

**INTERNATIONAL HYDROGRAPHIC ORGANIZATION  
CAPACITY BUILDING SUB-COMMITTEE**



**EAHC-TRAINING COURSE ON TECHNICAL ASPECTS OF MARITIME  
BOUNDARIES, BASELINES AND EXTENDED CONTINENTAL SHELF**

**-REPORT-**

**JAKARTA, 11/2014**

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**INTERNATIONAL HYDROGRAPHIC ORGANIZATION  
CAPACITY BUILDING SUB-COMMITTEE**

**PROJECT DETAIL**

<b>Project Name:</b>	Training Course On Technical Aspects Of Maritime Boundaries, Baselines And Extended Continental Shelf
<b>Project Leader:</b>	Capt. Dyan Primana Sobarudin
<b>Project Leaders email/telephone :</b>	<a href="mailto:infohid@dishidros.go.id">infohid@dishidros.go.id</a> , <a href="mailto:dyanmaxp@gmail.com">dyanmaxp@gmail.com</a> , /+628129997043
<b>Contact Officer:</b>	Lt. Cdr. Qisthi Amarona and Lt. Cdr. Kalambo
<b>Contact Officer's email/telephone:</b>	<a href="mailto:subdispeta.dishidros@gmail.com">subdispeta.dishidros@gmail.com</a> , /+6281281212075
<b>Organizing institution/address:</b>	Indonesia Hydro-Oceanographic Services (Dishidros)/ Jalan Pantai Kuta V No.1 Ancol Timur Jakarta Utara Indonesia
<b>Organizing institution Bank Detail</b>	Name of Bank : <b>Mandiri Bank</b> Address : <b>KCP JKT ANCOL</b> Account Number : <b>119 000 100 7580</b> Name of Account Holder : <b>Bendaharawan PNBP Dishidros</b> SWIFT Code : <b>BEIIDJAA</b>
<b>Project commencement date:</b>	10 November 2014
<b>Project completion date:</b>	14 November 2014
<b>Venue:</b>	Discovery Ancol Hotel, Jakarta, Indonesia
<b>Instructors</b>	Professor Hyun Soo KIM (INHA University Korea), Ottokarl Büchschütz-Nothdurft (CARIS), Professor Sobar Sutisna (Indonesia Defense University), Octavino Alimudin (Indonesia Foreign Affairs Ministry), Capt. Dr. Trismadi (Dishidros)
<b>Number of participants/Countries:</b>	20 participants/10 countries
<b>Cost</b>	<b>€ 19,218.27</b>

## **1. REFERENCES**

- a. EAHC Circular Letter No. 13/2014 04 September 2014 about Invitation to The Training Course on The Technical Aspects of Maritime Boundaries, Baseline and Extended Continental Shelf.
- b. The Letter from Captain Jacinto M. Cablayan as Chairman East Asia Hydrographic Commission to Mr. Mustapha IPTES Director IHB, 5 September 2014, about budget € 19,000.00 for Training Course on Technical Aspects of Maritime Boundaries, Baselines and Extended Continental Shelf hosted by Indonesia and designation of Capt. Dyan Primana Sobarudin as Project Leader.

## **2. OBJECTIVES**

- a. To provide basic knowledge to the concerned persons, in particular member of EAHC, who are involved in maritime boundaries.
- b. To promote research capabilities in the field of maritime boundaries
- c. To understand and find reasonable and lawful ways for the settlement of maritime boundary problems
- d. To facilitate the opportunities for dialogue among the concerned persons in maritime boundaries

## **3. VENUE, DATES AND PARTICIPANTS**

The training was held in the Discovery Hotel, Ancol, Jakarta, Indonesia from 10-14 November 2014, in Kecapi room and Discovery II room. Total participants were 20, which consists of 8 participants were from EAHC member states, 3 participants were from Non-EAHC member states (Brunei Darussalam, Vietnam and Timor Leste) and 8 were local participants. There were 2 instructors and 3 guest instructors. All EAHC member states have participated by sending delegations, excluding Democratic People's Republic of Korea and China. Lists of participants and instructors are attached on **ANNEX 1**.

