

**INTERNATIONAL HYDROGRAPHIC  
ORGANIZATION CAPACITY BUILDING  
COMMITTEE**



**The recognized S8 (Carto) Category B Marine  
Geospatial Information Program**

**REPORT**

**July 2017**

**Korea Hydrographic and Oceanographic Agency**

# SUMMARY SHEET

**Title of the Activity:** The recognized S8 (Carto) Category B Marine Geospatial Information Program

**Host Country:** Republic of Korea

**Venue / Date:** Korea Hydrographic and Oceanographic Agency, Busan, Republic of Korea / 3 July - 28 July, 2017

**Organized by:** Korea Hydrographic and Oceanographic Agency (KHOA)

**Supported by:** IHO

**No. of participants/countries:** 8 / 6 (4 person supported by IHO)

**Costs:** Euros

## 1. SUMMARY REPORT

IHO S8 Category “B” Marine Geospatial Information Programme sponsored by the Republic of Korea will be delivered in a 3-year cycle, and a total of 8 participants, including 4 participants sponsored by the IHO Capacity Building Fund and additional 4 participants supported by ROK, have completed Phase 3.

Phase 3 of a Marine Geospatial Information Program which is one of the 2017 IHO Capacity Building programmes was taken place at Korea Hydrographic and Oceanographic Agency (KHOA), Busan, ROK, from 3 July to 28 July.

Participants taking part in Phase 3 learned marine environment physical & legal issues, remote sensing for hydrographers, raster chart production with practical exercises. They also understood how to use tools and the contents of software for chart production through practical exercises based not only on paper charts but on digital charts. In this way, they were trained to understand and visualize Electronic Navigation Charts and developed their ability to use basic GIS software.

## 2. VENUE, DATES AND PARTICIPANTS

The course was taken place at the training room of KHOA, 3<sup>rd</sup> July – 28<sup>th</sup> July 2017. 8 participants attended the course, including 4 trainees from support of IHO CB, and 4 trainees from additional support from ROK. The list of participants appears as Annex 1.

## 3. PERFORMANCE DETAIL OF PHASE 2

Dates		Lessons
2017-07-03	2017-07-07	Marine Environment Physical Characteristics & Legal Issues Marine Spatial Data Infrastructure
2017-07-10	2017-07-14	Remote Sensing for Hydrographers Raster Chart Production

		Spatial Data Infrastructure and The Marine Dimension of SDI
2017-07-17	2017-07-21	S-58 & Validation Checks
2017-07-24	2017-07-28	Final Exercise(Producing paper chart & ENC)

#### 4. TOTAL COST

Items	Amount
	Euro
Flights(4 students)	11,692
Accommodation(4 students)	10,080
Meals	2,610
Lecturer fee Includes: - Training labor cost - Accommodation - Meals, visa and incidentals - Return airfare	33,000
Printing costs for training notes and Training aids	2,618
<b>Total</b>	<b>60,000 Euro</b>

#### 5. ANY OTHER ACTIVITIES

KHOA offered participants opportunities to board its hydrographic survey ship to help them understand essential elements of charts that are used for not only safety navigation but also various works during the Cat B “Marine Geospatial Information Programme training course. In addition, KHOA provided opportunities for participants to go sightseeing not only to keep in shape during their long term training course in a foreign country but also to promote friendship between participants. Moreover, participants took part in various activities such as visiting Tongyeong to experience Korean culture, and the Hyundai Heavy Industry to get an introduction on building huge vessels.

## ANNEX 1 – LIST OF PARTICIPANTS

### Students

NO.	Country	Name	Organization
1	Bahrain	Omar Alshaer	Hydrographic Survey Directorate
2	Ecuador	Edison Enrique Guaman Mejillones	INSTITUTO OCEANOGRAFICO DE LA ARMADA
3	Vietnam	Manh Dong Duy	VIETNAM MARITIME SAFETY South and North
4	Cuba	Vivian Hernandez Espinosa	Nautical Cartographic Agency
5*	Philippines	Fortunato Bancolo III	National Mapping & Resource Information Authority
6*	Philippines	Macayan Ruel	National Mapping & Resource Information Authority
7*	Korea(Rep.of)	KIM Suyu	Korea Hydrographic and Oceanographic Agency
8*	Korea(Rep.of)	JEONG Wonju	Korea Hydrographic and Oceanographic Agency

*\*Financial Supported by Republic of Korea*

### Lecturer

NO.	Country	Name	Organization
1	Portugal	Nuno Silva	IIC
2	Canada	Matt Ordower	IIC
3	Canada	Noelle Beaudoin	IIC
4	US	Chris Yeager	IIC