

**14th MEETING OF THE IHO CAPACITY BUILDING SUB-COMMITTEE
IHO-CBSC14
Abu Dhabi, UAE, 24-26 May 2016**

REPORT

1. Opening remarks, introductions and administration

Docs: [CBSC14-01A](#) *List of Documents (IHB)*
[CBSC14-01B](#) *List of Participants (IHB)*
[CBSC14-01C](#) *CBSC Membership (IHB)*
[CBSC14-01D](#) *ToR and RoP (IHB)*
[CBSC14-01E](#) *ToR for the CB Coordinators (IHB)*

Mr. Thomas Dehling, Chair of the Capacity Building Sub-Committee (CBSC), opened the meeting at 09h00 on 24 May 2016 at the Armed Forces Officers Club and Hotel at Abu Dhabi, United Arab Emirates (UAE) and welcomed the participants. He thanked the hosts for the organization and for the excellent venue. Colonel Khalid Dasmal (UAE) welcomed the participants and wished a good meeting. Director Mustafa Iptes highlighted the evolution of the CB resources and the growth of the CB activities.

Chair highlighted the comeback of Capt. Brian Connon (USA) and LCdr Esref Gunsay (Turkey) as Member and CB Coordinator for the USCHC and MBSHC, respectively. He also welcomed the new Members and CB Coordinators from SWAtHC, and India, Capt. Helber Carvalho and Cdr Amol G Merwade, respectively. Participants introduced themselves for the benefit of the meeting.

Action 1: Secretary to update the Membership and CB Coordinator for the USCHC (Capt. Brian Connon) and India (Cdr Amol G Merwade) (deadline: 10 June 2016).

2. Approval of Agenda

Doc: [CBSC14-02](#) *Agenda and Timetable (IHB)*

The agenda and timetable were reviewed and adopted without amendments.

3. Matters arising from Minutes of CBSC13 Meeting

Docs: [CBSC14-03A](#) *CBSC13 Report (IHB)*
[CBSC14-03B](#) *Status of Action List from CBSC13 (IHB)*

The meeting reviewed the CBSC13 Report and the status of the actions from CBSC13 and was informed that those actions related to the FOCAHIMECA Project (27, 28, 29, 31 and 32) were not executed). Action 40 on the preparation of Procedure 9 was also not done. The reports requested under Action 19 were not received.

Issues related to MSDI were considered in special the need to have a better understanding on the possibilities to create capacities to implement and use MSDI. The meeting was informed on the two documents that will be introduced to IRCC8 by the MSDIWG Chair, the Work Plan and a draft revision of the IHO Publication C-17 *Spatial Data Infrastructures: "The Marine Dimension" - Guidance for Hydrographic Offices.*

Decision 1: to approve the CBSC13 Report (doc. [CBSC14-03A](#)) and the updated List of Actions from CBSC13 (doc. [CBSC14-03B](#)).

Action 2: Secretary to provide the MSDIWG Work Plan 2016-2020 and draft C-17 to the meeting participants (deadline: 30 June 2016).

Action 3: Chair to invite MSDIWG Chair to CBSC15 to present the MSDI (deadline: 15 December 2016).

4. Report by the Chair and the IHB

Docs: CBSC14-04A Report by the Chair (Chair)
CBSC14-04B Report by the IHB (IHB)

Chair introduced his report and highlighted the progress made in the last 12 months on the management of the CBWP and the use of the CB Funds. Chair emphasized that priority is and should be given to those coastal States that need more attention. He mentioned that the funds are limited and the majority of these funds is earmarked, the preparation to the IHC19/1st Assembly, in special the 3-year work plan and the report. The 3-year work plan is a key component for the work in each region. The Chair also stressed that the IHB support is a key element of administration of the CBWP and the fundamental role of the CB Coordinators in assessing the situation in countries in accordance with the Annex of their ToR.

IHB introduced the report and focused on the ongoing activities, the amendments of the IHO Convention, the evolution of the CB activities and the search for funding from agencies and countries.

Decision 2: to note the reports under agenda item 4 (*docs. CBSC14-04A and CBSC14-04B*).

5. Regional Assessment of CB Activities

5.1 Reports of the RHCs

Docs: CBSC14-05.1A MBSHC Report
CBSC14-05.1B EAHC Report
CBSC14-05.1C EAHC Report
CBSC14-05.1D SEPRHC Report
CBSC14-05.1E1 SWPHC Report
CBSC14-05.1E2 SWP Hydrographic Programme
CBSC14-05.1F MACHC Report
CBSC14-05.1G SAIHC Report
CBSC14-05.1H NIOHC Report
CBSC14-05.1I RSAHC Report
CBSC14-05.1J SWAtHC Report

RHC Members and CB Coordinators updated the meeting on the status of C-55, reported on high-level, technical and follow-up visits and the outcomes of courses, workshops and seminars. The following topics were highlighted and considered:

a) MBSHC

MBSHC Member introduced *doc. CBSC14-05.1A* and highlighted the recent developments and the preparation for upcoming technical visits and workshops. Norway informed about the bilateral cooperation with Albania and invited the MBSHC to invite the Albanian Hydrographic Service to participate in courses.

b) EAHC

EAHC Member introduced *doc. CBSC14-05.1B* and informed the meeting on the development of the Training, Research and Development Center (TRDC) and the activities conducted with

the support from the CB Fund.

c) EAthC

EAthC Member introduced *doc. CBSC14-05.1C* and gave an overview of the challenges in the region, in particular in the Western-Central Africa. He informed on the technical visit to Liberia, on the experience with providing MSI training via e-learning and the definition study conducted in the region. He reported that the proposed technical visit to Gambia was done due to the interest of the Ports Authority which sent a formal request to its regional Coordinator.

d) SEPRHC

SEPRHC Representative introduced *doc. CBSC14-05.1D* and presented the ongoing activities under the 2016 CBWP and the submissions to the 2017 CBWP. The meeting discussed the difficulties in dealing with the CB Coordinator from SEPRHC as the person is nominated from the Chair's office and agreed on the action:

Action 4: SEPRHC Representative to request to the SEPRHC to consider having permanent CBSC Member and CB Coordinator (deadline: SEPRHC13).

e) SWPHC

SWPHC Chair introduced *docs. CBSC14-05.1E1* and *CBSC14-05.1E2* and updated the meeting on the developments of the CB activities in the region, including those that are funding by donor agencies or supported by other institutions. He highlighted the progress done in some areas with the development of the Risk Assessment, the implementations of maritime boundaries and the development of national capacity in Vanuatu and Cook Islands.

Decision 3: to note the high level of engagement and capacity building activity being undertaken in the SWPHC region.

f) MACHC

MACHC Member introduced *doc. CBSC14-05.1F* and reported on the numerous activities in the region, some of them across RHCs with SEPRHC and SWAtHC. He informed the meeting on the challenges to execute the technical visit to Haiti and on the FOCAHIMECA Project lead by Mexico, now based on education rather than on data collection with a change of direction.

g) SAIHC

SAIHC Member introduced *doc. CBSC14-05.1G* and reported the activities executed and planned for 2016.

h) NIOHC

NIOHC Member introduced *doc. CBSC14-05.1H* and informed the meeting on the support to Sri Lanka and Bangladesh and other activities in the region, some of them with the support from industry partners.

i) RSAHC

RSAHC Member introduced *doc. CBSC14-05.1I* and reported the trainings on multi-beam and on tides and water level held in Abu Dhabi, and the planned ENC Production also to be held in Abu Dhabi later in 2016.

Decision 4: to note the increasing level of engagement in capacity building being undertaken in the United Arab Emirates (UAE).

j) SWAtHC

SWAtHC Member introduced *doc. CBSC14-05.1I* and reported on the CB activities executed in and planned for the region. Brazil informed the meeting the approval of grants (accommodation, meals and education fees) for up to ten foreign students to attend Category A and Category B programmes in the Directorate of Hydrography and Navigation (DHN), starting in 2017.

Chair highlighted the increasing contribution from Brazil and the commitment to provide support for the benefit of the international hydrographic community. The meeting discussed the need for the CBSC to assess the support provided outside the CBWP via bilateral agreements and by industry contribution. The meeting agreed on the following actions:

Action 5: CBSC and CB Coordinators to provide input about the bilateral direct support outside the CBWP in the reports to the CBSC meetings (permanent).

Action 6: IHB to investigate an additional field in the Country Information System (CIS) or other related database to assimilate the direct in-kind contribution from countries, institutions or industry (deadline: 1 August 2016).

Action 7: CB Coordinators from BSHC, NHC, ARHC, NSHC and USCHC to provide RHC Reports to CBSC meetings with the direct in-kind contribution (permanent).

Decision 5: to note the reports under agenda item 5.1 (*docs. CBSC14-05.1A, CBSC14-05.1B, CBSC14-05.1C, CBSC14-05.1D, CBSC14-05.1E1, CBSC14-05.1E2, CBSC14-05.1F, CBSC14-05.1G, CBSC14-05.1H, CBSC14-05.1I and CBSC14-05.1J*).

5.2 Update and closure of the 2015 CBWP

Doc: CBSC14-05.2 Closed 2015 CBWP

Secretary introduced *doc. CBSC14-05.2* that was subsequently confirmed by the CB Coordinators. The meeting then agreed on the following decision:

Decision 6: to approve the Closed 2015 CBWP (*doc. CBSC14-05.2*).

6. Regional projects for CB

Docs: CBSC14-06A Risk Assessment (SWPHC)
CBSC14-06B Cancelled
CBSC14-06C Definition Study for Long Term Project (EAtHC)
CBSC14-06D Cancelled
CBSC14-06E Cancelled
CBSC14-06F Italian CB Support (Italy)
CBSC14-06G E-learning potential for CB (IMarEST)

Reports and presentations on ongoing developments in regional projects were introduced by the respective participants:

a) Risk Assessment (SWPHC)

SWPHC Chair introduced *doc. CBSC14-06A* and highlighted the benefits of using a risk-based method to identify and communicate the priorities and the shortcomings in hydrographic surveys and chart coverage. The meeting considered that the CB Coordinators are in good position to understand and propagate the concept of risk assessment to coastal States in order to prioritize the surveys, to communicate the risks to decision makers.

The meeting considered that the risk assessment methodology as developed in the SWP may not fit all cases and needs to be adjusted for each region, and concluded that risk assessment is a key element for CB and for fund raising.

b) OECS Project (UK)

MACHC Member, on behalf of UK, reported that the OECS project started in Antigua and Barbuda in 2011 in a joint effort from IHO funded MACHC activity and industry partners that ended up with the first survey in the country since lead line surveys. This motivated the region to progress until the current status of the project, with a costed project in the order of 25 Million US Dollars.