The accommodation and meals were provided for 2 instructors (Professor Hyun Soo KIM and Ottokarl Büchsenschütz-Nothdurft) and 11 foreign participants who were funded by CBSC/IHB. The other 3 instructors and 8 local participants were funded by Dishidros. 1 additional participant from Brunei Darussalam expenditure was covered by the government of Brunei Darussalam.

#### **4. COURSE CONTENT**

The Training Course was opened and closed by Indonesia Chief Hydrographer Commodore Dede Yuliadi . As part of IHO capacity building program, he mentioned that technical knowledge in maritime boundary delimitation is very important for everybody who serve in a hydrographic office, since one of the main duties of a hydrographic office is to deliver technical advises to its government in maritime boundary. He hoped to all participants to use this opportunity to explore further and deepened all aspects to the maritime boundary, and be able to deliver significant contribution in the future. This event was expected as a way to strengthen relationship and friendship between countries in the East Asia.

The course was highly specialized in nature with a mix of lectures and practical matters. The most crucial event of the course was a detailed boundary delimitation scenario which held in small teams in a mock arbitration.

Two main instructors were Prof. Hyunsoo Kim from Korea INHA University and Ottokarl (Otto) Büchsenschütz-Nothdurft from Support and Training Manager for CARIS BV Netherland. They both had shared extensive experiences across a diverse range of operational law of the sea issues, including cases of International Court of Justice (ICJ) and International Tribunal for the Law of the Sea (ITLOS) cases.

20 personal computers were used during the course with CARIS Low of The Sea (base editor) software installed for digital delimitation exercises. Generally, Prof. Kim had introduced and delivered the rules of UNCLOS'1982 related to determination of maritime boundaries. Additionally, Mr. Otto from CARIS had demonstrated and engaged with participants in practical implementation of drawing the lines from some case samples using the software.

Mr. Octavino Alimudin (Director for Political, Security and Territorial Treaties. Ministry of Foreign Affairs of the Republic of Indonesia) described in the first session about Law of The Sea development and its application for Indonesia. Professor Sobar Sutisna explained about the aspect of geodesy based on TALOS. Capt. Dr. Trismadi on behalf of Indonesian Chief Hydrographer delivered the role of hydrographic office in support of the delimitation of maritime boundaries.

Apart from class activities, a brief exposure to the Indonesian culture was also conducted. A city tour program by visiting Museum of Indonesia in Taman Mini Indonesia Indah was arranged during the course of training.

## **5. SYLLABUS OF PROGRAMME**

Syllabus of programme is attached on **ANNEX 2**.

## **6. FINANCE REPORT**

As per previous submission to IHB, most of expenditures were charged to CBSC/IHB in amount of 19000 Euro and the other expenses which not covered by IHB were Dishidros responsibility. The finance report to IHB shows only the detailed expenses of that 19000 Euro subject to reimbursement by CBSC/IHB.

The airline tickets of participants and instructors have been reimbursed by Dishidros on their arrivals in Jakarta. 11 airline ticket invoices and reimbursement receipts will be provided in this report that subject to reimbursement by CBSC/IHB. Invoices and receipts are attached on **ANNEX 3**.

The other expenses which will be submitted are accommodation fees for 13 people (11 participants and 2 instructors), 2 instructor allowances (Prof. Hyun Soo KIM and Ottokarl (Otto) Büchenschütz-Nothdurft) and 13 rented personal computer expenses. Accommodations were including hotel room, meals and fullboard meeting package. Remaining participants and other expenditures were funded by Dishidros. Highlighted participants who were sponsored by CBSC/IHB are attached on **ANNEX 3**.

