

Appendix I : Agenda of APEC SAKE-2 Workshop

November 5, 2007 (R. Komisi Utama BPPT Lt. 3)

08:30	Registration	
09:00	<p>Opening session</p> <ol style="list-style-type: none"> 1. Report by Local Organizer (Director of PTISDA BPPT: Dr. Yusuf S. Djajadihardja) 2. Introduction on SAKE activities (Prof. Cho-Teng Liu) 3. Welcome Speech (Lead Shepherd APEC MRC WG: Prof. Dr. Indroyono Soesilo) 4. Opening Remark (Chairman of BPPT: Prof. Said D. Jenie) 5. Group Picture 	
10:00	Coffee break	
10:30	<p>Session A: Monitoring of coastal ecosystem (Chair: Prof. CC Kao)</p>	
	1. Mapping of inland and underwater habitats with satellite images, VNU – Vietnam (Dr. Nguyen P. Khu)	A-1
	2. Reef Connectivity: a Study of Larval Dispersal in Sulu Sea, UP - Philippine (Prof. Cesar Villanoy)	A-2
	3. Mapping of coastal ecosystem condition and its water quality around the Thousand Island of North Jakarta, BPPT - Indonesia (Mr. Yudi Wahyudi)	A-3
	4. A remote sensing investigation on seasonal variations of river discharges and their influences to marine environmental changes over Jakarta Bay, BPPT - Indonesia (Dr. Nani Hendiarti)	A-4
	5. Application of ocean color remote sensing for monitoring and mapping total suspended matter: a case study in the East China Sea, Nagoya University / BPPT – (Dr. Eko Siswanto)	A-5
	6. Using remote sensing to study the coastline change from typhoon and coastal erosion at Ban Laem Sing, Upper Gulf of Thailand, CU – Thailand, (Prof. Absornsuda Siripong)	A-6
12:30	Lunch	
13:30	<p>Session B: Hyperspectral mapping on natural resources (Chair: Dr. M Sadly)</p>	
	1. Coastal water monitoring and algorithm development for hyperspectrum sensor, TUIS –Japan (Prof. Ichio Asanuma)	B-1
	2. Development of mangrove spectral library, BPPT – Indonesia (Mr. Hartanto Sanjaya)	B-2

	3. Land Cover Classification of Fordata Island, BPPT - Indonesia (Ms. Marina Frederik)	B-3
	4. Observation of sea surface temperature and chlorophyl-a concentration along Southern Vietnam Sea using ocean color remote sensing, VNU – Vietnam (Dr. Nguyen Phi Khu)	B-4
14:40	Session C: Mapping & mitigation of marine pollution (Chair: Prof. A. Siripong)	
	1. A Multi-scale detection technique for anomaly on ocean surface using optical satellite images, NCU, Chinese Taipei (Prof. L.Y. Chang)	C-1
	2. Simulation of spilled oil in Seribu Islands waters, ITB - Indonesia (Prof. Safwan Hadi)	C-2
15:20	Coffee Break	
15:40	Session D: Field verification on coastal ecosystem mapping (Chair: Prof. C. Villanoy)	
	1. Optical Properties of Inorganic Suspended Solids and their Influence on In-water Algorithm of Ocean Color Remote Sensing in Coastal Turbid Waters, Chulalongkorn Univ. – Thailand (Prof. Absornsuda Siripong)	D-1
	2. Identification of groundtruthing needs for the extended use of satellite imagery in nearshore habitat mapping – Indonesia (Dr. Karen von Juterzenka)	D-2
	3. Assesment of Formosat satellite imagery for coastal ecosystem mapping in West Banten, Indonesia, BRKP – Indonesia (Mr. Syamsul B. Agus)	D-3
	4. Integration of satellite application and computational tool for marine conservation area design, BROK – BRKP (Mr. Elvan Ampou)	<u>D-4</u>