The information raised interesting debate regarding the costs for developing such a costed project and the MACHC Member roughly estimated in 150 000 Pounds. He concluded by saying that data gathered from the project will belong to the coastal States.

c) Definition Study for Long Term Project (EAtHC)

EAtHC Member introduced *doc. CBSC14-06C* and reported on the background of the HydroMAOC project, a definition study to define a consolidated and regional capacity building programme. This initiative actually arose from the improvements brought about by the IHO CB Strategy, where larger projects are envisioned. This study relies on 15 years overview on capacity building status in the sub-region to provide a consolidated analysis of the status and ways forward to regional capacity building in order to elaborate a consolidated and regional project, including an overview on funding sources.

The approved definition study contains an analysis component, a regional hydrographic capacity build-up, and an implementation phase, with an estimated cost of 10-15 Million Euros.

d) Strengthening the Hydrographic Capacities in the MACHC (Mexico)

No participant from Mexico was attending the meeting so the FOCAHIMECA Project could not be introduced to the CBSC. The CBSC understood the importance of the project and that the MACHC should continue to seek coordination with Mexico for the benefit of the coastal States in the region. The following action was agreed:

Action 8: MACHC CB Coordinator to liaise with Mexico for FOCAHIMECA issues and inform the SEPRHC and SWAtHC CB Coordinators (deadline: CBSC15)

e) Neptune Programme (UK)

MACHC Member, on behalf of UK, reported that the Neptune is still in development, and no firm plans have yet to be agreed but UK anticipates limited activity in Caribbean, Indian Ocean and SW Pacific in Year One to prove the concept. The main intent is to work closely with ongoing initiatives that already exist with the aim of not duplicating funding or activity. The UKHO has partnered with the Centre for Environment, Fisheries & Aquaculture Science (CEFAS) and the National Oceanographic Centre (NOC) to deliver the programme.

He informed the meeting that there are twenty 'in scope' nations in this initiative selected on the following criteria: a) Membership of the Commonwealth, b) Eligible for Overseas Development Aid (ODA), and c) Recognized as Small Island Developing States (SIDS) or coastal States with the same challenges as SIDS.

f) Italian CB Support (Italy)

Italy introduced *doc. CBSC14-06F* and provided information on the plans related to Capacity Building and the provision of training for foreigner students. He informed the meeting that the Italian Hydrographic Institute provides trainings for foreigners since the 1930s and that Italy is willing to increase the support for MBSHC countries where only four IBSC recognized programmes exist.

The plans include an MSc degree in Hydrography and Oceanography (Category A) with the University of Genova (duration of 2 years) and a Course in Hydrography (Category B) in cooperation with the International Maritime Safety Security and Environmental Academy (IMSSEA), with a duration of 7 months. There are possibilities for foreign military and civilian students and the fees are for accommodation only (about 50 euros per day). The meeting agreed on the following actions:

Action 9: Chair, ROK and IHB to reconsider within the IHO/Republic of Korea Programme Management Board (PMB) the Italian Category A and Category B programmes (deadline: during PMB7).

Action 10: IHB to provide a draft revised *C-47 Training Courses in Hydrography and Nautical Cartography* to the CBSC (deadline: CBSC15).

Action 11: CBSC to consider the draft revised *C-47 Training Courses in Hydrography and Nautical Cartography* (deadline: during CBSC15).

g) E-learning potential for CB (IMarEST)

IMarEST introduced *doc. CBSC14-06A* and reported on the engagement with Hydrographic Services around the world and the investment in the Marine Learning Alliance (MLA) for delivering e-learning and blended-learning courses for the benefit of the hydrographic community.

The meeting welcomed the developments introduced by IMarEst that may provide hydrographic and cartographic programmes, and their potential interactions with current IHO CB initiatives. Director Iptes stressed that **the International Board on Standards of Competence for Hydrographic Surveyors and Nautical Cartographers (IBSC)**, working under the support and governance of the parent organizations, the International Federation of Surveyors (FIG), the International Hydrographic Organization (IHO) and the International Cartographic Association (ICA), reviewed the submission from MLA but was not yet able to recognize the programme at Category "A" level.

The discussions related to the presentation led to the following action and decision:

Action 12: France to liaise with IMarEST to investigate synergies in e-learning courses and report back to the CBSC (deadline: CBSC15).

Decision 7: to note the reports under agenda item 6 (*docs. CBSC14-06A, CBSC14-06C, CBSC14-06F and CBSC14-06G*).

7. Strategic Issues of the CBSC

Docs: [CBSC14-07A](#) IHO Capacity Building Strategy (IHB)
CBSC14-07B IHO Strategic Plan 2009 (Chair)

The meeting discussed the revised IHO CB Strategy and the way ahead for the CB Strategy, including the development of projects to seek donor funds and the measures of success of the CB Programme. The following points were discussed:

7.1 Assessment of the IHO CB Strategy

The meeting considered the current text of the IHO CB Strategy and the need to update the sentence below to reflect the approval by the EIHC5:

"This version has been reviewed and amended by the CBSC in liaison with the IRCC and the industrial and academic sectors. It will be presented at the 5th Extraordinary International Hydrographic Conference in 2014 for endorsement."

to read "This version has been reviewed and amended by the CBSC in liaison with the IRCC and the industrial and academic sectors and was adopted by the 5th Extraordinary International Hydrographic Conference."

Action 13: IHB to do an editorial amendment to the IHO CB Strategy, third paragraph of item 1, to read "... sectors and was adopted by the 5th Extraordinary International Hydrographic Conference." (deadline: 31 August 2016).

7.2 Way Ahead for the IHO CB Strategy

The Sub-Committee discussed the need to have more CB related content in the IHO Strategic Plan and to include donor agencies' funds. The final text was discussed under agenda item 10. The meeting agreed on the following action:

Action 14: Chair to provide an input to the IHO Strategic Plan to CBSC14 participants (done during the meeting).

7.3 Development of projects to seek donor funds

IHB reported the visit to the World Bank in early May 2016 and the possibilities of funding for the Caribbean, the South-West Pacific and Western Africa. He highlighted that funds are available for well establish and solid projects to be submitted in accordance with the World Bank rules and regulations. The meeting considered the importance of having national and regional donor agencies involved in support of hydrographic developments. The meeting agreed on the following decision and action:

Decision 8: to encourage the CB Coordinators from MACHC, SWPHC and EAthC to get involved with donor agencies and to take part in World Bank Maritime Funding Meeting in October 2016 with funding provided by the IHO CB Admin Funds.

Action 15: CBSC Members to liaise with national and regional donor agencies to get them involved in support of hydrographic development, and report back to the CBSC (deadline: CBSC15).

7.4 Measures of success of the CB Programme

Chair invited the meeting to discuss measures of success for the CBWP. The Secretary requested clear guidance regarding measures of success of the CBWP and the IHO CB Strategy. The meeting agreed the following decision:

Decision 9: to provide the following guidance regarding the way to measure success:

- a) Subjective measures of success:
 - i. Improvement of hydrographic awareness
 - ii. Improvement of the provision of Marine Safety Information
 - iii. Improvement of hydrographic surveys
 - iv. Improvement of the ENC coverage
 - v. Improvement of the protection of the marine environment
- b) Objective success indicators:
 - i. Attraction of funding for the CBWP
 - ii. Number of courses and training provided
 - iii. Number of visits executed
 - iv. Number of students trained
 - v. Evolution of the phase status of each coastal states

The meeting considered the proposal from the Vice-Chair to have an impact assessment done by a questionnaire which may also help the assessment to be done by the CB Coordinators.

France informed the participants that a questionnaire was already developed by the EAthC and the meeting agreed on the following actions:

Action 16: France to provide the impact assessment questionnaire developed in the EAthC (done during the meeting)

Action 17: Vice-Chair to develop a first draft questionnaire for the assessment of the impact of the CBWP (deadline: 15 December 2016)

8. Operational issues of the CBSC

The Sub-Committee discussed the operational issues of the CBSC and the management of the CBWP, considering the topics below:

8.1 Revision of the CB Procedure 7 (*Application Procedure*)

Doc: CBSC14-08.1 draft revised CB Procedure 7 (IHB)

Secretary introduced the draft revised CB Procedure 7 that incorporated the obligation to all the CB Activities' applicants to use Procedure 7, including the obligation to reimburse the IHO in case supported attendees failed to participate in the CB Activities. The meeting agreed on the following decision:

Decision 10: to adopt the revision 1 of the CB Procedure 7

8.2 Revision of the CB Procedure 8 (*Finance Management*)

Doc: CBSC14-08.2 draft revised CB Procedure 8 (IHB)

Secretary introduced the draft revised CB Procedure 8, which includes some changes to better reflect the practices adopted at the Secretariat. The meeting then decided:

Decision 11: to adopt the revision 2 of the CB Procedure 8

8.3 Revision of the draft CB Procedure 9 (*Technical Visits*)

Doc: CBSC14-08.3 draft CB Procedure 9 (IHB)

Chair introduced the draft Procedure 9 that has been accepted during CBSC13 to be used experimentally. The meeting considered the feedback received from the SWPHC CB Coordinator following the use of Procedure 9 during the implementation visits in the region:

"LINZ has utilized the draft CB Procedure 9 as a guide and checklist for information gathering in preparation of the visit and during the visit. The structure of Procedure 9 is not suitable as a template for the published report. The structure and style of the published report should be aligned with that of previous IHO reports, e.g. Cook Is (2011) and Niue (2016). This very clearly articulates the current state, issues and IHO recommendations. In New Zealand experience this formal IHO report provides an authoritative and enduring record that may be referenced as required in subsequent CB engagements with the coastal State. The follow-up Technical Implementation Visits, etc. will directly reference the published IHO report and comment on progress against the recommendations. This provides a logical progression as each CB engagement/activity builds on the previous, providing continuity and accountability. See UKHO Technical Implementation visit reports for Vanuatu and Kiribati (2016)."

The meeting then agreed on the decision and actions below:

Decision 12: to improve the current draft CB Procedure 9 before adoption.

Action 18: CBSC Members to send the input to the Secretary to improve the draft CB Procedure 9 (deadline: 30 June 2016).

Action 19: Secretary to compile the input generated under Action 18 and send it to the Drafting Group (deadline: 31 July 2016).

8.4 Proposal of new CB Procedures

Docs: CBSC14-08.4A Draft CB Procedure 10 on the Management Plan (IHB)

CBSC14-08.4B1 The recording of capacity building phase stage of coastal states (UK)

CBSC14-08.4B2 Draft Procedure 11 – Assessment of the Capacity Building Phase Stage of Coastal States (IHB)

CBSC14-08.4C Draft CB Procedure 12 on a Certificate for the Completion of CB Activities (UK and IHB)

Meeting considered the draft new CB Procedures on the Management Plan, on the assessment of the status of the CB Phases in coastal States and on a certificate to be awarded to those successfully completing CB Activities, presented in *docs. CBSC14-08.4A, CBSC14-08.4B1, CBSC14-08.4B2 and CBSC14-08.4C*, introduced by UK and the IHB. The meeting then agreed on the following decisions and actions related to the procedures below:

a) CB Procedure 10

Decision 13: to keep CB Procedure 10 as a draft and open to comments from CBSC Members and CB Coordinators.

