

IHO CAPACITY BUILDING STAKEHOLDERS' SEMINAR
05-06 March 2014, IHB, Monaco

Technical Workshops, Seminars & Short Courses

(Lessons Learned by RHC Representative)

KHOA of MOF, Republic of Korea

EAHC (East Asia Hydrographic Commission)



- EAHC (1972~) : China, Indonesia, Japan, Republic of Korea, Philippines, Thailand, and DPRK, Malaysia and Singapore



Technical Workshops, Seminars & Short Courses of EAHC



- The EAHC has hosted seminars, workshops and short-term CB training courses every year since 1992 to ensure the safety of navigation in the EAHC region (<http://home.eahc.asia/seminar.htm>).
- 2~3 days seminar on Geodetic System for Nautical Charts (1993), ENC Technology (1994, 1995, 1996), Navigational Warning in NAVAREA XI (1994), Hydrographic Survey Technology (1998, 1999), ENC Technical Workshop (1999), Hydrographic Seminar (1999), Introduction of ENC (2002), International ENC Seminar (2005) and International Symposium on Improvement of ENC Coverage and Availability (2007, 2009) were carried out under the initiative of JHD after 2 weeks Hydrographic Seminar in 1992.
- For 4~5 days of CB courses and seminars on Ocean Mapping Multibeam Course (2006), ENC Seminar on Data Protection Scheme and Management System (2007), ENC Technical Seminar (2008), ENC Workshop (2008), Quality Assurance of Multibeam Surveying and Data Processing (2008, 2009), Quality Assurance of ENC Production (2008, 2009, 2011) were delivered from 2006.
 - ROK's contribution of about 100,000 \$ earmarked for the IHO/ROK Program of Technical Cooperation from 2006 supported longer additional EAHC CB programs from 2007.

Technical Workshops, Seminars & Short Courses of EAHC

- 3-days of ENC Quality Assurance course in 2009 to help the trainees develop the knowledge and skills to teach in their home countries.
 - A good model case for TFT (Training for Trainers) program of the EAHC.



Technical Workshops, Seminars & Short Courses of EAHC



● Date and Venues of Programmes funded by the IHO/ROK Program of Technical Cooperation since 2008

No.	Year	Subject	Date and Venue
1	2008	Quality Assurance of Multi beam Surveying and Data Processing	16-19 June 2008 / Singapore
2		Quality Assurance of ENC Production	4-6 November 2008 / Pattaya, Thailand
3	2009	Quality Assurance on Multi beam Surveying and Data Processing	18-21 August 2009 / Philippines
4		ENC Quality Assurance Course	25-27 August 2009 / Philippines
5	2010	Technical Aspects of Maritime Boundaries, Baselines and the Extended Continental Shelf Course	15-19 November 2010 / Bangkok, Thailand
6		Marine Cartography and ENC Production and Quality Assurance Course	23-26 November 2010 / Hai Phong, Vietnam
7	2011	Database Design and Management course	20-24 June 2011 / Bangkok, Thailand
8		ENC Production and Quality Assurance course	5-8 July 2011 / Jakarta, Indonesia
9		Multi-beam Survey and Side Scan Sonar course	11-14 October 2011 / Singapore
10	2012	Workshop on Tides and Water Level for Hydrographic Survey	18-22 June 2012 / Bangkok, Thailand
		Workshop on Seabed Classification	25-29 June 2012 / Kuala Lumpur, Malaysia
11	2012	Workshop on Database Design and Management	5-9 November 2012 / Incheon, Korea
12		Workshop on Technical Aspects of Maritime Boundaries, Baselines and the Extended Continental Shelf	19-23 November 2012 / Ho Chi Minh City, Vietnam
13			
14	2013	Seminar on S-100	9-13 Sep 2013 / Busan, Korea
15		MSDI and Database Management	7-11 Oct 2013 / Singapore
16		Development and delivery of a basic Training for Trainers (TFT)	18-29 Nov 2013 / Busan, Korea

