INFORME CBSC-13

CF PAULO – DHN/BRASIL

CBSC-13 REPORT

- The meeting was held in Mexico City, from 27-29th May 2015, and was chaired by Mr. Thomas Dehling, Chair of the Capacity Building Sub-Committee (CBSC).
- The Chair reported on the activities since the last meeting, in particular the revision of the IHO CB Strategy, the outcomes of the EIHC5 with the CB Panel and the work done by the IHB, in particular the CB Assistant and the need for additional resources. He also reported on the work and contributions of the CB Coordinators, the contributions from ROK and Japan/Nippon Foundation, the Joint CB Group and developments and improvement of the CBSC work.

CBSC-13 REPORT

- The report from CHAtSO was presented.
- Brazil (CHAtSO) reported the events done in the region and the near future plans. Also reported the increasing number of foreign students attending hydrographic and cartographic trainings in the region, the majority as an in-kind contribution to developing nations.
- Mexican Hydrographic Project – FOCAHIMECA → Decision 14 of CBSC agreed that SEPRHC and SWAtHC should submit projects as necessary according to the CB Procedures in order to get South American countries to participate in the training projects in FOCAHIMECA in 2016 and 2017.

CBSC-13 REPORT

- CB Strategy was revised → training opportunities for Phases 2 and 3 (like the Category A and Category B programmes) are now limited to the IHO Member States only. Non-Member States can only access trainings for Phase 1 (Maritime Safety Information) and receive Technical and High-level Visits.
- CB Management System update and Performance Indicators + Statistics presented.

CBSC-13 REPORT

- From now on → CB activities in 2016:

IHO WP Element: Capacity Building Provision - Technical Workshops, Seminars, Courses					
No.	Events	Responsible	Budget	Status	Resources
P-10	Tide Training Course	SWAtHC	16,400.00 €	Led by Dates	IHO
P-16	Multi-beam Training Course	SWAtHC	25,000.00 €	Led by Dates	IHO

  - P-10 → Uruguay – Place/dates/scheduled activities
  - P-16 → Argentina – Place/dates/scheduled activities

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- From now on → CHAtSO WorkPlan (6 years, year A = 2016)

CURSO / AÑO	A	A+1	A+2	A+3	A+4	A+5
Batimetría con multihaz	X			X		
Batimetría con RTK		X				
Sonar de barrido lateral			X			
Fotogrametría Digital con imágenes satelitales		X				
Administración de datos digitales provenientes de diferentes campañas		X			X	
Estaciones maregráficas / Marea	X			X		
Nuevas tecnologías						X
Empleo e interpretación de datos colectados con magnetómetro marino					X	
Empleo e interpretación de datos colectados con perfilador sísmico (SBP)					X	
Marine Spatial Data Infracstruture (MSDI)			X			X

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- From now on → Proposals for 2017. Deadline has passed (31MAR), but contact was done with CBSC and new deadline is 15APR:
  - Batimetria con RTK →
  - Fotogrametria Digital com Imágenes Satelitales →
  - Administración de datos digitales provenientes de diferentes campañas →
- Proposals to be sent to: carvalho@dhn.mar.mil.br with copy to nickolas@dhn.mar.mil.br and paulo@chm.mar.mil.br.

CBSC-13 REPORT

PART 2

SUBMISSION MODEL

IDENTIFICATION

Project Number: 01/2015

Project Name:	Multibeam training course Practice on Data acquisition and processing
Submitting RHC/Country:	SWAtlHC / Argentina
Date:	SECOND SEMESTER 2016
Institution executing the project:	Servicio de Hidrografía Naval (SHN) Escuela de Ciencias del Mar (ESCM)
Name of responsible:	VIVIANA NOEMI BELTRAN (Cmdr) HIDROGRAFIC DEPARTMENT (SHN)
Address:	Av. Montes de Oca 2124, Ciudad Autónoma de Buenos Aires (CP 1271) REPÚBLICA ARGENTINA
Telephone:	+54-11-4301-0061 / 7 - Interno 4042 (Office)
WEB:	www.hidro.gov.ar
e-mail:	beltran@hidro.gov.ar

GENERAL SPECIFICATIONS

(Please provide detailed information in Annex of no more than three pages)