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09:00	Session E: Operational oceanography (Chair: Prof. Safwan Hadi)	Page
	1. Satellite monitoring of fishing vessels as a tool to localize and estimate the fishing activity, CLS – France (Dr. Philippe Gaspar)	E-1
	2. Operational Oceanography for the Eastern Indian Ocean, BPPT – Indonesia (Dr. Fadli Syamsudin)	E-2
	3. Data Buoy for the Operational Oceanographic Observation (Prof. Chia Chuen Kao)	
	4. Sea surface temperature changes in Indonesian seas correlation with El Nino, La Nina and Indonesian through flow phenomenon, BRKP – Indonesia (Mr. B. Realino)	E-3
	5. Typhoon swell freak wave hindcasting, NTU (Dr. Nai Kuang Liang)	E-4
	6. Monitoring of Marine Resources in Indonesia's Small Outer Islands (Case: Manterawu Island, North Sulawesi), BROK – Indonesia (Mr. Dendy Mahabrur)	E-5
10:45	Coffee break	
11:05	Session F: Marine energy assessment (Chair: Mr. Berny A. Subki)	
	1. Renewable ocean energy for the APEC region, NTU (Prof. Nai Kuang Liang)	F-1
	2. The energy of Taiwan Current, NTU (Prof. Cho-Teng Liu)	F-2
11:50	Lunch	
12:50	Session G: Fishery and mariculture (Chair: Mrs. Frida S.)	
	1. Coupling 3-D models of ocean physics and biogeochemistry to fish population dynamics to monitor marine living resources in a context of global change, CLS – France (Dr. Philippe Gaspar)	G-1
	2. Application of Knowledge-Based Expert System Model for Fishing Ground Prediction in the Tropical Area, BPPT – Indonesia (Dr. Muhamad Sadly)	G-2
	3. Vulnerability of reef resources to the mariculture industry: a remote sensing and modeling exercise, UP – Philippines (Dr. Salamante)	G-3
	4. Understanding the abundance of pelagic fish in Bali Strait during southeast monsoon, BROK – Indonesia (Mr. Teja Arief)	G-4
14:20	Panel discussion of technology roadmap on remote sensing application in Indonesia (Chair: Dr. Aryo Hanggono)	
	1. Presentation of Roadmap for Marine and Fishery application (BRKP)	
	2. Panel Discussion	
15:00	Coffee Break	

15:20	Panel discussion on SAKE project report and announcement of next SAKE meeting (Chair: Prof. Cho-Teng Liu)
16:00	Summary and closing remarks Dr. Aryo Hanggono, Director of Research Center for Marine Technology BRKP

Nov. 7-8, Technical Tour:

Field verification of satellite images near Tanjung Lesung, Banten (about 4-hour drive southwest of Jakarta)

Appendix II: Summary of Panel Discussion

Panel members: Dr. Aryo Hanggono, Dr. Nani Hendiarti, Prof. Cesar Villanoy and Prof. Cho-Teng Liu

Summary:

We are grateful to BPPT and BRKP in organizing this SAKE-2 workshop successfully. This is the major activity of SAKE 2007 project. The number of participating scientists, number of countries that these scientists came from, the number of presented papers, and the depth of research results are all unprecedented in SAKE and all OMISAR projects.

SAKE 2008 proposal has been approved by APEC MRCWG, and by APEC Budget Allocation Committee. About 8 proposals submitted to MRCWG in April, only two proposals were funded by APEC, and SAKE 2008 is one of them.

The Steering Committee of SAKE 2008 project will work closely with participating scientists to acquire more Formosat-2 images to meet their needs of research. The next meeting of Steering Committee will be hosted by Dr. Khu in Viet Nam

The next SAKE workshop is planned at Manado, Indonesia. Wish you all join us and present your study in the application of satellite images.

As shown in the welcome speech by Dr. Indroyono, corals are sensitive to global climatic changes. Nearly 50% of world corals were bleached in the last El Nino. Because it is a breeding ground of most marine species, and its biodiversity is the largest in all marine ecosystems, mapping coral communities in the global oceans and monitoring coral health are important to the conservation of marine resources. Working with Coral Triangle Initiative will be the first goal of the new proposal that is a follow-up of SAKE 2008 project. The new proposal to APEC Marine Resource Conservation Working Group will be drafted from now to February 2008.

The second goal of the new proposal will be the monitoring of oil spill in operational mode. This will assist the assessment of damages in near-real time fashion, the prediction of the movement of oil patches, and the allocation of the limited resources for mitigating disaster and for reducing damages to marine resources.

Proceedings of SAKE-2 Workshop

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