Technical Workshops, Seminars & Short Courses of EAHC



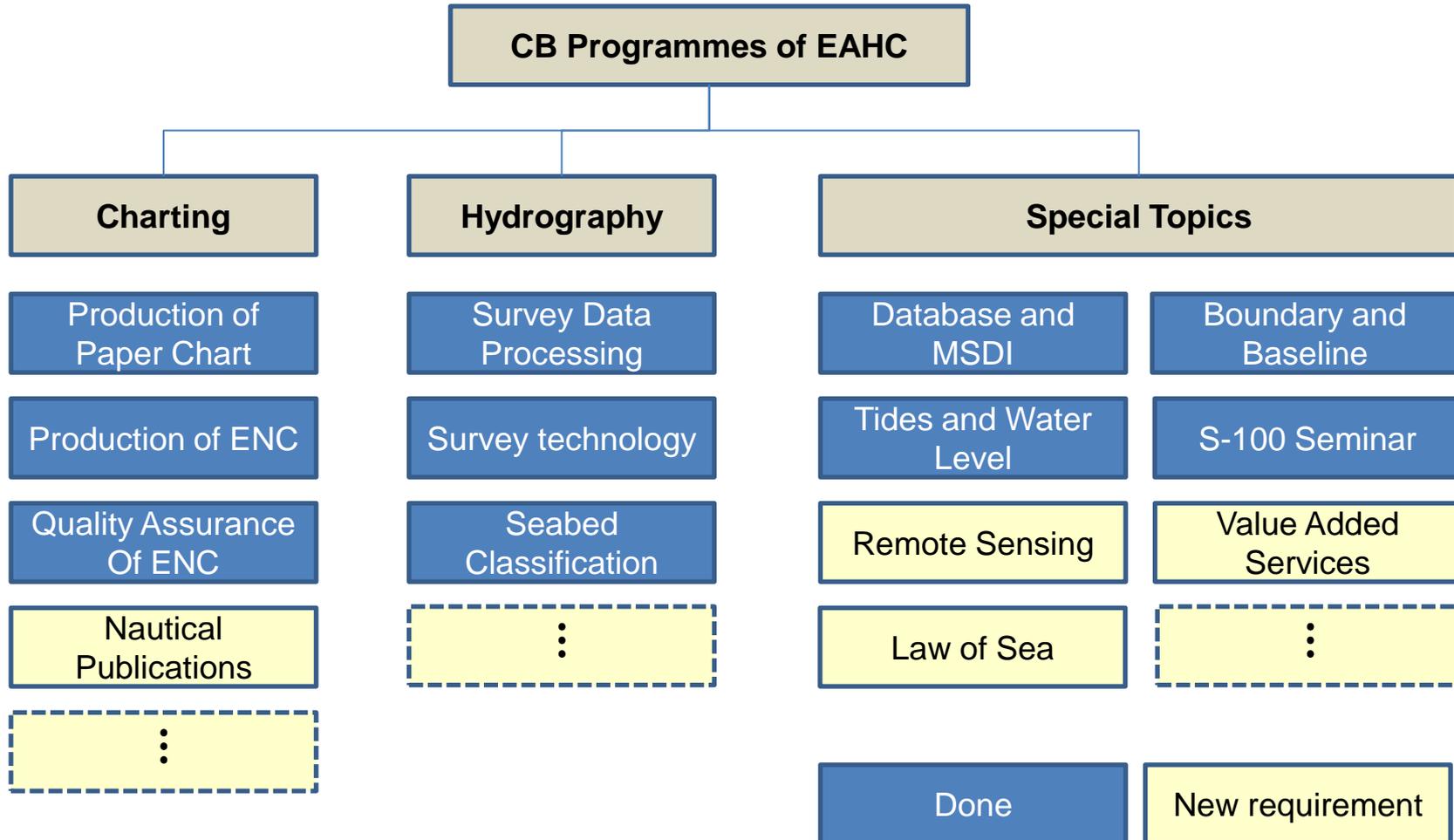
● Categorization of CB Programmes of EAHC

No.	Year	Subject	Categorization
1	2008	Quality Assurance of Multi beam Surveying and Data Processing	Survey Data Processing / QA
2		Quality Assurance of ENC Production	ENC Production / QA
3	2009	Quality Assurance on Multi beam Surveying and Data Processing	Survey Data Processing / QA
4		ENC Quality Assurance Course	ENC Production / QA
5	2010	Technical Aspects of Maritime Boundaries, Baselines and the Extended Continental Shelf Course	Boundary and Baseline
6		Marine Cartography and ENC Production and Quality Assurance Course	Paper/ENC Production / QA
7	2011	Database Design and Management course	Database and MSDI
8		ENC Production and Quality Assurance course	ENC Production / QA
9		Multi-beam Survey and Side Scan Sonar course	Survey technology
10	2012	EAHC Workshop on Tides and Water Level for Hydrographic Survey	Tides and Water Level
11		EAHC Workshop on Seabed Classification	Seabed Classification
12		EAHC Workshop on Database Design and Management	Database and MSDI
13		EAHC Workshop on Technical Aspects of Maritime Boundaries, Baselines and the Extended Continental Shelf	Boundary and Baseline
14	2013	Seminar on S-100	IHO Standard
15		MSDI and Database Management	Database and MSDI
16		Development and delivery of a basic Training for Trainers (TFT)	Paper/ENC Production

Technical Workshops, Seminars & Short Courses of EAHC

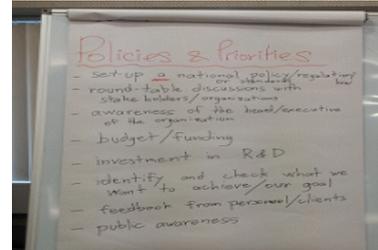
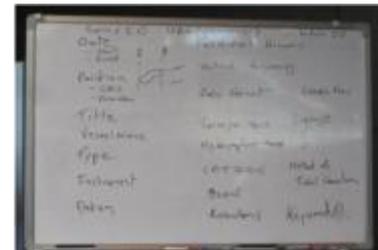


● Categorization of CB Programmes of EAHC



● Overview

- Title of Activity : Workshop on Database Design and Management
- No. of Participants / Countries : 19 / 9
- Venue and Date : Incheon, 5~9 November, 2012
- Host Country : Republic of Korea
 - Organized by KHOA (Korea Hydrographic Oceanographic Administration)
 - Supported by IHO/ROK Program of Technical Cooperation