Action 20: CBSC Members and CB Coordinators to send input to the Secretary on draft Procedure 10 (deadline: 30 November 2016)

Action 21: Secretary to resubmit the improved Procedure 10 to the CBSC (deadline: CBSC15).

b) CB Procedure 11

Decision 14: to adopt the proposed amendments to the Terms of Reference for CB Coordinators.

Action 22: Secretary to upload the amended Terms of Reference for CB Coordinators to the IHO website (deadline: 30 June 2016).

Decision 15: to implement the draft CB Procedure 11 and to re-consider it during CBSC15.

Action 23: CB Coordinators to implement the draft CB Procedure 11 during the preparation of the 3-year WP (deadline: 1 July 2016).

Action 24: CB Coordinators to provide the feedback from the use of the draft Procedure 11 to the Secretary (deadline: 30 September 2016).

Action 25: Secretary to update the draft CB Procedure 11 and submit back to the CBSC (deadline: CBSC15).

USCHC supported that there should be not penalty on countries that do not have a National Hydrographic Committee (NHC), one of the items to be assessed in the CB Procedure 11, but the understanding of the meeting was that this criteria is a plus to those that have but not a penalty to those that do not have it.

c) CB Procedure 12

The meeting considered that the numbering system will be centrally controlled by the CBSC Secretariat and that this is a certificate for the participation not for the satisfactory completion of the training.

Decision 16: to implement the draft CB Procedure 12 and to re-consider it during CBSC15.

Action 26: CBSC Members to send input to the Secretary on draft Procedure 12 (deadline: 31 November 2016).

Action 27: Secretary to incorporate the feedback from CBSC Members to the draft Procedure 12 and to re-submit it to the CBSC (deadline: CBSC15).

8.5 CB Management System update

Secretary informed the meeting on the ongoing developments of the CB Management System at the IHB with the support from the ROK and its seconded officer at the IHB.

8.6 C-55 Status and Developments

Secretary updated the meeting on ongoing developments on the IHO Publication C-55 in order to turn it more user-friendly.

8.7 Performance Indicators and Statistics

Doc: CBSC14-08.7 Performance Indicators (Chair)

The Chair introduced *doc. CBSC14-08.7* and invited the participants to discuss the way ahead with the requirements for the Performance Indicators and the establishment of the relevant statistics related to CB.

The meeting considered that the single most important performance indicator for the IHO Capacity Building is the SPI3 and agreed on the following decision and action:

Decision 17: to propose to IRCC the removal of all the SPIs and WPIs except SPI3 and propose a procedure to develop SPI3 based on the draft CB Procedure 11.

Action 28: Chair to develop a proposal to be submitted to the IRCC8 (deadline: IRCC8).

8.8 Review of the 3-year RHC Work Plans

*Docs: CBSC14-08.8A EAHC 3-year Work Plan
CBSC14-08.8B SWPHC 3-year Work Plan
CBSC14-08.8C SWAtHC 3-year Work Plan*

Chair invited the CBSC Members that already developed the 3-year Work Plans of the RHCs in accordance with CBSC13 Action 45 to introduce their WPs (*docs. CBSC14-08.8A, CBSC14-08.8B and CBSC14-08.8C*). Chair highlighted that this WPs will be part of the CBSC submission to the IHC19/1st Assembly.

The meeting also considered that the request for support to MSDI activities should be accompanied with a clear description of which component of an MSDI addressed and what is the objective that is envisioned, and that whenever available, the non-IHO CB activities should be included in the 3-year work plans. The meeting agreed on the following actions and decision:

Decision 18: to instruct the CB Coordinators to elaborate the 3-year work plans with a clear description of the requests for support to MSDI activities and whenever available, with the non-IHO CB activities in the regions.

Action 29: Secretary to develop a template for the 3-y WP and distribute to the CB Coordinators (deadline: 13 June 2016).

Action 30: CB Coordinators to provide the 3-y WP to the CBSC Chair, considering Decision 18 (deadline: 1 July 2016).

Decision 19: to note all the reports under agenda item 8 (*docs. CBSC14-08.4A, CBSC14-08.4B1, CBSC14-08.4B2, CBSC14-08.4C, CBSC14-08.7, CBSC14-08.8A, CBSC14-08.8B and CBSC14-08.8C*)

Action 31: Secretary to upload the approved amended CB Procedures 7 and 8 and the draft CB Procedures 9, 10, 11 and 12 to the IHO website (deadline: 31 August 2016).

9. CB Management

9.1 Update of the 2016 CBWP

Docs: CBSC14-09.1A Updated 2016 CBWP (IHB)

CBSC14-09.1B Request on P-02 (EAHC)

CBSC14-09.1C Workshop CB-Navarea Coordinators (IHB)

Secretary and the EAHC Member introduced *docs. CBSC14-09.1A* and *CBSC14-09.1B* and Chair invited the CB Coordinators to provide feedback to and to update the 2016 CBWP.

Considering the feedbacks, the Sub-Committee agreed the following decisions:

Decision 20: to substitute Lebanon by Azerbaijan for the high-level visit in activity A-04.

Decision 21: to condition the provision of funding for the technical visits to Timor-Leste and Cambodia to the provision of the reports conducted by EAHC in 2014.

Decision 22: to allocate additional 10 000 euros to activity P-02.

IHB highlighted that the technical visits need to be conducted by technical personnel not the chief hydrographers. MACHC Member informed the meeting that the technical visit to Haiti was upheld until the next presidential election due to the possible changes in the Haitian Hydrographic Service.

The meeting considered the proposal from the EAHC Member to incorporate the IMO audit scheme questionnaire on Hydrography in the draft CB Procedure 9 and to monitor the calendar of IMO audits in order to identify opportunities, and then agreed on the following:

Decision 23: to add the IMO audit scheme questionnaire to the draft CB Procedure 9.

Action 32: Secretary to add the IMO audit scheme questionnaire to the draft CB Procedure 9 (deadline: 31 July 2016).

Action 33: Secretary to add the link with the planned IMSAS audits (deadline: 31 August 2016).

Note: Action 32 to be executed in conjunction with Action 19.

MACHC Member requested the meeting to change the scope of activity P-11 to MSI training only, following a recommendation from the WWNWS-SC Chair. The governance part will be addressed in the P-05.

Decision 24: to adjust the 2016 CBWP activity P-11 to "MSI training".

MBSHC Member reported that the ENC production course late request in 2016 was not incorporated into the 2016 CBWP. Secretary explained that the submission was done intersessionally and arrived after the 2016 CBWP had been circulated and approved. The meeting then agreed the decision and action:

Decision 25: to include the MBSHC ENC Production Course in the 2017 CB Management Plan.

Action 34: Secretary to include the MBSHC ENC Production Course in the 2017 CB Management Plan (deadline: during the meeting).

The meeting considered the case of the activities marked as "Not funded yet" at the 2016 CBWP and some of them were adjusted accordingly as reflected in **Annex A**. The meeting also considered the case of the activities P-12 and P-16, both for the provision of MB training in South America at the SEPRHC and SWAtHC and decided:

Decision 26: to investigate the possibility to merge P-12 (SEPRHC) and P-16 (SWAtHC) for the provision of MB training in order to reduce the costs and increase the synergies, and to include MACHC participation.

Action 35: SEPRHC and SWAtHC Members to investigate the possibility to merge P-12 (SEPRHC) and P-16 (SWAtHC) for the provision of MB training and inform the CBSC (deadline: 30 June 2016).

Secretary introduced the proposal to have a joint workshop with the CB Coordinators and the NAVAREA Coordinators (*doc. CBSC14-09.1C*). The meeting agreed that there is a need for a much better formal communication between the CBSC and the WNWNS-SC for the assessment of the status of MSI and the provision of proper support for the RHCs. The meeting considered the proposal and the previous updates in the 2016 CBWP and agreed the following decisions and actions:

Decision 27: not to approve the CB-NAVAREA Coordinators Workshop.

Decision 28: to approve the Updated 2016 CBWP (**Annex A**)

Action 36: CB Coordinators to consider participation to the WNWNS8 meeting in Alesund (Norway) in September 2016 (deadline: WNWNS8).

Action 37: Chair to liaise with the WNWNS-SC Chair to improve the assessment of the MSI by the NAVAREA Coordinators and the reporting to the CBSC (deadline: 1 December 2016).

9.2 Finance Report

Doc: CBSC14-09.2 Finance Report (IHB)

Secretary introduced the finance report (*doc. CBSC14-09.2*) for the approval of the CBSC with the balance from 2015 and the estimates for the 2016 and 2017, considering the updated 2016 CBWP (**Annex A**).

Decision 29: to approve the Finance Report (*doc. CBSC14-09.2*).

Action 38: Secretary to upload the Updated 2016 CBWP to the IHO website (deadline: 30 June 2016).

Members discussed whether to use the existing budget (around 55 000 Euros) to the activities no funded yet in 2016 or to keep it for 2017, given the limited non-earmarked resources available and agreed on:

Decision 30: to maintain the expected 2016 balance (55 000 euros) to be used in 2017.

9.3 Management Plan

Doc: CBSC14-09.3 draft 2017 CB Management Plan (IHB)

Secretary introduced the draft 2017 CB Management Plan (*doc. CBSC14-09.3*) and the meeting started by consider the fundamental aspects of the IHO CB Strategy and agreed that the Management Plan should be aligned with the following principles:

- a) support to non-IHO Member States is limited to awareness-related and Phase 1 activities;
- b) no support is given for the participation of coastal States with Gross Domestic Product (GDP) bigger than 20 000 USD;

The meeting also discussed where maritime boundary and Law of the Sea activities stay when it comes to identifying the CB Phase and the understanding is that both themes are beyond Phase 3 for the purpose of Procedure 4. The meeting then agreed the following:

Decision 31: maritime boundaries and Law of the Sea are beyond phase 3 and the equivalent weight in Procedure 4 is the same for Phase 3.

Action 39: Secretary to propose an amendment in the CB Procedure 4 to include reference to maritime boundaries and Law of the Sea (deadline: 30 September 2016).

Decision 32: to approve the 2017 CB Management Plan (Annex B).

9.4 Adoption of the 2017 CBWP

Doc: CBSC14-09.4 Adopted 2017 CBWP (IHB)

Secretary introduced *doc. CBSC14-09.4* that was drafted during the meeting following the approval of the 2017 CB Management Plan. The meeting confirmed the priorities in CB Management Plan and agreed the following:

Decision 33: to approve the Adopted 2017 CBWP (Annex C).