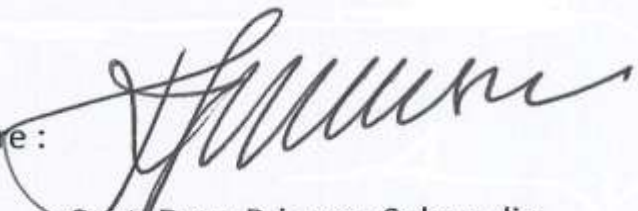
## 7. TRAINING EVALUATION BY QUESTIONNAIRE

Training evaluation was conducted at the end of the course by delivering questionnaire to get feedbacks from participants on some matters including: course content, course domestic, trainers, and personal outcome. The evaluation would become our input; hence improvements are able to be made in the future. Summary and copy of evaluation forms are attached on **ANNEX 4**.

## 8. CONCLUSION

The training course has been done successfully and every session was delivered by the instructors interestingly. During the course, most of the attendees engaged in the class, actively. Some of participants opined that the duration of the training needs to be extended to get all the materials to be understood clearly and to be more familiar with the application software.

However, most of the participants have sufficient knowledge to be developed further, in support their office in advising the government in maritime boundary delimitation, based on the spirit of friendship between East Asian countries. This spirit will support us in resolving every maritime boundary issues, also to strengthen the relationship and cooperation between East Asian countries. Photo of events and copy of certificate are attached on **ANNEX 5** and **ANNEX 6**.

Signature :   
Name : Capt. Dyan Primana Sobarudin

**EAHC-TRAINING COURSE ON TECHNICAL ASPECTS OF MARITIME BOUNDARIES,  
BASELINES AND EXTENDED CONTINENTAL SHELF**

**Jakarta 10-14 November 2014**

**LISTS OF PARTICIPANTS**

<b>No</b>	<b>Name</b>	<b>Organization</b>	<b>Remark</b>
1	Ms. Akane Miyazawa	Hydrographic and Oceanographic Department, Japan Coast Guard	Sponsored by CBSC fund
2	Mr. Jonathan T. Pason	National Mapping and Resources Information Authority, Philippines	Sponsored by CBSC fund
3	Mr. Warongrit Hongprasith	Hydrographic Department- Royal Thai Navy	Sponsored by CBSC fund
4	Mr. Park Bong Seok	Korea Hydrographic and Oceanographic Administration	Sponsored by CBSC fund
5	Mr. Thai Low Ying-Huang	Maritime and Port Authority of Singapore	Sponsored by CBSC fund
6	Mr. Ahmad Taqiuddin Bin Hadi	National Hydrographic Centre, Malaysia	Sponsored by CBSC fund
7	Mr. Jose Manuel Gomes	Republic Democratic Timor Leste Marine Police	Sponsored by CBSC fund
8	Mr. Manh Duong Nguyen	Vietnam Maritime Safety	Sponsored by CBSC fund
9	Hajah Nona Lieza Binti Haji Yahya	Survey Department, Ministry of Development, Brunei	Sponsored by CBSC fund
10	Kpt Laut (T) Andry Novianto, ST	Indonesian Hydro-Oceanographic Office (Dishidros)	Sponsored by CBSC fund
11	Lettu Laut (KH) Candrasa Surya Dharma, S.Si	Indonesian Hydro-Oceanographic Office (Dishidros)	Sponsored by CBSC fund
12	Dk Azianty Binti Pg Haji Othman	Survey Department, Ministry of Development, Brunei	Sponsored by Brunei Darussalam Government
13	Ltk Laut (P) Nunung Suhartono	Naval Headquarter, Indonesia	Sponsored by Dishidros
14	Ltk Laut (P) Nanang Haryono	Naval Headquarter, Indonesia	Sponsored by Dishidros
15	Ltk Laut (KH) Adi Soetirto, SH	Naval Headquarter, Indonesia	Sponsored by Dishidros
16	Myr Laut (KH) M Firdaus Yusuf, ST	Hydro Oceanographic Naval School, Indonesia	Sponsored by Dishidros
17	Kpt Laut (E) Jaka Winanto, ST	Hydro Oceanographic Naval School, Indonesia	Sponsored by Dishidros
18	Kpt Laut (P) Aminanto, ST	DISHIDROS SURVEY FLEET	Sponsored by Dishidros
19	Kpt Laut (P) Yoyok Triono, ST	DISHIDROS SURVEY FLEET	Sponsored by Dishidros
20	Baskoro, SE, M.Si	National Border Management Agency of Indonesia	Sponsored by Dishidros



