



**KHOA**

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  |      | 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

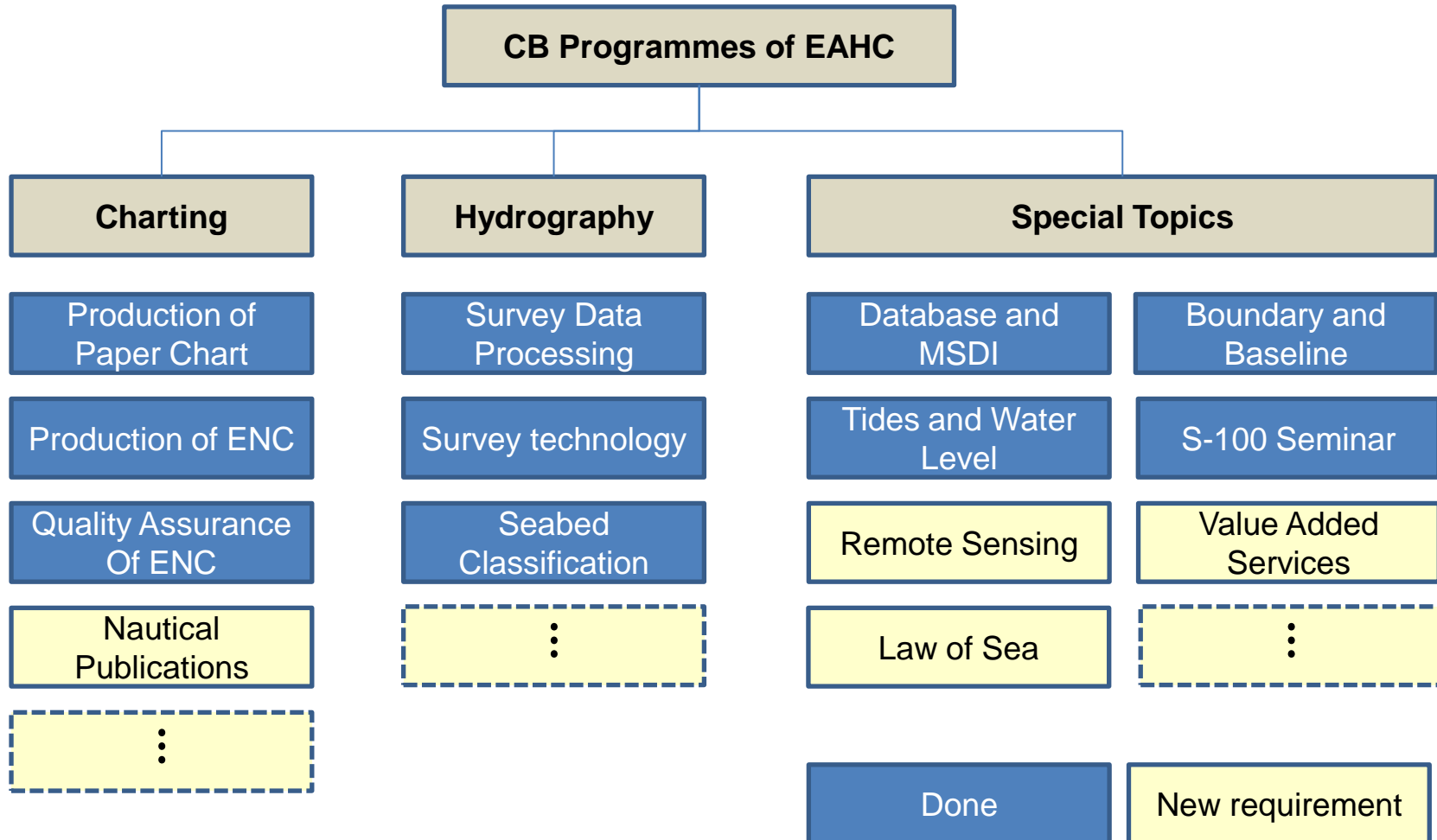


## ● Categorization of CB Programmes of EAHC

| 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

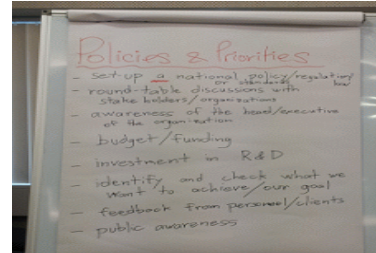
## ● Categorization of CB Programmes of EAHC





## ● 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.

# Short Courses – S-100 Seminar

## ● 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



# Short Courses – S-100 Seminar



## ● List of Lecturers

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