



**Asia-Pacific
Economic Cooperation**

**Proceedings of SAKE-2 Workshop
The Second APEC SAKE Workshop on
Satellite Application on Fishery and Coastal Ecosystem (SAFE)**

Jakarta, November 5~8, 2007



Sponsors

**Asia-Pacific Economic Cooperation, Marine Resource Conservation Working Group
Agency for the Assessment and Application of Technology (BPPT), Indonesia
Agency for Marine and Fisheries Research (BRKP), Indonesia
Environment Protection Administration, Chinese Taipei**

Co-organized by

**Agency for the Assessment and Application of Technology (BPPT), Indonesia
Agency for Marine and Fisheries Research (BRKP), Indonesia
Institute of Oceanography, National Taiwan University**

Hosted by

Agency for the Assessment and Application of Technology (BPPT), Indonesia

SAKE is APEC-sponsored project “Satellite Applications on Knowledge-based Economy”

October 2008

Proceedings of SAKE-2 Workshop

The Second APEC SAKE Workshop on “Satellite Application on Fishery and Coastal Ecosystem (SAFE)”

SAKE is APEC-sponsored project “Satellite Applications on Knowledge-based Economy”

Published for APEC Marine Resource Conservation Working Group

APEC Project No.: MRC 05/2007

Prepared by
Prof. Chia Chuen Kao
Coastal Ocean Monitoring Center (COMC)
National Cheng Kung University
Tainan, Chinese Taipei
Tel/Fax: +886-6-209-8850 / +886-209-8853
<http://sol.oc.ntu.edu.tw/sake/index.htm>

Produced for
Asia-Pacific Economic Cooperation Secretariat
35 Heng Mul Keng Terrace Singapore 119616
Tel:(65)6891-9600; Fax:(65)6891-9690
e-mail:info@apec.org website:www.apec.org
©(2008) APEC Secretariat
APEC#208-MR-04.2

Proceedings of SAKE-2 Workshop
The Second APEC SAKE Workshop on
Satellite Application on Fishery and Coastal Ecosystem (SAFE)

Jakarta, November 5~8, 2007

APEC Marine Resource Conservation Working Group Project:
Satellite Applications on Knowledge-based Economy

Project Overseer

Dr. Y. F. Liang

Advisor to International Affairs
Environmental Protection Administration
Chinese Taipei

Organizing Committee

Co-Chairs

Dr. NANI Hendiarti

Agency for the Assessment and Application of
Technology (BPPT).
Bldg. II, 18th Floor, Jl. M.H. Thamrin No. 8
Jakarta 10340, Indonesia.
Tel: + 62-21-3169690
hendiarti@webmail.bppt.go.id

Prof. Cho-Teng LIU

Institute of Oceanography
National Taiwan University
Taipei, POB 23-13
work: +886-2-2362-0624
fax: +886-945-864-043
mobile: +886-915-003-185
ctliu@ntu.edu.tw

Mr. Berny A. Subki, MSc

Research Center for Marine Technology
Agency for Marine and Fisheries Research (BRKP)
Ministry of Marine Affairs and Fisheries (DKP)
Jl. M.T. Haryono Kav. 52-53
Jakarta 12770, Indonesia
bernysubki@hotmail.com

Opening Speech

Dear Chairman of Agency for Marine and Fisheries Research; Friends and Colleagues, Ladies and Gentlemen, Good morning!

It is a great pleasure for us to host this “second **APEC SAKE** (Satellite Applications on Knowledge-based Economy)”. I would like to express our warm welcome to all of you, especially to the Delegation from National Taiwan University, National Cheng Kung University, Vietnam National University, University of the Philippines, Tokyo University, Nagoya University, Collect Localisation Satellite, ITB, and LIPI.

SAKE project started since 2006, it is the continuation of OMISAR project. The objective of this workshop is to give the opportunity to draw together the researches and stakeholders of the Asia Pacific countries and to promote application of satellite remote sensing for marine conservation and ocean resources sustainability. This program consists of 2 workshop days and 2 days of technical tour to Banten area. This workshop is in cooperation of BRKP –DKP.

I have been informed that SAKE project will continue until 2008 with the focus of activity in the Derawan Island in South Kalimantan and Pangkajene Islands in South Sulawesi. The objective is to develop algorithm for coral reef and seaweed mapping using the Formosat-2 satellite and hyperspectral images. These activities will be beneficial for efforts in monitoring the coastal ecosystem, identification of marine resources and support the local community in preserving the habitat.

In this opportunity, I would like to thank to all organizer committee members from BPPT, to all organizations and all sponsors who have provided their effort to make this workshop become a success. I hope this workshop will help greatly increase the capability and knowledge of the scientists on very high resolution images and to expose the capability of hyperspectral technology to support natural resources management in Indonesia.

I also hope the cooperation between BPPT and Institutions of Chinese Taipei does not stop here, but will continue in the next coming year.

Finally, I wish this workshop a great success and wish you a good time in Jakarta. And with saying Bismillahirrahmanirahim, the second APEC Satellite Applications on Knowledge-based Economy workshop is officially opened.