**EAHC-TRAINING COURSE ON TECHNICAL ASPECTS OF MARITIME BOUNDARIES,  
BASELINES AND EXTENDED CONTINENTAL SHELF  
Jakarta 10-14 November 2014**

**LISTS OF INSTRUCTORS**

<b>No</b>	<b>Name</b>	<b>Designation</b>	<b>Remark</b>
1	Prof. Kim Hyonsoo	INHA University ROK (ABLOS Member)	Sponsored by CBSC fund
2	Mr. Ottokarl (Otto) Büchenschütz-Nothdurft	CARIS Support and Training Manager, Netherland	Sponsored by CBSC fund
3	Mr. Octavino Alimudin, SH, LL.M	Director for Political, Security and Territorial Treaties. Ministry of Foreign Affairs of the Republic of Indonesia	Sponsored by Dishidros
4	Professor Ir. Sobar Sutisna, M.Surv, PhD	Defence University of Indonesia (ABLOS Member)	Sponsored by Dishidros
5	Dr. Ir. Trismadi, M.Si.	Head of Survey Division, Indonesian Hydro-Oceanographic Office	Sponsored by Dishidros

**EAHC-TRAINING COURSE ON TECHNICAL ASPECTS OF MARITIME BOUNDARIES,  
BASELINES AND EXTENDED CONTINENTAL SHELF  
Jakarta 10-14 November 2014**

**Syllabus Programme**

<b>Day 1 (Monday) 10 November 2014</b>			
<b>Time</b>	<b>Subject</b>	<b>Person in Charge</b>	<b>Remark</b>
08:45~09:15	<b>Registration</b>	Host	Dress code: Suit
09:15~09:45	<b>Opening and Welcoming</b> <ul style="list-style-type: none"> <li>▪ Opening Remarks by Indonesian Chief Hydrographer</li> <li>▪ Individual introductions</li> <li>▪ Group Photo</li> </ul>	Host	
09:45~10:00	Break for Coffee		
10:00~11:00	<b>Law of The Sea, Development and It's Application to Indonesia</b>	Mr. Octavino Alimudin Indonesia Foreign Affairs Ministry	
11:00~12:30	<b>Introduction and Course Overview</b> <ul style="list-style-type: none"> <li>▪ Aim and objectives of the Course</li> <li>▪ Introduction to the UN Convention on the Law of the Sea (UNCLOS)</li> </ul>	Professor Hyunsoo KIM	
12:30~13:30	Break for Lunch		
13:30~15:30	<b>Baselines-I</b>	Professor Hyunsoo KIM	
15:30~15:45	Break for Tea		
15:45~17:00	<b>Baselines-II</b>	Professor Hyunsoo KIM	
<b>Day 2 (Tuesday) 11 November 2014</b>			
<b>Time</b>	<b>Subject</b>	<b>Person InCharge</b>	<b>Remark</b>
08:30~10:00	<b>Application of Modern Geodesy in LOSC</b>	Professor Sobar Sutisna	Dress code: Smart Casual
10:00~10:15	Break for Coffee		
10:15~12:30	<b>Maritime Zones, Legal Status of Maritime Features in Maritime Boundary Delimitation (MBD)</b>	Professor Hyunsoo KIM	
12:30~13:30	Break for Lunch		
13:30~15:30	<b>Impact of Relevant Circumstances on Maritime Boundaries</b>	Professor Hyunsoo KIM	
15:30~16:00	Break for Tea		
16:00~17:00	<b>The Extended Continental Shelf and UNCLOS</b>	Professor Hyunsoo KIM	