Background information	On the 9th meeting of the SWAtlHC, was decided to propose to CBC, in 2015, the necessary training courses to improve the regional skills on acquisition and processing of multibeam data. The final approval to this bid will be decided by CBC under the present formal submission.
Justification of the project	The objective of this course is to improve the practical and theoretical skills of Hydrographic Offices in Latin America with the acquisition and processing of multibeam data. The training course will take place at the Faculty of Marine Sciences coinciding with the CAT B Hydrographic Course and will be conducted at the same institution. The practice area will be held in Río de la Plata, near Buenos Aires Port, on river boats provided by the NHS.
Countries involved	Brazil, Argentina and Uruguay are the main participants to be supported by CBC funds. After a detailed study of costs, SWAtlHC would like to suggest CBC to expand the invitation to Paraguay and Bolivia as well as the other two Latin American Hydrographic Commissions, MACHC and SEPHC. In addition, the course would be opened to any other public or private Hydrographic organization that decides to send its participants.
Exposition of the problem	The ENC production needs to be concerned about issues like horizontal and vertical consistency of the bathymetric data inside the Hydrographic Database. The horizontal consistency may be visualized by the different positions that the same object, present in two adjacent Swaths of a MB survey lines. The vertical problem, the same object may be represented in different depths, or maybe in different shapes (a point, a line or an area depending on the scale), but this object must have the same coordinate for its centroid. The solution for both problems is possible by mitigating errors during the installation, calibrations, data acquiring process as well on applying exp.and tide corrections. A better bathymetric data quality leads to a more reliable database, which will improve consistency, quality and velocity of ENC and paper chart products.
General objective	To increase the Latin American capacity to properly acquire and process Multibeam data.
Specific objectives	1) To provide the opportunity for participants to exchange experiences, which is useful to solve common problems. 2) To offer the workshop in Latin America to stimulate its countries to participate. 3) To provide a forum to discuss the needs in order to improve the quality of surveys with MB.
Outputs/Products	More qualified hydrographers to use Nautical Charts database production systems within the South American region.
Other deliverables	Build a net of regional users to solve common spatial database issues.
Achievements and awaited benefits	The more qualified hydrographers would benefit the final accuracy of ENC production. The main purpose is to meet the IHO-S-44 standards on bathymetric data and consequently enhance the Nautical Charts quality.

Schedule of activities	The Servicio de Hidrografía Naval (SHN) and Escuela de Ciencias del Mar (ESCM) have already made some informal contacts to organizers team to learn about their experience. It was suggested to give more emphasis on practical lectures. Argentina intents to follow the lectures as described below:

First day	– Preparation of a survey and the integration of different sensors of the vessel.
Second Day Morning	– Equipment installation and Off Sets.
Afternoon	– Data Acquisition Tools
Third Day Morning	– Theory of multibeam systems Calibration
Afternoon	– Field trips to upstrings in the Río de la Plata. *(Patch Test).
Fourth Day Morning	– Field trips to upstrings in the Río de la Plata. *(Data acquisition).
Afternoon	– Practical exercises MB bathymetric data processing.

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	A	B	C	D
1	**IHO Procedure 4 - Project Evaluation**			
2	SWAtHC Project Number : 01/2015			
3	**IDENTIFICATION**			
4	**Project N.**	**Secretary**		
5	**Project Name:**	**Multibeam training course Practice on Data acquisition and processing**		
6	**Submitting RHC:**	**SWAtHC / Argentina**		
7	**Date of Submission:**	**SECOND SEMESTER 2016**		
8	**Institution executing the project:**	**Servicio de Hidrografía Naval (SHN) Escuela de Ciencias del Mar (ESCM)**		
9	**Name of responsible:**	**VIVIANA NOEMI BELTRAN (Cmdr) HIDROGRAFIC DEPARTMENT (SHN)**		
10	**Address:**	**Av. Montes de Oca 2124, Ciudad Autónoma de Buenos Aires (CP 1271), REPÚBLICA ARGENTINA**		
11	**Telephone:**	**0054-11-4301-0061 / 7 Interno 4042**		
12	**WEB:**	www.hidro.gov.ar		
13	**e-mail:**	beltran@hidro.gov.ar		
14				
15	**EVALUATION**			
16	**Description**	Maximum	Item value	Assigned value
17	**1. Category of the Project**			
18	a) Technical Assistance	5	5	
19	b) Training Education		3	3
20	c) Start Up Project		3	
21	d) Financial Assistance		2	
22	**2. Phase of Capacity Building**			
23	a) Phase 1		10	

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Next meetings: CBSC14 → 24-26MAY - Abu Dhabi (UAE) / CBSC15 → Suriname / CBSC16 → Goa (India) (all back-to-back with IRCC).