

INTERNATIONAL HYDROGRAPHIC ORGANIZATION
CAPACITY BUILDING SUB COMMITTEE
REPORT FROM SINGAPORE

Summary Sheet

Course Title: Marine Spatial Database Infrastructure

Host Country: Singapore

Venue: Seacare Hotel

Date: 7-11th October 2013

Organised by: Maritime and Port Authority of Singapore

Supported by: International Hydrographic Bureau, OceanWise, Esri Inc

No of participants/countries: 16/10

Total Cost: Euros \$20, 515.47

Executive Summary

Under the East Asia Hydrographic Commission (EAHC) Capacity Building Programme, sponsored by the International Hydrographic Bureau (IHB), the Marine Spatial Database Infrastructure (MSDI) was held in Singapore, Seacare Hotel, from 7 to 11 October 2013.

The event was organised and hosted by the Maritime and Port Authority of Singapore.

16 participants from the 8 regional Member States, namely China, Indonesia, Japan, Malaysia, Republic of Korea, The Philippines, Singapore and Thailand attended, including participants from Brunei Darussalam and Vietnam, who are pending IHO membership. (Refer to Annex 1 for the list of participants)

The training was delivered in 2 parts; the first 2.5 days was theoretical, conducted by Dr Mike Osborne and Mr John Pepper from Oceanwise, and the remaining 2.5 days was on the practical aspects, conducted by Mr Lee Brinton from Esri Inc.

Participants shared with one another on the nation's status of National Spatial Database Infrastructure (NSDI). It was found that although many countries have

embarked on NSDI, they were at the initial stages due to obstacles like insufficient training and understanding of SDI, fear of compromising national security, lack of funding and commitment. Hence, the course was relevant in imparting knowledge.



(Clockwise from top: Mr Haji Julaihi bin Haji Lamat, Mr Park Bong Seok, Lt Kamonchai Pragobjinda, Lt Kamaruddin bin Yusoff, Mr Lim Kar Wooi, Mr Indragiri Yani Wardhono, Mr Chen Lei, Mr Muhammad Akbar bin Paimin, Mr Haji Asrahwi bin Haji Ahmad Bujang, Ms Kermaine Sia, Mr Wu Lingzhi, Ms Nguyen Thi Quoc Anh, Mr Wang Yukai, Mr Lee Brinton, Dr Mike Osborne, Mr Jamie Chen, Mr John Pepper, Mr Yosuke Niimura, Mr Jonathan Pason and Mr Lee Ho Jeong.)

Course Objectives

The objectives of this training are

- to understand the importance of Spatial Database Infrastructure (SDI)
- the 4 fundamentals that made up SDI; policy and governance (people), technical standards, information systems (ICT) and geographic content (data and metadata)
- how these components integrate to drive efficiencies within hydrographic offices (HOs), both nationally and internationally
- to understand more on designing and managing a systematic database for hydrographic and relevant data
- to understand the need for ISO 19100 and the Hydrographic standards S100
- to have a practical understanding of the value and benefit of good data management and database design
- to have knowledge of the available IHO resources online

Feedback and Budget

The course was well received and the post course evaluation can be found in Annex 3.

The total expenditure is 20, 515.47 Euros, which is within the 21, 120.00 Euros sponsored by IHB. Esri Inc waived lecturer's training fees, and the exchange rate

was based on the XE Currency Converter (Annex 2.6). A detailed breakdown of expenses is found in Annex 2.

The breakdown of costs is as below:

Breakdown of expenditure						
Item description	Amount	Paid by	Charged to IHB	Rate	in Euros (€)	Remarks
Flights of Member states	SGD \$7,506.70	MPA	✓	0.60	4504.02	Annex 2.1
Flights for Oceanwise	GBP £1,621.47	Oceanwise		1.20	1945.76	Annex 2.2
Training	Euros € 3,000.00		✓	1.00	3000.00	
Flights for Esri	USD \$1,500.40	Esri		0.74	1110.30	Annex 2.3
Accommodation and Rental of Conference Room and facilities	SGD \$14,024.31		✓	0.60	8414.59	Annex 2.4
Rental of Computer Equipment	SGD \$2,568.00	MPA		0.60	1540.80	Annex 2.5
Total					20515.47	

Conclusion

During the course, participants were grouped into 4 to a) develop a conceptual model for Database, b) Data Modelling and Specs Development, c) Obstacles to SDI.

At the end of the course, participants have a clearer idea on SDI and its 4 components. Out of the 4 components, policy and governance (people) is the most important as it is the driving factor that integrates the 4 components.

After note

On the last day of the training, the Maritime and Port Authority of Singapore invited participants and lecturers to the Hydrographic Office at PSAB.

A video on the Singapore Hydrographic department structure, equipment, processing and products was presented, after which the participants were brought around the department for a short tour.



Site visit to MPA Hydrographic Department after the end of the course

The Maritime and Port Authority of Singapore would like to express thanks to the International Hydrographic Office and Chairman of the East Asia Hydrographic Commission, for giving member states and to-be member states an opportunity to learn and train together. It is an honor hosting the MSDI course, and MPA look forward to future capacity building programmes.

Reported by:
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