeria					
	Andorra					
5	Angola					
	Antigua and Barbuda					
	Argentina	0	4	4	4	N/A
	Armenia					
9	Australia					
10	Austria					
11	Azerbaijan					
12	Bahamas					
13	Bahrain					
14	Bangladesh					
	Barbados					
16	Belarus					
17	Belgium					
18	Belize					
19	Benin					
20	Bhutan					
21	Bolivia (Plurinational State of)	0	2	2	1	
22	Bosnia and Herzegovina					
23	Botswana					
24	Brazil	0	4	4	4	N/A
25	Brunei Darussalam					
26	Bulgaria					
27	Burkina Faso					
28	Burundi					
	Cabo Verde					
	Cambodia					
	Cameroon					
	Canada					
	Central African Republic					
	Chad					
	Chile					
	China					
	Colombia					
	Comoros					
	Congo					
	Cook Islands					
	Costa Rica					
	Côte d'Ivoire					
	Croatia					
	Cuba					
45	Cyprus					
46	Czech Republic					

47	Democratic People's Rep. of Korea			
	Democratic Republic of the Congo			
	Denmark			
50	Djibouti			
	Dominica			
	Dominican Republic			
	Ecuador			
	Egypt			
	El Salvador			
	Equatorial Guinea			
	Eritrea			
	Estonia			
	Ethiopia			
	Fiji			
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	Greece			
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	Guinea-Bissau			
	Guyana			
	Haiti			
	Holy See			
	Honduras			
	Hungary			
	Iceland			
	India			
	Indonesia			
	Iran (Islamic Republic of)			
	Iraq			
	Ireland			
	Israel			
	Italy			
	Jamaica			
	Japan			
	Jordan			
	Kazakhstan			
	Kenya			
	Kiribati			
	Kuwait			
	Kyrgyzstan			
	Lao People's Democratic Republic			
	Latvia			
96	Lebanon			

97	Lesotho					
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