10. Report from the CBSC to the IRCC8 Meeting

Chair introduced a draft proposal for the topics to be included in the CBSC Chair report to the IRCC8, including the proposals for the revision of the IHO Strategic Plan 2009. The meeting agreed to propose the following amendments to the IHO Strategic Plan 2009:

- a) Amend item 4.4.4 to read: "promoting Capacity Building in Hydrography on a regional and international level".
- b) Add a new item 5.3:

5.3. Capacity Building Programme

A CB Programme with an underlying CB Strategy is in place and is further developed,

In the IHO, capacity building is defined as the process by which the organization assesses the status of current arrangements and assists States to achieve sustainable development and improvement in their ability to meet hydrographic, cartographic and maritime safety obligations with particular reference to recommendations in UNCLOS, SOLAS, and other international instruments,

MS are encouraged to support the CB efforts with contributions according to their ability,

A CB Fund is being operated by the IHO.

- c) Renumber item 5.3 to 5.4

Chair introduced the key points for the CBSC Report to the IRCC8:

- 1) Main developments
 - Donor agency involvement in comprehensive projects
 - E-learning, blended-learning and TFT initiatives
 - Strict prioritization and limitation of support from CB Fund
- 2) Major challenges
 - Fund limitation and planning necessities
 - Assessment of the status of CB Phases in coastal States by CB Coordinators
 - From Brian Connon
 - Capacity of the Capacity Builders
 - Coordination of the growing number and complexity regional projects
 - The Capacity Building Assistance in the IHO Secretariat
- 3) CB Management
 - New procedures
 - More support from IHB staff

- 4) Contribution to CB
 - ROK
 - Nippon Foundation
 - Direct contribution from MS to CB Activities
 - Contribution via bilateral agreements
- 5) Joint CB
- 6) CB Work Programme
- 7) IHO Strategic Plan 2009
- 8) Next Meeting
- 9) Proposals

11. Any other business

There were no other business.

12. Next CBSC Meetings (venue and date)

Chair invited the participants to agree on the dates and venue for CBSC15, to confirm the CBSC16 and invited to offer to host CBSC17. The meeting agreed on:

Decision 34: to hold CBSC15 in Paramaribo (Suriname) from 7-9 June 2017, back-to-back with IRCC9 (12-14 June 2017), subject to the confirmation from IRCC.

Decision 35: to hold CBSC16 in Goa (India) in May/June 2018 subject to confirmation by India.

Action 40: India to confirm the CBSC16 dates and venue (deadline: 31 October 2016).

Decision 36: to hold CBSC16 in Italy in case India is not able to host the meeting.

Decision 37: to hold CBSC17 in Italy in May/June 2019 subject to Italy not hosting it in 2018.

13. Review of the List of Actions

Secretary introduced the draft the List of Actions and List of Decisions agreed during CBSC14 that was reviewed by the meeting.

Decision 38: to adopt the List of Actions (**Annex D**) and List of Decisions (**Annex E**)

14. Closure

Chair closed the meeting at 17h00 on 26 May 2016.

INTERNATIONAL HYDROGRAPHIC ORGANIZATION
Updated 2016 CBWP

Updated: 26/05/2016

IHO WP Element: Capacity Building Assessment - Technical and High-Level Visits					
No.	Events	Responsible	Budget	Status	Resources
A-01	Technical Assessment & Advice - Samoa (former 2015 CBWP A-07)	SWPHC	6 000,00 €	Led by LINZ August 2016	IHO
A-02	High-level Visit to Tanzania	SAIHC	8 000,00 €	Led by UKHO Dates TBD	IHO
A-03	Technical Assessment & Advice – Tuvalu	SWPHC	3 326,00 €	Led by LINZ with UKHO August 2016	IHO
A-04	High-level Visit to Azerbaijan	MBSHC	1 800,00 €	Led by IHB September 2016	IHO
A-05	Technical Visit to Timor Leste	EAHC	7 800,00 €	Led by Malaysia Dates	IHO
A-06	Technical Visit to Montenegro combined with Albania (former 2015 CBWP A-03)	MBSHC	5 000,00 €	Led by Turkey October 2016	IHO
A-07	Technical Visit to Cambodia (former 2015 CBWP A-04)	EAHC	3 400,00 €	Led by Malaysia October 2016	IHO
A-08	Haiti follow up visit (former 2015 CBWP A-05)	MACHC	10 000,00 €	Led by USA Dates	IHO
A-09	Technical Visit to Liberia (former 2015 CBWP A-06)	EAHC	6 000,00 €	Led by IHB with UKHO DONE 03-05 February 2016	IHO
A-10	MOWCA (all western Africa coastal and island states from Mauritania to Angola) high level visit (former 2015 A-08)	EAHC	5 000,00 €	Led by SHOM, Lomé, Togo 15 October 2016	IHO
		-	56 326,00 €		

IHO WP Element: Capacity Building Provision - Technical Workshops, Seminars, Courses					
No.	Events	Responsible	Budget	Status	Resources
P-01	ROK Category A Programme	IHB	90 000,00 €	Led by USM, Hattiesburg, USA 1 August 2016-1 August 2017	ROK
P-02	Training for Trainers - Basic Hydrography	EAHC	60 000,00 €	Led by KHOA, Busan, Korea Dates TBD	ROK
P-03	ROK Category B Programme (second phase)	IHB	84 700,00 €	Led by KHOA, Busan, Korea 4 April-3 June 2016	ROK
P-04	Nippon Chart Project	IHB	195 000,00 €	Led by UKHO, Taunton, UK September-December 2016	Nippon

INTERNATIONAL HYDROGRAPHIC ORGANIZATION

Updated 2016 CBWP

IHO WP Element: Capacity Building Provision - Technical Workshops, Seminars, Courses					
No.	Events	Responsible	Budget	Status	Resources
P-05	Seminar on Raising Awareness of Hydrography	MACHC	15 500,00 €	Led by UKHO, Belém, Brazil 12-13 December 2016	IHO
P-06	E-learning experimentation (MSI)	EAHC	20 000,00 €	Led by SHOM Dates TBD	IHO
P-07	MBES Processing	NIOHC	8 500,00 €	Led by UKHO, Yangon, Myanmar 06-10 June 2016	IHO
P-08	Technical Workshop for PICTs in Formulating and Implementing Strategic Development Plans for Hydrography	SWPHC	36 000,00 €	Led by LINZ, Noumea, New Caledonia 28-29 November 2016	IHO
P-09	CB Assistant	IHB	0,00 €	Cancelled	Cancelled
P-10	Tide Training Course	SWAtHC	16 400,00 €	Led by DHN, Niteroi, Brazil October 2016	IHO
P-11	MSI Training	MACHC	19 952,00 €	Led by UKHO, St. Lucia 16-18 August 2016	IHO
P-12	Workshop on technics, methodology of MBES data processing	SEPRHC	26 911,00 €	Led by Dimar, Cartagena, Colombia 22-26 August 2016	IHO
P-13	Chart Scheming	NIOHC	0,00 €	Cancelled	Cancelled
P-14	MSI Regional Workshop	SWPHC	25 000,00 €	Led by LINZ August 2016	ROK
P-15	MBES setting to work project for Mozambique	SAIHC	9 604,00 €	Led by Portugal, Maputo, MZ Dates TBD	ROK
P-16	Multi-beam Training Course	SWAtHC	25 000,00 €	Led by SHN, Buenos Aires, Argentina 12-17 September 2016	ROK
P-17	MSDI Workshop for Spanish speakers	MACHC	23 658,00 €	Led by SEMAR, Vera Cruz, Mexico Dates TBD	IHO
P-18	Introduction to MSDI and Data Management	NIOHC	12 000,00 €	Led by UKHO, Visakhapatnam, India 20-24 June 2016	ROK
P-19	Satellite Derived Bathymetry Workshop	MACHC	6 500,00 €	With P-05	ROK
P-20	Advanced ENC Production	NIOHC	8 500,00 €	Led by UKHO, Colombo, Sri Lanka 25-29 April 2016 DONE	ROK

INTERNATIONAL HYDROGRAPHIC ORGANIZATION
Updated 2016 CBWP

IHO WP Element: Capacity Building Provision - Technical Workshops, Seminars, Courses					
No.	Events	Responsible	Budget	Status	Resources
P-21	Workshop on LIDAR technology for shallow waters	SEPRHC	0,00 €	With P-12	Cancelled
P-22	ENC Production and QA	RSAHC	20 110,00 €	Led by UKHO Dates	IHO
P-23	Satellite Derived Bathymetry	EAHC	0,00 €	Led by Dates	Cancelled
P-24	Cartographic Production Database System Workshop	EAHC	0,00 €	Led by Dates	Cancelled
P-25	Multi-beam Survey and Seabed Classification	EAHC	0,00 €	Led by Dates	Cancelled
P-26	ENC QA (former 2015 CBWP P-13)	NIOHC	12 322,00 €	Combined with P-22	IHO
P-27	Workshop on Multi-beam Echosounder and SSS Systems (former 2015 CBWP P-14)	MBSHC	13 070,00 €	Led by ONHO, Istanbul, Turkey October 2016	IHO
P-28	Regional Training Course in Basic Hydrography and Hydrographic Governance for Southern Africa	SAIHC	-	Led by Dates	In-kind from IMO
P-29	Regional Training Course in Hydrographic Field Operator for Francophone Africa	EAHC	-	Led by Dates	In-kind from IMO
P-30	GEBCO Training Project	UHN	-	Led by UNH, Durham, USA August 2016-August 2017	In-kind from Nippon
P-31	Phase 1 Skills Training Course (former 2015 CBWP P-04)	SAIHC	19 952,00 €	Led by UKHO, Walvis Bay, Namibia 18-22 July 2016	IHO
	Subtotal of P (Provision)	-	748 679,00 €		

Total	805 005,00 €	
ROK	321 304,00 €	Subtotal ROK
IHO	288 701,00 €	Subtotal IHO
Nippon	195 000,00 €	Subtotal Nippon

INTERNATIONAL HYDROGRAPHIC ORGANIZATION

CAPACITY BUILDING SUB-COMMITTEE (CBSC)

CBSC14 Meeting
Abu Dhabi, 24-26 May 2016

2017 Capacity Building Management Plan
(Annex B to the CBSC14 Report)

This document is prepared with the compilation of the submissions received from the Regional Hydrographic Commissions (Procedures 1 and 4) and modified and adopted by the CBSC14.

Content

Summary of Submissions	Page 2
Compilation of Submissions (Procedure 1)	Pages 3 to 8
Compilation of Submissions (Procedure 4)	Page 9
2016 CB Management Plan	Pages 10 and 11

Alberto Costa Neves
Assistant Director
CBSC Secretary
IHB, 1 July 2016

INTERNATIONAL HYDROGRAPHIC ORGANIZATION
CAPACITY BUILDING SUB-COMMITTEE
2017 CAPACITY BUILDING MANAGEMENT PLAN

Approved Projects for 2017

CB Phase	Number of projects submitted	Amount (Euros)	%
0	7	161 600	15,9
1	4	55 460	5,5
2	12	457 265	45,1
3	8	323 520	31,9
4	1	16 120	1,6
Total	32	1 013 965,00	100

Note: do not edit this page!