<b>Day 3 (Wednesday) 12 November 2014</b>			
<b>Time</b>	<b>Subject</b>	<b>Person in Charge</b>	<b>Remark</b>
08:30~09:30	<b>The Role of Hydrographic Office to Support Delimitation of Maritime Boundaries</b>	Capt. Dr. Trismadi	Dress code: Smart Casual
09:30~09:45	Break for Coffee		
09:45~12:30	<b>Relevant Cases Study regarding MBD-I, Relevant Cases Study regarding MBD-II</b>	Professor Hyunsoo KIM	
12:30~14:00	Break for Lunch		
14:00~end	<b>City Tour : Museum of Indonesia</b>	Host	
<b>Day 4 (Thursday) 13 November 2014</b>			
<b>Time</b>	<b>Subject</b>	<b>Person in Charge</b>	<b>Remark</b>
08:30~10:30	<b>Roles and Problems of Charts &amp; GIS in Delimitation</b> <ul style="list-style-type: none"> <li>▪ This would be used for the baseline creation from various data sources</li> <li>▪ Practical exercises would include: <ul style="list-style-type: none"> <li>• Import of data from different data source (Discussing also resolution changes)</li> <li>• Registering an image (Map resolution)</li> <li>• Picking points from a chart (Accuracy of the operation at large)</li> </ul> </li> </ul>	CARIS Support and Training Manager  Mr.Ottokarl (Otto) Büchenschütz-Nothdurft	Dress code: Smart Casual
10:30~11:00	Break for Coffee		
11:00~12:30	<b>Geodesy in Law of the Sea</b> <ul style="list-style-type: none"> <li>▪ This section should specifically focus on different lines and line types</li> <li>▪ How to define a baseline (Geodesic or Loxodrome)</li> <li>▪ What are the effects on (Envelope of Arcs and Median Lines)</li> <li>▪ Problems around definitions of boundaryLines (Examples of good and bad use of Geodesies and Loxodromes)</li> </ul>	CARIS Support and Training Manager  Mr.Ottokarl (Otto) Büchenschütz-Nothdurft	

12:30~14:00	Break for Lunch		
14:00~15:00	<b>Drawing of Median Line and Equidistance Line</b> <ul style="list-style-type: none"> <li>▪ This would be a demonstration of the various tools and discussing equitability <ul style="list-style-type: none"> <li>• Median/Equidistance <ul style="list-style-type: none"> <li>○ Creation Techniques / construction lines</li> <li>○ Identifying relevant points</li> <li>○ Simplification</li> <li>○ Relevant Coast and Area</li> </ul> </li> <li>• Equi-ratio</li> <li>• Half-Effect</li> <li>• Bisector</li> <li>• How to join them</li> </ul> </li> </ul>	CARIS Support and Training Manager  Mr.Ottokarl (Otto) Büchenschütz-Nothdurft	
15:00~15:30	Break for Tea		
15:30~17:00	<b>Introduction to Scenario &amp; Syndicate Work on Delimitation Scenario</b>  This will be a review of a delimitation scenario and participants will be able to import and create baselines and create basic Envelope of Arcs.	CARIS Support and Training Manager  Mr.Ottokarl (Otto) Büchenschütz-Nothdurft	
<b>Day 5 (Friday) 14 November 2014</b>			
Time	Subject	Person in Charge	Remark
08:30~10:00	<b>Syndicate Work on Delimitation Scenario</b>  This will be a continuation of the delimitation scenario and will focus on participants creating the median line / adjusted median line	CARIS Support and Training Manager, Mr.Ottokarl (Otto) Büchenschütz-Nothdurft	Dress code: Suit
10:00~10:30	Break for Coffee		
10:30~12:30	<b>Syndicate Presentations</b>  Participants to present results from the delimitation scenario	CARIS Support and Training Manager, Mr.Ottokarl (Otto) Büchenschütz-Nothdurft	
12:30~14:00	Break for Lunch - Friday Pray		
14:00~15:30	<b>Course Wrap-up Closing Ceremony</b> <ul style="list-style-type: none"> <li>▪ Certificate giving by Indonesian Chief Hydrographer</li> <li>▪ Closing Address by Indonesian Chief Hydrographer</li> </ul>	Host	