● List of Lecturers

No.	Country	Name	Designation-Organizaton
1	UK	Mr. John Pepper	Consultant / Director, Ocean Wise Ltd.
2	UK	Mr. Mike Osborne	Consultant / Director, Ocean Wise Ltd.
3	Canada	Mr. William Siddall	Technical Support Consultant, CARIS
4	Canada	Mr. Jeremy Nicholson	Customer Service Manager, CARIS

● Outcomes

- The practical application sessions gave the students experience and understanding in hydrographic database and other relevant topics.
- Group work in presentations and discussions encouraged the fruitful interchange of ideas and opinions, which allowed the participants to learn from one another.
- Advanced national and regional maritime spatial data infrastructures through emphasizing the importance of hydrographic database as a crucial part of the MSDI and the provision of theoretical and practical training in designing and managing database.

● Future Considerations

- The outcome dependent on the quality and strengths of the instructors.
- Suggested to be a long-term program and consistently offered in the future.
- Above all, the workshop fosters the development and maintenance of cooperative relationships among member states.

● Overview

- Title of Activity: IHO Universal Hydrographic Data Model (S-100) Seminar
- No. of Participants / Countries : 24 / 11
- Venue and Date : Busan, 09~13 September 2013
- Host Country : Republic of Korea
 - Organized by KHOA (Korea Hydrographic Oceanographic Administration)
 - Supported by IHO/ROK Program of Technical Cooperation



● List of Lecturers

No.	Country	Name	Designation-Organizaton
1	U.S.A	Dr. Lee Alexander	Research Associate Professor, Univ. of New Hampshire
2	Germany	Mr. Jens Schroeder- Fuerstenberg	Head of Nautical Publications/Nautical Archive, BSH
3	Canada	Mr. Eivind Mong	International affairs specialist, Jeppesen Marine

● Outcomes

- Participants from each nation shared their national ENC production system and present condition of ENC.
- Allowed the understanding of development of S-100 and other IHO related activities through emphasizing the importance of S-100 standard.
- Greatly dependent on the quality and strengths of the instructors.

● Future Considerations

- A long-term program and consistently offered in the future.
- Seminar fosters the development and maintenance of cooperative relationships among member states.

Discussion (MSDI, S-100)



- Regarding the report submitted to the IHB on completion of the EAHC CB Workshop, feedback of the trainees was collected and included in the report. However, that of the instructors was not surveyed.

- As a host country of a short-term course, the ROK would like to share the following perspectives:
 - The different number of instructors required may vary depending on each short-term course.
 - It is often difficult to decide how much each instructor will need to be paid.
 - In terms of short-term courses, payment of lecturers' fees is made only after a host country submits a report and receipts to the IHB. This procedure may need to be revised to fast track the process.
 - As a significant amount of expenses (lecturers' fees, airfares, accommodation, meals, etc.) is required in hiring trainers from outside an RHC, RHCs will need to find out how to build a pool of trainers in each RHC region.

● Overview

- Title of Activity : Development and Delivery of a Basic Training For Trainers (TFT)
- No. of Participants / Countries : 20 / 9
- Venue and Date : Busan, 18~29 November, 2013
- Host Country : Republic of Korea
 - Organized by KHOA (Korea Hydrographic Oceanographic Administration)
 - Supported by IHO/ROK Program of Technical Cooperation



Short Courses – TFT



● List of Lecturers

No.	Country	Name	Designation-Organizaton
1	UK	Mr. Chris Thorne	Geographic & Data Acquisition Manager, UKHO
2	UK	Mr. Keith Swan	Digital Standards Technical Officer, UKHO

- The EAHC developed the Training for Trainers (TFT) programme to solve **the language related problems** that occur due to the use of English in the training program, as well as to deal with the problems of member states in East Asia, such as the increasing number of **job reassignment, turnover and resignation** among hydrography engineers.
- The **Concept** of Training for Trainers is to develop **training technique** and **teaching material** for the selected representatives from the EAHC member states to work as an efficient trainer in hydrography, whose teaching will be in one's native language.
- In accordance with the results from the EAHC meeting, the level of training for the **minimal work performance** is called **Basic Training**. It is decided that the TFT shall be intended for the application of Basic Training.

● Outcomes

- MSs and non-MS of EAHC hosted over 150 trainees to 14 CB Programmes since 2008
- Generally, participants were happy with the CB Programme of EAHC
- Additionally, strengthen their relationships and share their cultures.
- Furthermore, the host countries will have more benefits by having many participants attending the workshops.

● Future Considerations

- As the number of CB Programmes for RHCs is dependent on the availability of the IHO CB Fund, it is difficult to ensure long-term stability in the delivery of programmes required by an RHC.
- As many of the workshops approved by the CBSC are less than one week, it is often too short to include any practical sessions, and less efficient.
- In terms of expenses incurred from hosting a workshop, airfares are paid by the IHB directly. However, other expenses currently need to be paid by the host country first and then later reimbursed. This could be a burden on the host country.