Notes:

1. Support provided to States with GDP < 20.000 USD
2. Support to non-MS limited to Visits and Phase 1 only

RHC	Number of projects submitted	Amount (Euros)	%
EAHC	3	50 280,00	5,0
EAtHC	4	52 600,00	5,2
MACHC	3	39 927,00	3,9
MBSHC	2	25 200,00	2,5
NIOHC	4	46 974,00	4,6
RSAHC	2	24 640,00	2,4
SAIHC	1	14 859,00	1,5
SEPRHC	2	51 385,00	5,1
SWAtHC	3	60 100,00	5,9
SWPHC	4	149 000,00	14,7
IHO/ROK	3	304 000,00	30,0
Japan	1	195 000,00	19,2
Total	32	1 013 965,00	100,0

Sponsor RHC	Year of Execution	Countries involved	Priority	Project Name	Project Objective	Benefits	Assistance required	Cost (Euro)	Contact Person
EAHC	2017	EAHC Members	1	TFT Hydro	As a follow up course to train up a pool of Trainers in each EAHC Member State office so that they can conduct training for their respective office. This would be especially useful in States where English is not their mother tongue.	To build up new survey officers through a structured training programme in a cost effective way. Greater benefits will be achieved from the non-English speaking offices.	CB Funds for course fees, accommodation costs and return flights.	60 000 €	Mr. Junghyun KIM This is a earmarked project and will not be shown in the Procedure 4 tab
EAHC	2017	EAHC Members	2	Hydrographic Survey for Disaster Management and Relief	To introduce the hydrographic survey and nautical chart preparation techniques for planning disaster management and maritime environmental preservation.	For MS to understand the usage of geographical space information for planning disaster management and maritime environmental preservation	CB Funds for course fees, accommodation costs and return flights.	23 040 €	Mr. Junghyun KIM
EAHC	2017	EAHC Members	3	Use of GNSS for tide correction for survey	To introduce the uses of GNSS/WADGP data for tide reduction.	To understand the principles and use of GNSS/WADGPS data for tide reduction.	CB Funds for course fees, accommodation costs and return flights.	23 040 €	Mr. Junghyun KIM
EAHC	2017	EAHC Members	4	Lidar and Satellite Derived Bathymetry Workshop	To introduce and share the multispectrum LiDAR and SDB as one of methods of determining bathymetry.	Introduction and sharing the principles and techniques of LiDAR and SDB.	CB Funds for course fees, accommodation costs and return flights.	23 040 €	Mr. Junghyun KIM
EAtHC	2017	Gambia	1	Technical visit	Advise on a way forward	Provide guidance to Gambia to build up national hydrographic capability to meet national and international obligations		5 000 €	Eric Langlois (SHOM)
EAtHC	2017	France	2	MSI E-learning guided sessions.	Organize guided sessions for the on-line MSI course	Better access to MSI educational material, cost-efficiency related to MSI courses	Financial support to tutoring fees, platform host and domain fees	2 600 €	Eric Langlois (SHOM)
EAtHC	2017	France	3	HydroMOWCA study follow-up	Promotion and achievement of the EAtHC CB programme	Funding the EAtHC CB Programme set by the HydroMOWCA study	Fundings to perform on-site visits to funding bodies	15 000 €	Eric Langlois (SHOM)

Sponsor RHC	Year of Execution	Countries involved	Priority	Project Name	Project Objective	Benefits	Assistance required	Cost (Euro)	Contact Person
EAtHC	2017	Countries in the EAtHC region	4	Development of a survey specifications distance learning course	Develop Massive Open Online Course (MOOC) to provide distance learning on how to specify and contract surveys	A better provision of survey data nautical information to PCAs on contracting surveys	Funds for development, tutor training and tests	30 000 €	Eric Langlois (SHOM)
MACHC	2017	Initially Bahamas, Belize, Costa Rica, Dominican Republic, El Salvador, Guyana, Haiti,	1	MSI Course	To establish capacity in MSI so that Maritime Authorities can provide high quality services to comply with the basic requirements for safety of navigation in the area	Improving maritime safety and compliance with SOLAS	Travel & Subsistence for 2 trainers and 9 students	16 027 €	Jeff Bryant (MACHC CB Coordinator)
MACHC	2017	Bahamas, El Salvador, Honduras, Montserrat, Nicaragua, Turks & Caicos (plus four other nations)	2	Seminar on Raising Awareness of Hydrography (for MACHC Associate and Non Members)	To ensure that countries in the MACHC region are made aware that the provision of hydrographic services is an international obligation under treaty law affecting all Member States (MS) of the	Participants will gain a better understanding of the regulatory framework which supports hydrography and how this can benefit a coastal state (Blue Economy etc)	The contribution from the CBSC fund will cover travel and subsistence for one representative from each of the 11 countries involved. The representatives will be expected to stay on for the	15 500 €	Jeff Bryant (MACHC CB Coordinator)
MACHC	2017	Dominican Republic and El Salvador	3	Technical Implementation Visits to Dominican Republic and El Salvador	To assist and advise Dominican Republic and El Salvador to fully implement the recommendations in the IHO reports of the 2012 & 2010 technical and advisory visits.	Understanding of SOLAS obligations and ways in which to meet them. A robust MSI promulgation process. Improved charting of the region.	Travel & Subsistence for two experts	8 400 €	Jeff Bryant (MACHC CB Coordinator)
MACHC	2017	Bahamas, Belize, Dominican Republic, El Salvador, Guyana, Honduras & Nicaragua	4	Basic Hydrographic Survey Course	To train survey operations personnel in accordance with Phase 2 of IHO's Capacity Building procedures	Improved understanding of survey requirements and the operation of basic equipment	Travel & Subsistence for 2 trainers and 8 students + (1 local)	26 507 €	Jeff Bryant (MACHC CB Coordinator)
MBSHC	2017	Algeria, Georgia, Montenegro, Romania and Tunisia	1	Workshop on ENC production and distribution	Improve the capacity of MBSHC countries to produce and distribute their ENCs.	Promote ENC production and distribution to meet national and international obligations		9 080 €	LCDR.Eşref GÜNSAY egunsay@shodb.gov.tr +90 216 322 25 80 (3610)

Sponsor RHC	Year of Execution	Countries involved	Priority	Project Name	Project Objective	Benefits	Assistance required	Cost (Euro)	Contact Person
MBSHC	2017	Algeria, Georgia, Greece, Montenegro, Romania, Russian Fed., Ukraine, Albania, Bulgaria, Lebanon, Malta, and Israel (non-MS in red)	2	Workshop on Technical Aspects of Maritime Boundaries	To each participants the basic technical principles to maritime boundary delimitation	Participant will have knowledge on the technical aspects of implementing the UNCLOS		16 120 €	LCDR.Eşref GÜNSAY egunsay@shodb.gov.tr +90 216 322 25 80 (3610)
NIOHC	2017	NIOHC, Members States	1	MSI (training on establishment of MSI structure and basic MSI procedures)	To establish capacity in MSI so that Maritime Authorities can provide high quality services to comply with the basic requirements for safety of navigation in the area	Improving maritime safety and compliance with SOLAS	Fund Travel & subsistence for up to 10 students, together with x2 MSI instructors	21 974 €	Jeff Bryant (NIOHC CB Coordinator)
NIOHC	2017	Seychelles	2	Technical Visit to Government high authorities – the Seychelles	Raise the profile of hydrography at the highest level in the Seychelles	Greater understanding at the highest levels and continued funding	Fund Travel & subsistence for 2 persons (IHB + one other to undertake the visit)	8 000 €	Jeff Bryant (NIOHC CB Coordinator)
NIOHC	2017	Bangladesh	3	Advanced Chart Production	To train the whole cartographic production team in the use of the new systems as well as defining workflow from receipt of data from the survey vessel into the chart production workflow	Better and more efficient outputs from the production system which will mean better and safer charts	Fund Travel & subsistence for 1 trainer	8 500 €	Jeff Bryant (NIOHC CB Coordinator)
NIOHC	2017	Myanmar	4	Advanced Chart Production	To train the whole cartographic production team in the use of the new systems as well as defining workflow from receipt of data from the survey vessel into the chart production workflow	Better and more efficient outputs from the production system which will mean better and safer charts	Fund Travel & subsistence for 1 trainer	8 500 €	Jeff Bryant (NIOHC CB Coordinator)

Sponsor RHC	Year of Execution	Countries involved	Priority	Project Name	Project Objective	Benefits	Assistance required	Cost (Euro)	Contact Person
RSAHC	2017	Bahrain & Qatar	1	Technical Visit (visit to maritime/port authorities) in Bahrain & Qatar	1. Technical Advisory and Assessment visit by IHB approved consultant & RSAHC CB Coordinator 2. Prepare a phased action plan to develop the necessary hydrographic infrastructure	Promote in-country hydrographic services and active national coordinator for MSI	Fund Travel & subsistence for IHB endorsed consultant and RSAHC CB Coordinator	9 700 €	Jeff Bryant (RSAHC CB Coordinator)
RSAHC	2017	RSAHC Member States	2	Basic ENC & ENC Production	To gain an understanding of the international standards relating to Electronic Charts, the IHO Standard S-57, and the regulations, role and purpose of Electronic Navigational Charts.	Improved knowledge of the production, distribution and use of ENCs	Fund Travel & subsistence for up to 8 students, together with x2 UKHO trainers	24 500 €	Jeff Bryant (RSAHC CB Coordinator)
SAIHC	2017	Angola, Comoros, Kenya, Madagascar, Malawi, Mauritius, Mozambique, Namibia, Seychelles & Tanzania	1	MSI Course (3 days)	To establish capacity in MSI so that Maritime Authorities can provide high quality services to comply with the basic requirements for safety of navigation in the area	Improving maritime safety and compliance with SOLAS	Travel & Subsistence for 2 trainers and 9 students (1 local)	14 859 €	Jeff Bryant (SAIHC CB Coordinator)
SEPRHC	2017	Colombia (2) Chile (2) Peru (2) Ecuador (2)	1	Workshop on Bathymetric Database	Improve knowledge of the specialists on this subject. The workshop will be aimed at acquiring basic knowledge of Bathymetric Data Base methodology, applied to bathymetric data administration.	Improve knowledge of the specialists on use of methodology for bathymetric data management.	CARIS Enterprise instructors	22 000 €	Lt Jorge TALAVERA
SEPRHC	2017	Colombia (2) Chile (2) Peru (2) Ecuador (2)	2	Workshop offshore surveys (geophysical analysis and identification of seamounts)	To acquire on methodology offshore surveys (geophysical analysis and identification of seamounts), applied to define submarine accidents and geophysical studies	To acquire basic knowledge about offshore surveys (geophysical analysis and identification of seamounts).	Enterprise instructors	29 385 €	Lt Jorge TALAVERA