Annex 3

Finance Report

(IHB Only)



**EAHC Training Course on Technical Aspect of Maritime  
Boundaries Baselines and Extended Continental Shelf  
Discovery Hotel-Jakarta, 10-14 November 2014**

**EVALUATION QUESTIONNAIRE RESULTS FROM 20 PARTICIPANTS**

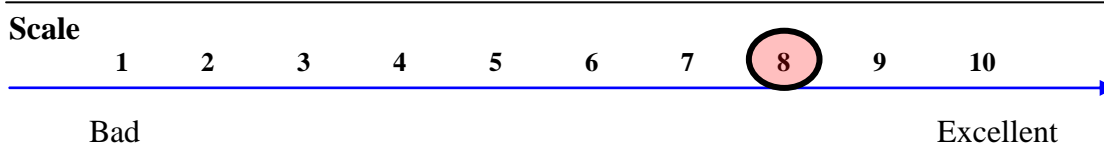
<b>Course content</b>	Strongly Agree	Agree	Slightly Agree	Disagree	Strongly Disagree
The information covered was new to me	6	10	3	1	
The course content was well organised	8	9	3		
The course content was too easy		8	7	4	
The handouts were useful	7	12		1	
The balance between theory and exercises was good	5	7	4	4	

<b>Course domestics</b>	Strongly Agree	Agree	Slightly Agree	Disagree	Strongly Disagree
The accomodations was good	9	11			
Duration of the course was adequate	2	13	4	1	
Exercise materials were fully equipped	3	11	4	2	
The training room was appropriate for the course	6	12	1		
The presentation screen was clearly visible	6	10	3		

<b>Trainers</b>	Strongly Agree	Agree	Slightly Agree	Disagree	Strongly Disagree
The trainers demonstrated full knowledge of the subject	9	8	3		
The trainers were easily understood	4	13	3		
The trainers were helpful	9	9	2		
The trainers were fully prepared	8	9	3		
The trainers encouraged all students to participate	5	11	3	1	

<b>Personal Outcomes</b>	Strongly Agree	Agree	Slightly Agree	Disagree	Strongly Disagree
I have a much better understanding on Technical Aspect Maritime Boundaries	3	14	3		
I believe the course met my requirements	5	11	4		

**Average of Overall course evaluation**



**TRAINING ON THE PICTURES**



Participants registration



Participants registration





Project Leaders (Capt. Dyan Primana S.) Speech in opening Ceremony



Opening Remark by Chief Hydrographer (Commodore Dede Yuliadi)





Participants representatives



Photo session with Dishidros Staffs



Mr. Octavino Alimudin Indonesia Foreign Affairs Ministry delivered Law of The Sea, Development and It's Application to Indonesia



Class situation



Prof. KIM Hyun Soo explained about baselines



Another session from Prof. KIM





Prof. Sobar Sutisna delivered subject Application of Modern Geodesy in LOSC



On behalf of Chief Hydrographer, Capt. Dr. Trismadi delivered subject  
The Role of Hydrographic Office to Support Delimitation of Maritime Boundaries