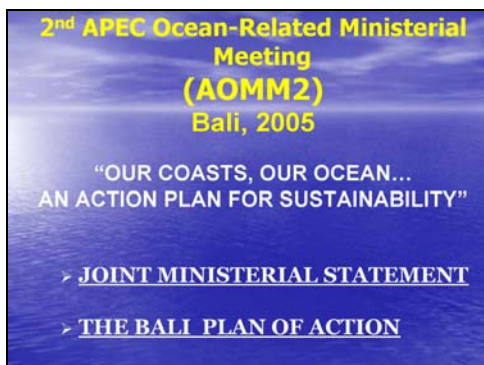
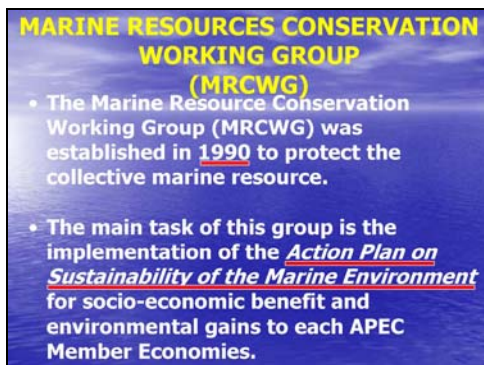
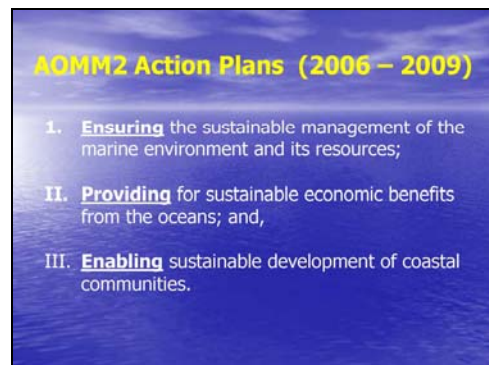
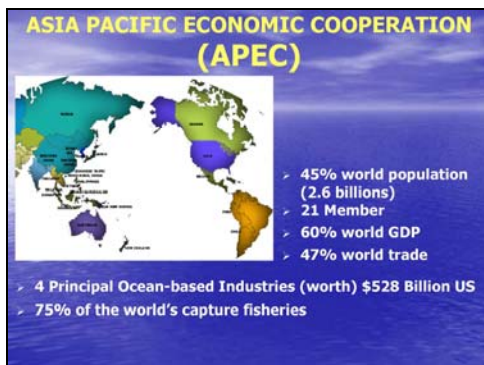
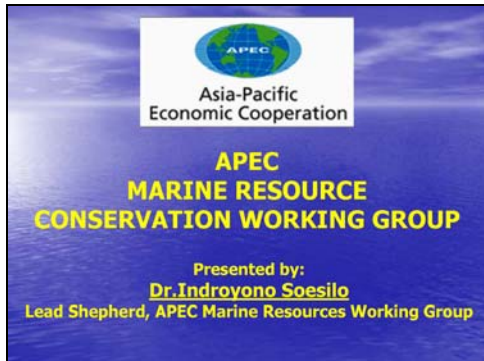
Thank you.

Prof. Ir. Said D. Jenie, Sc.D.

Head of Agency For the Assessment and Application of Technology (BPPT)
Republic of Indonesia
Jakarta, 5 November 2007

Welcome Speech

Dr. Indroyono Soesilo
Lead Shepherd, APEC Marine Resources Working Group



2007 APEC-MRCWG Projects

No	Description	Proposing Economy
1	Tsunami Preparedness and Resilience through Research, Extension, Education and Training.	Indonesia
2	Understanding the economic benefits and costs of controlling marine debris in the APEC region.	Australia
3	Marine Ecosystem Identification and Mapping in the Asia-Pacific Region	USA
4	Capacity Building Workshops on Marine Environmental Conservation and Sustainability for Developing Economies of APEC	Republic of Korea
5	Satellite Application in Knowledge-based Economies (SAKE 2007)	Chinese Taipei
6	Development of an APEC Strategy on Sustainable Aquaculture	Chile



Coral Triangle "Amazon of the Seas": 75,000 Sq-Kilometer, 6 Countries approx. 500 coral reef species, approx. 3000 fish species, 120 million people, US\$2.3 Billions Economy/Year

APEC-MRCWG NUMBERS OF PROJECTS 2005 – 2008

2005 : 3 Projects,
 2006 : 3 Projects,
 2007 : 6 Projects,
 2008 : 2 Projects (Korea & Chinese Taipei)

What are MRCWG Expectation from SAKE Project ?

- ✓ Implement THE BALI PLAN OF ACTION,
- ✓ Implement The APEC Leader's Declaration on Coral Triangle Initiative,
- ✓ Implement the SAKE Project to support the Climate Change Program (Global Warming, Sea Level Rise, El Nino, La Nina)

GLOBAL DISTRIBUTION OF CORAL




The Pacific Ocean, particularly the Southwest Pacific Ocean, is the place of the highest coral reef diversity in the world. "The Amazon of the Seas". It must be rehabilitate, manage, conserve and preserve.

✓ MRCWG Lead Shepherd Contact Address


Lead Shepherd

Dr. Indroyono Soesilo
 Jl. Pasir Putih 1
 Jakarta Utara
 Phone: +62 21 647 115 83
 Fax: +62 21 647 116 85

Contact Person
 Dr. Tonny Wagey
 Jl. Pasir Putih 1,
 Jakarta Utara
 Phone: +62 21 647 115 83
 Fax: +62 21 647 116 85
 Email: t.wagey@fisheries.ubc.ca



Asia-Pacific Economic Cooperation



SYDNEY APEC LEADERS' DECLARATION ON CLIMATE CHANGE, ENERGY SECURITY AND CLEAN DEVELOPMENT

Sydney, Australia, 9 September 2007

Marine and coastal resources

Sustainable marine and coastal resources are an integral part of the carbon cycle. We therefore:

- welcome the Coral Triangle Initiative on Coral Reefs, Fisheries and Food Security which is aimed at enhancing the conservation of marine biological resources.



THANK YOU

A Strategic Approach to Oceans Management For Sustainability Together