Sponsor RHC	Year of Execution	Countries involved	Priority	Project Name	Project Objective	Benefits	Assistance required	Cost (Euro)	Contact Person
SWAtHC	2017	Argentina, Brazil, Uruguay, Paraguay, Bolivia, as well as SEPHC, and MACHC.	1	Bathymetry training course using RTK technology	To increase the capacity of Latin American hydrographers to perform bathymetry using RTK technology.	The main purpose is to achieve the IHO S-44 standards on bathymetric data, especially on positioning, improving the quality of nautical charts. This training will allow the Hydrographic Services to develop products INT/ENC with better accuracy.	21 000,00 € from CB Fund	18 000 €	Capt.Carvalho (DHN)
SWAtHC	2017	Argentina, Brazil, Uruguay, 4 MACHC MS and 4 SEPHC MS	2	Digital Photogrammetry with satellite images	Disseminate and increase the use of Digital Photogrammetry with satellite images in nautical chart production.	Improve nautical charts and ENC's production and updating methods allowing quality enhancement and cost reduction using the provided tools and knowledge.	31 200,00 € from CB Fund	26 200 €	Cmdr Gustavo ALMAZAN (SHN) ARGENTINA
SWAtHC	2017	Argentina, Brazil, Uruguay, Paraguay, Bolivia, as well as SEPHC, and MACHC. Obs. : Other four Latin American countries could be invited.	3	Data management WORKSHOP	To increase the Latin American capability on Data Management in order to properly use geo-referenced Data bases (i.e. ENC database).	More qualified hydrographers to use Nautical Charts database products within the South American region. The more qualified hydrographers would benefit the final quality of ENC production. The main purpose is to discuss how Data Management can improve MS meeting of the IHO -S57 standards and future IHO-S100 and enhancing of their Nautical Charts quality.	21 500,00 € from CB Fund	19 500 €	Cdr. Jorge LEMOS (SOHMA)
SWPHC	2017	Fiji	1	MBES Technical Workshop	This training will enhance the knowledge of Fiji Navy in MBES operations and data processing	Improved understanding and collaboration on MBES knowledge for Fiji Navy	Fund 2 instructors for travel & subsistence to deliver training	11 000 €	CDRE Brett BRACE, RAN (Hydrographer of Australia)
SWPHC	2017	Solomon Islands	2	Solomon Islands Nautical Cartographer Development	Develop cartographic skills	Increased capacity of Solomon Islands Hydrographic Unit	Funding for travel, accommodation and subsistence for 1 person	8 000 €	Clifford Olisukulu

Sponsor RHC	Year of Execution	Countries involved	Priority	Project Name	Project Objective	Benefits	Assistance required	Cost (Euro)	Contact Person
SWPHC	2017	Fiji, PNG, Solomon Is, Vanuatu & Tonga	3	SW Pacific Region Industry Survey Project	Assisting IHO MS in the region to build capacity to achieve CB Phase 2, i.e. creation of a survey capability to conduct coastal and offshore projects.	Accurate and adequate charting for SWPHC IHO MS	Funding for third party expenses such as airfares, accommodation, meals and equipment freight costs	30 000 €	CDRE Brett BRACE, RAN (Hydrographer of Australia)
SWPHC	2017	PNG, AU, NZ	4	PNG Hydrographic Risk Assessment	Fulfill SOLAS obligations (To assist PNG to prioritise charting improvements and related maritime safety initiatives)	Fulfill SOLAS obligations (To assist PNG to prioritise charting improvements and related maritime safety initiatives)	Fund a Hydrography Risk Assessment for PNG	100 000 €	CDRE Brett BRACE, RAN (Hydrographer of Australia)
Total:								633 472 €	

RHC	Project Name	1	2	3	4	5	6	7	8	9	Total	Phase	Priority	Resources	Sum	Observation
EAthC	MSI E-learning guided sessions.	3	10	5	0	10	3	5	0	5	41	1	1	2 600	2 600	
EAthC	Technical visit to Gambia	3	10	1	0	10	5	5	0	5	39	0	2	5 000	7 600	
MACHC	MSI Course	3	10	5	3	7	5	4	-2	4	39	1	3	16 027	23 627	
NIOHC	MSI (training on establish of MSI structure, basic MSI procedures)	3	10	5	3	7	5	4	-2	4	39	1	4	21 974	45 601	
SAIHC	MSI Course (3 days)	3	10	5	3	7	5	3	-1	4	39	1	5	14 859	60 460	
SWPHC	SW Pacific Region Industry Survey Project	5	5	1	5	10	1	5	0	5	37	2	6	30 000	90 460	
SWPHC	MBES training for Fiji	3	5	1	5	8	5	5	0	5	37	2	7	11 000	101 460	
MACHC	Seminar on Raising Awareness of Hydrography	5	10	5	0	6	5	4	-3	3	35	0	8	15 500	116 960	
EAthC	HydroMOWCA study follow-up	3	5	5	0	10	1	5	0	5	34	0	9	15 000	131 960	
MBSHC	Workshop on ENC production and distribution	3	1	3	0	7	5	5	5	5	34	3	10	9 080	141 040	
EAthC	E-learning on specifications for hydrographic surveys	3	5	5	0	10	0	5	0	5	33	2	11	30 000	171 040	
NIOHC	Technical Visit to Government high authorities of Seychelles	5	10	1	4	6	3	4	-2	2	33	0	12	8 000	179 040	
EAHC	Hydrographic Survey for Disaster Management and Relief	3	5	5	0	6	3	5	0	5	32	2	13	16 760	195 800	
MACHC	Technical Implementation Visits to Dom. Republic and El Salvador	5	10	1	3	7	1	3	-2	4	32	0	14	8 400	204 200	Cut off
SWAtHC	Bathymetry training course using RTK technology	3	5	1	1	6	5	5	0	5	31	2	15	14 400	218 600	
RSAHC	Technical Visit to Bahrain and Qatar	5	10	1	2	0	5	4	-1	4	30	0	16	9 700	228 300	
SEPRHC	Workshop on Bathy Database	3	5	1	0	7	5	5	-1	5	30	2	17	22 000	250 300	
EAHC	Use of GNSS for tide correction for survey	3	5	5	0	6	1	5	0	4	29	2	18	16 760	267 060	
EAHC	Lidar and Satellite Derived Bathymetry Workshop	3	5	5	0	6	0	5	0	5	29	2	19	16 760	283 820	
NIOHC	Advanced Chart Production (Bangladesh)	3	1	1	4	10	1	5	0	4	29	3	20	8 500	292 320	
SEPRHC	Workshop offshore surveys (geophysical analysis and identification of seamounts)	3	5	1	0	7	3	5	0	5	29	2	21	29 385	321 705	
SWAtHC	Digital Photogrammetry with satellite images	3	5	1	1	6	3	5	0	5	29	2	22	26 200	347 905	
MBSHC	Workshop on Technical Aspects of Maritime Boundaries	3	1	5	0	6	3	5	0	5	28	4	23	16 120	364 025	
NIOHC	Advanced Chart Production (Myanmar)	3	1	1	4	10	0	5	0	4	28	3	24	8 500	372 525	
SWPHC	Solomon Islands Nautical Cartographer Development	3	1	1	3	10	3	5	-2	4	28	3	25	8 000	380 525	
RSAHC	Basic ENC & ENC Production	3	1	3	4	1	3	4	0	4	23	3	26	14 940	395 465	
SWAtHC	Data management WORKSHOP	3	1	1	0	6	1	5	-2	5	20	3	27	19 500	414 965	
SWPHC	PNG Hydrographic Risk Assessment	5	10	1	5	10	0	5	0	-17	19	0	28	100 000	514 965	
MACHC	Basic Hydrographic Survey Course	3	5	5	0	7	0	4	-1	-5	18	2	29	0	514 965	Ph 2 for non-MS

INTERNATIONAL HYDROGRAPHIC ORGANIZATION
CAPACITY BUILDING SUB-COMMITTEE
CAPACITY BUILDING MANAGEMENT PLAN 2017

RHC	Project Name	1	2	3	4	5	6	7	8	9	Total	Phase	Priority	Resources	Sum	Observation
IHO/ROK	ROK Category A Programme											2		184 000	184 000	ROK earmarked
IHO/ROK	Trainer for Trainer - Basic Hydrography											2		60 000	244 000	ROK earmarked
IHO/ROK	ROK Category B Programme (third phase)											3		60 000	304 000	ROK earmarked
Japan	Nippon Chart Project											3		195 000	499 000	Nippon earmarked
EAtHC	MSI E-learning guided sessions.	3	10	5	0	10	3	5	0	5	41	1	1	2 600	2 600	Funded
EAtHC	Technical visit to Gambia	3	10	1	0	10	5	5	0	5	39	0	2	5 000	7 600	Funded
MACHC	MSI Course	3	10	5	3	7	5	4	-2	4	39	1	3	16 027	23 627	Funded
NIOHC	MSI (training on establish of MSI structure, basic MSI pro	3	10	5	3	7	5	4	-2	4	39	1	4	21 974	45 601	Funded
SAIHC	MSI Course (3 days)	3	10	5	3	7	5	3	-1	4	39	1	5	14 859	60 460	Funded
SWPHC	SW Pacific Region Industry Survey Project	5	5	1	5	10	1	5	0	5	37	2	6	30 000	90 460	Funded
SWPHC	MBES training for Fiji	3	5	1	5	8	5	5	0	5	37	2	7	11 000	101 460	Funded
MACHC	Seminar on Raising Awareness of Hydrography	5	10	5	0	6	5	4	-3	3	35	0	8	15 500	116 960	Funded
EAtHC	HydroMOWCA study follow-up	3	5	5	0	10	1	5	0	5	34	0	9	15 000	131 960	Funded
MBSHC	Workshop on ENC production and distribution	3	1	3	0	7	5	5	5	5	34	3	10	9 080	141 040	Funded
EAtHC	E-learning on specifications for hydrographic surveys	3	5	5	0	10	0	5	0	5	33	2	11	30 000	171 040	Funded
NIOHC	Technical Visit to Government high authorities of Seyche	5	10	1	4	6	3	4	-2	2	33	0	12	8 000	179 040	Funded
EAHC	Hydrographic Survey for Disaster Management and Relie	3	5	5	0	6	3	5	0	5	32	2	13	16 760	195 800	Funded
MACHC	Technical Implementation Visits to Dom. Republic and El	5	10	1	3	7	1	3	-2	4	32	0	14	8 400	204 200	Funded
SWAtHC	Bathymetry training course using RTK technology	3	5	1	1	6	5	5	0	5	31	2	15	14 400	218 600	Not funded yet
RSAHC	Technical Visit to Bahrain and Qatar	5	10	1	2	0	5	4	-1	4	30	0	16	9 700	228 300	Not funded yet
SEPRHC	Workshop on Bathy Database	3	5	1	0	7	5	5	-1	5	30	2	17	22 000	250 300	Not funded yet
EAHC	Use of GNSS for tide correction for survey	3	5	5	0	6	1	5	0	4	29	2	18	16 760	267 060	Not funded yet
EAHC	Lidar and Satellite Derived Bathymetry Workshop	3	5	5	0	6	0	5	0	5	29	2	19	16 760	283 820	Not funded yet
NIOHC	Advanced Chart Production (Bangladesh)	3	1	1	4	10	1	5	0	4	29	3	20	8 500	292 320	Not funded yet
SEPRHC	Workshop offshore surveys (geophysical analysis and ide	3	5	1	0	7	3	5	0	5	29	2	21	29 385	321 705	Not funded yet
SWAtHC	Digital Photogrammetry with satellite images	3	5	1	1	6	3	5	0	5	29	2	22	26 200	347 905	Not funded yet
MBSHC	Workshop on Technical Aspects of Maritime Boundaries	3	1	5	0	6	3	5	0	5	28	4	23	16 120	364 025	Not funded yet
NIOHC	Advanced Chart Production (Myanmar)	3	1	1	4	10	0	5	0	4	28	3	24	8 500	372 525	Not funded yet
SWPHC	Solomon Islands Nautical Cartographer Development	3	1	1	3	10	3	5	-2	4	28	3	25	8 000	380 525	Not funded yet
RSAHC	Basic ENC & ENC Production	3	1	3	4	1	3	4	0	4	23	3	26	14 940	395 465	Not funded yet
SWAtHC	Data management WORKSHOP	3	1	1	0	6	1	5	-2	5	20	3	27	19 500	414 965	Not funded yet
SWPHC	PNG Hydrographic Risk Assessment	5	10	1	5	10	0	5	0	-17	19	0	28	100 000	514 965	Not funded yet
RHC	Project Name	1	2	3	4	5	6	7	8	9	Total	Phase	Priority	Resources	Sum	
	Procedure 4 maximum score	5	10	5	5	10	5	5	0	5	50				1 013 965	