City tour, visited museum of Indonesia



Welcome dinner by Deputy Hydrographer Capt. Triyoga

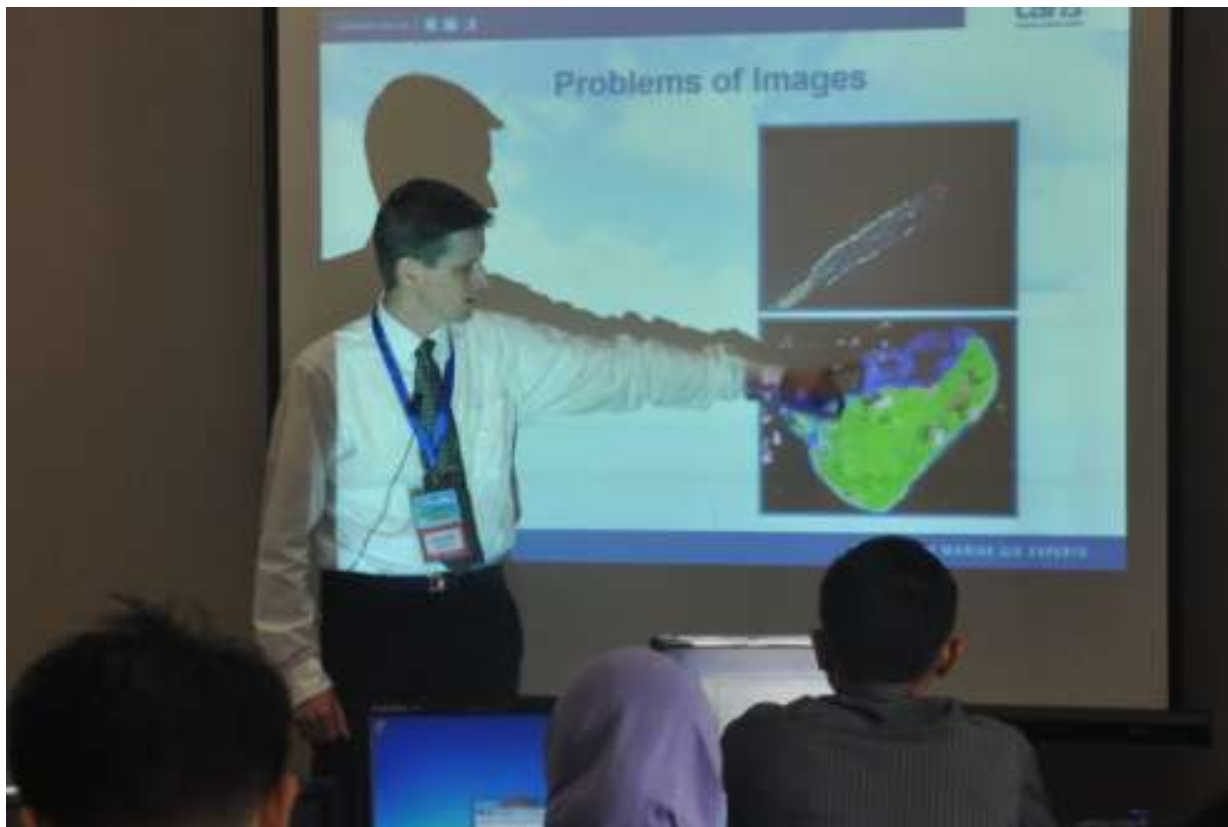


Practical session by OttocarI using CARIS lots base editor



Practical session by OttocarI using CARIS lots base editor





Practical session by Ottocar1 using CARIS lots base editor



Class Discussion



Photo session



Closing ceremony-Prof. KIM valedictory speech





Closing ceremony-Ottokarl valedictory speech



Closing ceremony-Chief hydrographer closing remark



CHIEF HYDROGRAPHER (COMMODORE DEDE YULIADI) THANKS TO PROF. KIM HYUN SOO



Certificate of training completion delivery



Certificate of training completion delivery

## Annex 6

### Certificates

(Not included in this version of the report)