INTERNATIONAL HYDROGRAPHIC ORGANIZATION
CAPACITY BUILDING SUB-COMMITTEE
CAPACITY BUILDING MANAGEMENT PLAN 2017

In-kind

IMO	Regional Course in Basic Hydrography and Hydrographic Governance for Lusophone Africa
IMO	Regional Seminar on Safety of Navigation in the South West Pacific
Nippon	GEBCO Training Project

INTERNATIONAL HYDROGRAPHIC ORGANIZATION

Agreed 2017 CBWP

Updated: 05/07/2016

IHO WP Element: Capacity Building Assessment - Technical and High-Level Visits								
No.	Events	Responsible	Budget	Paid 2017	Paid 2018	Balance	Status	Resources
A-01	Technical visit to Gambia	EAtHC	5 000,00 €			5 000,00 €	Led by Dates	IHO
A-02	High-level visit to Seychelles	NIOHC	8 000,00 €			8 000,00 €	Led by Dates	IHO
A-03	Technical implementation visits to Dominican Republic and El Salvador	MACHC	8 400,00 €			8 400,00 €	Led by Dates	IHO
A-04	Technical visit to Bahrain and Qatar	RSAHC	9 700,00 €					Not funded yet
		-	31 100,00 €	0,00 €	0,00 €	21 400,00 €		

IHO WP Element: Capacity Building Provision - Technical Workshops, Seminars, Courses								
No.	Events	Responsible	Budget	Paid 2017	Paid 2018	Balance	Status	Resources
P-01	IHO-ROK Category "A" Programme	Secretariat	184 000,00 €			184 000,00 €	Led by Dates	ROK
P-02	ROK Category B Programme (third phase)	Secretariat	60 000,00 €			60 000,00 €	Led by Dates	ROK
P-03	IHO-Nippon Foundation CHART Project	Secretariat	195 000,00 €			195 000,00 €	Led by Dates	Nippon
P-04	Training for Trainers - Basic Hydrography	EAHC	60 000,00 €			60 000,00 €	Led by Dates	ROK
P-05	MSI E-learning guided sessions.	EAtHC	2 600,00 €			2 600,00 €	Led by Dates	ROK
P-06	MSI Course	MACHC	16 027,00 €			16 027,00 €	Led by Dates	ROK
P-07	MSI Course	NIOHC	21 974,00 €			21 974,00 €	Led by Dates	IHO
P-08	MSI Course	SAIHC	14 859,00 €			14 859,00 €	Led by Dates	IHO
P-09	SW Pacific Region Industry Survey Project	SWPHC	30 000,00 €			30 000,00 €	Led by Dates	IHO
P-10	MBES training for Fiji	SWPHC	11 000,00 €			11 000,00 €	Led by Dates	IHO

INTERNATIONAL HYDROGRAPHIC ORGANIZATION

Agreed 2017 CBWP

IHO WP Element: Capacity Building Provision - Technical Workshops, Seminars, Courses								
No.	Events	Responsible	Budget	Paid 2017	Paid 2018	Balance	Status	Resources
P-11	Seminar on Raising Awareness of Hydrography	MACHC	15 500,00 €			15 500,00 €	Led by Dates	IHO
P-12	HydroMOWCA study follow-up	EAtHC	15 000,00 €			15 000,00 €	Led by Dates	IHO
P-13	Workshop on ENC production and distribution	MBSHC	9 080,00 €			9 080,00 €	Led by Dates	IHO
P-14	E-learning on specifications for hydrographic surveys	EAtHC	30 000,00 €			30 000,00 €	Led by Dates	IHO
P-15	Hydrographic Survey for Disaster Management and Relief	EAHC	16 760,00 €			16 760,00 €	Led by Dates	IHO
P-16	Bathymetry training course using RTK technology	SWAtHC	14 400,00 €					Not funded yet
P-17	Workshop on Bathy Database	SEPRHC	22 000,00 €					Not funded yet
P-18	Use of GNSS for tide correction for survey	EAHC	16 760,00 €					Not funded yet
P-19	Lidar and Satellite Derived Bathymetry Workshop	EAHC	16 760,00 €					Not funded yet
P-20	Advanced Chart Production (Bangladesh)	NIOHC	8 500,00 €					Not funded yet
P-21	Workshop offshore surveys (geophysical analysis and identification of seamounts)	SEPRHC	29 385,00 €					Not funded yet
P-22	Digital Photogrammetry with satellite images	SWAtHC	26 200,00 €					Not funded yet
P-23	Workshop on Technical Aspects of Maritime Boundaries	MBSHC	16 120,00 €					Not funded yet
P-24	Advanced Chart Production (Myanmar)	NIOHC	8 500,00 €					Not funded yet
P-25	Solomon Islands Nautical Cartographer Development	SWPHC	8 000,00 €					Not funded yet
P-26	Basic ENC & ENC Production	RSAHC	14 940,00 €					Not funded yet
P-27	Data management WORKSHOP	SWAtHC	19 500,00 €					Not funded yet

INTERNATIONAL HYDROGRAPHIC ORGANIZATION

Agreed 2017 CBWP

IHO WP Element: Capacity Building Provision - Technical Workshops, Seminars, Courses								
No.	Events	Responsible	Budget	Paid 2017	Paid 2018	Balance	Status	Resources
P-28	PNG Hydrographic Risk Assessment	SWPHC	100 000,00 €					Not funded yet
P-29	Regional Course in Basic Hydrography and Hydrog. Governance for Lusophone Africa	EAtHC SAIHC	-	-	-	-	Led by Dates	In-kind from IMO
P-30	Regional Seminar on Safety of Navigation in the South West Pacific	SWPHC	-	-	-	-	Led by Dates	In-kind from IMO
P-31	GEBCO Training Project	UNH	-	-	-	-	Led by UNH, Durham, USA August 2017-August 2018	In-kind from Nippon*
	Subtotal of P (Provision)	-	982 865,00 €	0,00 €	0,00 €	681 800,00 €		

		2017	2018	
Total	1 013 965,00 €	0,00 €	0,00 €	703 200,00 €
IHO	185 573,00 €	0,00 €	0,00 €	185 573,00 €
ROK	322 627,00 €	0,00 €	0,00 €	322 627,00 €
Nippon	195 000,00 €	0,00 €	0,00 €	195 000,00 €
Not funded	310 765,00 €			
Region	Not funded	Funded	Total	
MBSHC	16 120,00 €	9 080,00 €	25 200,00 €	
EAHC	33 520,00 €	76 760,00 €	110 280,00 €	
EAtHC	0,00 €	52 600,00 €	52 600,00 €	
SEPRHC	51 385,00 €	0,00 €	51 385,00 €	
SWPHC	108 000,00 €	41 000,00 €	149 000,00 €	
MACHC	0,00 €	39 927,00 €	39 927,00 €	
SAIHC	0,00 €	14 859,00 €	14 859,00 €	
NIOHC	17 000,00 €	29 974,00 €	46 974,00 €	
RSAHC	24 640,00 €	0,00 €	24 640,00 €	
SWAtHC	60 100,00 €	0,00 €	60 100,00 €	
Secretariat	0,00 €	439 000,00 €	439 000,00 €	
Total	310 765,00 €	703 200,00 €	1 013 965,00 €	

**14th MEETING OF THE IHO CAPACITY BUILDING SUB-COMMITTEE
IHO-CBSC14
Abu Dhabi, UAE, 24-26 May 2016**

**LIST OF ACTIONS
(Updated 26 May 2016)**

N.	Action (Agenda item)	Responsible	Deadline	Status
1	Update the Membership and CB Coordinator for the USCHC (Capt. Brian Connan) and India (Cdr Amol G Merwade) (1)	Secretary	10 Jun 2016	
2	Provide the MSDIWG Work Plan 2016-2020 and draft C-17 to the meeting participants (3)	Secretary	30 Jun 2016	
3	Invite MSDIWG Chair to CBSC15 to present the MSDI (3)	Chair	15 Dec 2016	
4	Request to the SEPRHC to consider having permanent CBSC Member and CB Coordinator (5)	SEPRHC Representative	SEPRHC13	
5	Provide input about the bilateral direct support outside the CBWP in the reports to the CBSC meetings (5)	CBSC and CB Coordinators	CBSC15	Permanent
6	Investigate an additional field in the Country Information System (CIS) or other related database to assimilate the direct in-kind contribution from countries, institutions or industry (5)	IHB	1 Aug 2016	
7	Provide RHC Reports to CBSC meetings with the direct in-kind contribution (5)	CB Coordinators from BSHC, NHC, ARHC, NSHC and USCHC	CBSC15	Permanent
8	Liaise with Mexico for FOCAHIMECA issues and inform the SEPRHC and SWAtHC CB Coordinators (6)	MACHC CB Coordinator	CBSC15	
9	Reconsider within the IHO/Republic of Korea Programme Management Board (PMB) the Italian Category A and Category B programmes (6)	Chair, ROK and IHB	PMB7	
10	Provide a draft revised C-47 <i>Training Courses in Hydrography and Nautical Cartography</i> to the CBSC (6)	IHB	CBSC15	
11	Consider the draft revised C-47 <i>Training Courses in Hydrography and Nautical Cartography</i> (6)	CBSC	CBSC15	

N.	Action (Agenda item)	Responsible	Deadline	Status
12	Liaise with IMarEST to investigate synergies in e-learning courses and report back to the CBSC (6)	France	CBSC15	
13	Do an editorial amendment to the IHO CB Strategy, third paragraph of item 1, to read "... sectors and was adopted by the 5th Extraordinary International Hydrographic Conference." (7)	IHB	31 Aug 2016	
14	Provide an input to the IHO Strategic Plan to CBSC14 participants (7)	Chair	Done during the meeting	DONE
15	Liaise with national and regional donor agencies to get them involved in support of hydrographic development, and report back to the CBSC (7)	CBSC Members	CBSC15	
16	Provide the impact assessment questionnaire developed in the EAthC (7)	France	Done during the meeting	DONE
17	Develop a first draft questionnaire for the assessment of the impact of the CBWP (7)	Vice-Chair	15 Dec 2016	
18	Send the input to the Secretary to improve the draft CB Procedure 9 (8)	CBSC Members	30 Jun 2016	
19	Compile the input generated under Action 18 and send it to the Drafting Group (8)	Secretary	31 Jul 2016	
20	Send input to the Secretary on draft Procedure 10 (8)	CBSC Members and CB Coordinators	30 Nov 2016	
21	Resubmit the improved Procedure 10 to the CBSC (8)	Secretary	CBSC15	
22	Upload the amended Terms of Reference for CB Coordinators to the IHO website (8)	Secretary	30 Jun 2016	
23	Implement the draft CB Procedure 11 during the preparation of the 3-year WP (8)	CB Coordinators	1 Jul 2016	
24	Provide the feedback from the use of the draft Procedure 11 to the Secretary (8)	CB Coordinators	30 Sep 2016	
25	Update the draft CB Procedure 11 and submit back to the CBSC (8)	Secretary	CBSC15	
26	Send input to the Secretary on draft Procedure 12 (8)	CBSC Members	31 Nov 2016	
27	Incorporate the feedback from CBSC Members to the draft Procedure 12 and to re-submit it to the CBSC (8)	Secretary	CBSC15	
28	develop a proposal to be submitted to the IRCC8 (8)	Chair	IRCC8	
29	Develop a template for the 3-y WP and distribute to the CB Coordinators (8)	Secretary	13 Jun 2016	

N.	Action (Agenda item)	Responsible	Deadline	Status
30	Provide the 3-y WP to the CBSC Chair, considering Decision 18 (8)	CB Coordinators	1 Jul 2016	
31	Upload the approved amended CB Procedures 7 and 8 and the draft CB Procedures 9, 10, 11 and 12 to the IHO website (8)	Secretary	31 Aug 2016	
32	Add the IMO audit scheme questionnaire to the draft CB Procedure 9 (9)	Secretary	31 Jul 2016	
33	Add the link with the planned IMSAS audits (9)	Secretary	31 Aug 2016	
34	Include the MBSHC ENC Production Course in the 2017 CB Management Plan (9)	Secretary	Done during the meeting	DONE
35	Investigate the possibility to merge P-12 (SEPRHC) and P-16 (SWAtHC) for the provision of MB training and inform the CBSC (9)	SEPRHC and SWAtHC Members	30 Jun 2016	
36	Consider participation to the WWNWS8 meeting in Alesund (Norway) in September 2016 (9)	CB Coordinators	WWNWS8	
37	Liaise with the WWNWS-SC Chair to improve the assessment of the MSI by the NAVAREA Coordinators and the reporting to the CBSC (9)	Chair	1 Dec 2016	
38	Upload the Updated 2016 CBWP to the IHO website (9)	Secretary	30 Jun 2016	DONE
39	Propose an amendment in the CB Procedure 4 to include reference to maritime boundaries and Law of the Sea (9)	Secretary	30 Sep 2016	
40	Confirm the CBSC16 dates and venue (12)	India	31 Oct 2016	
41	Send letter of thanks to the hosts for having hosted the CBSC14 Meeting (P)	Chair	Jun 2016	Permanent
42	Send letter of thanks to future host for offering to hold CBSC15 in 2015 (P)	Chair	Jun 2016	Permanent
43	Prepare and circulate draft minutes to all participants to CBSC14 (P)	Chair, Secretary	Jun 2016	Permanent
44	Provide comments to Chair on the draft minutes of the CBSC14 (P)	All	Jul 2016	Permanent
45	Issue final version of the CBSC14 Meeting report. Secretary to post in the IHO website (P)	Chair, Secretary	Aug 2016	Permanent
46	Issue CL on the outcomes of the CBSC14 (P)	Secretary	Aug 2016	Permanent
47	Send letters to the RHCs Chairs informing them of the approval or rejection of their	Chair	Jul 2016	Permanent

N.	Action (Agenda item)	Responsible	Deadline	Status
	submissions (P)			
48	Prepare Agenda, Annotated Agenda, Timetable and List of Documents and circulate them timely to all CBSC14 (P)	Chair, Secretary	Feb 2017	Permanent
49	Consider participation in the 8th Joint IMO/IHO/IOC/WMO/IALA/IAEA/FIG CB meeting (November 2016) (P)	Chair, IHB	Nov 2016	Permanent
50	Write to the RHC Chairs to remind the RoS submissions, highlighting the main topics: - Comply with Procedure 1 and 4 - Priority definition (1, 2, 3) - Spreadsheet with compiled values from RoS - Deadlines (P)	Chair	Dec 2016	Permanent
51	Provide summary reports for their respective region (P)	CB Coordinators	Apr 2017	Permanent
52	Inform the venue and dates of CBSC15 and invite the IHB to draft a Circular Letter to MSs (P)	Chair	Oct 2016	Permanent
53	Investigate the opportunities to promote the IHO CB activities and report back to CBSC (P)	CBSC Members	CBSC15	Permanent

**14th MEETING OF THE IHO CAPACITY BUILDING SUB-COMMITTEE
IHO-CBSC14
Abu Dhabi, UAE, 24-26 May 2016**

LIST OF DECISIONS

Agenda item 3

Decision 1: to approve the CBSC13 Report (*doc. CBSC14-03A*) and the updated List of Actions from CBSC13 (*doc. CBSC14-03B*).

Agenda item 4

Decision 2: to note the reports under agenda item 4 (*docs. CBSC14-04A* and *CBSC14-04B*).

Agenda item 5

Decision 3: to note the high level of engagement and capacity building activity being undertaken in the SWPHC region.

Decision 4: to note the increasing level of engagement in capacity building being undertaken in the United Arab Emirates (UAE).

Decision 5: to note the reports under agenda item 5.1 (*docs. CBSC14-05.1A, CBSC14-05.1B, CBSC14-05.1C, CBSC14-05.1D, CBSC14-05.1E1, CBSC14-05.1E2, CBSC14-05.1F, CBSC14-05.1G, CBSC14-05.1H, CBSC14-05.1I* and *CBSC14-05.1J*).

Decision 6: to approve the Closed 2015 CBWP (*doc. CBSC14-05.2*).

Agenda item 6

Decision 7: to note the reports under agenda item 6 (*docs. CBSC14-06A, CBSC14-06C, CBSC14-06F* and *CBSC14-06G*).

Agenda item 7

Decision 8: to encourage the CB Coordinators from MACHC, SWPHC and EAthC to get involved with donor agencies and to take part in World Bank Maritime Funding Meeting in October 2016 with funding provided by the IHO CB Admin Funds.

Decision 9: to provide the following guidance regarding the way to measure success:

- a) Subjective measures of success:
 - i. Improvement of hydrographic awareness
 - ii. Improvement of the provision of Marine Safety Information
 - iii. Improvement of hydrographic surveys
 - iv. Improvement of the ENC coverage
 - v. Improvement of the protection of the marine environment
- b) Objective success indicators:
 - i. Attraction of funding for the CBWP
 - ii. Number of courses and training provided
 - iii. Number of visits executed
 - iv. Number of students trained
 - v. Evolution of the phase status of each coastal states

Agenda item 8

Decision 10: to adopt the revision 1 of the CB Procedure 7

Decision 11: to adopt the revision 2 of the CB Procedure 8

Decision 12: to improve the current draft CB Procedure 9 before adoption.

Decision 13: to keep CB Procedure 10 as a draft and open to comments from CBSC Members and CB Coordinators.

Decision 14: to adopt the proposed amendments to the Terms of Reference for CB Coordinators.

Decision 15: to implement the draft CB Procedure 11 and to re-consider it during CBSC15.

Decision 16: to implement the draft CB Procedure 12 and to re-consider it during CBSC15.

Decision 17: to propose to IRCC the removal of all the SPIs and WPIs except SPI3 and propose a procedure to develop SPI3 based on the draft CB Procedure 11.

Decision 18: to instruct the CB Coordinators to elaborate the 3-year work plans with a clear description of the requests for support to MSDI activities and whenever available, with the non-IHO CB activities in the regions.

Decision 19: to note all the reports under agenda item 8 (*docs. CBSC14-08.4A, CBSC14-08.4B1, CBSC14-08.4B2, CBSC14-08.4C, CBSC14-08.7, CBSC14-08.8A, CBSC14-08.8B and CBSC14-08.8C*)

Agenda item 9

Decision 20: to substitute Lebanon by Azerbaijan for the high-level visit in activity A-04.

Decision 21: to condition the provision of funding for the technical visits to Timor-Leste and Cambodia to the provision of the reports conducted by EAHC in 2014.

Decision 22: to allocate additional 10 000 euros to activity P-02.

Decision 23: to add the IMO audit scheme questionnaire to the draft CB Procedure 9.

Decision 24: to adjust the 2016 CBWP activity P-11 to "MSI training".

Decision 25: to include the MBSHC ENC Production Course in the 2017 CB Management Plan.

Decision 26: to investigate the possibility to merge P-12 (SEPRHC) and P-16 (SWAtHC) for the provision of MB training in order to reduce the costs and increase the synergies, and to include MACHC participation.

Decision 27: not to approve the CB-NAVAREA Coordinators Workshop.

Decision 28: to approve the Updated 2016 CBWP (**Annex A**)

Decision 29: to approve the Finance Report (*doc. CBSC14-09.2*).

Decision 30: to maintain the expected 2016 balance (55 000 euros) to be used in 2017.

Decision 31: maritime boundaries and Law of the Sea are beyond phase 3 and the equivalent weight in Procedure 4 is the same for Phase 3.

Decision 32: to approve the 2017 CB Management Plan (**Annex B**).

Decision 33: to approve the Adopted 2017 CBWP (**Annex C**).

Agenda item 12

Decision 34: to hold CBSC15 in Paramaribo (Suriname) from 7-9 June 2017, back-to-back with

IRCC9 (12-14 June 2017), subject to the confirmation from IRCC.

Decision 35: to hold CBSC16 in Goa (India) in May/June 2018 subject to confirmation by India.

Decision 36: to hold CBSC16 in Italy in case India is not able to host the meeting.

Decision 37: to hold CBSC17 in Italy in May/June 2019 subject to Italy not hosting it in 2018.

Agenda item 13

Decision 38: to adopt the List of Actions (**Annex D**) and List of Decisions (**Annex E**)