



## SPICE

# Science for the Protection of Indonesian Coastal Marine Ecosystems

## FINAL CONFERENCE

Venue: Udayana University  
 Agrocomplex Building  
 Jalan P.B. Sudirman  
 Denpasar-Bali

	<b>20<sup>th</sup> January 2016</b>		
07.30	Registration		
<b>Room</b>	<b>Nusantara</b>		
08.15	<b>Opening</b> Balinese traditional welcome <b>Welcome addresses</b>		
08.30	Prof. Wayan Arthana Dean, Faculty of Ocean and Fisheries, UDAYANA		
08.35	Andrea Heyn Dep. Head of Division 725 "System Earth", Federal Ministry of Education and Research (BMBF)		
08.40	Prof. Ainun Na'im Secretary General, Ministry of Research, Technology and Higher Education (RISTEKDIKT)		
08.45	Prof. Indryono Soesilo		
08.50	Prof. Made Damriyasa Rector, UDAYANA		
08.45	Gong ceremony and group photo opp.		
09.00	Introduction		
	<b>Plenary Session 1: Carbon Sequestration</b> Chairs: Tim Rixen und Andreas Hutahaean		
09.15-09.45	Carbon sequestration in the Indonesian Seas and its global significance: Generation of scientific knowledge for formulating strategies for adaptation to climate change (CISKA) <i>Rixen T., Hutahaean A. and the CISKA team</i>		
09.45-10.00	Integrated Blue Carbon Program for Sustainable Coastal –Marine Resources in Derawan Archipelago-Berau, East Kalimantan <i>Hutahaean A., Rustam A., Restu N. Afati, Kepel T., Daulat A., Pranowo W.S., Sulisty B.</i>		
10.00-10.15	Impact of physical conditions on the carbon cycle in the Indonesian Waters <i>Mayer B., Putri M., Pohlmann T., Setiawan A.</i>		
10.15-10.30	The impact of Indonesian peatland degradation on downstream marine ecosystems and the global carbon cycle <i>Abrams J., Hohn S., Baum A., Merico A., Rixen T.</i>		
10.30-10.45	Role of organic matter to physico-chemical quality, the abundance of aquatic organisms and fish health of Eastern Sumatra rivers <i>Samhudi H.</i>		
10.45-11.00	Beyond REDD+: institutional considerations for peatland conservation in Indonesia <i>Ghosh A., Schlüter, A.</i>		
11.00-11.15	Discussion and concluding remarks		
11.15-11.30	COFFEE BREAK		

Room	Nusantara	Garuda	Bhineka
	<b>Plenary Session 1: (continued) Carbon Sequestration</b> Chairs: Tim Rixen und Andreas Hutahaen	<b>Parallel Session 1: Marine Geology and Biogeochemistry</b> Chairs: Mahyar Mohtadi and Haryadi Permana <b>Part I: Marine Geology</b>	<b>Parallel Session 2: Renewable Energy</b> Chairs: Roberto Mayerle and Poerbandono
11.30-11.45	Impact of river discharges on the marine carbonate system and the resulting CO <sub>2</sub> emissions into the atmosphere <i>Wit F., Pranowo W.S., Samiaji J., Samhudi J., Putri M., Elizal Ir.H., Hutahaen M., Rixen T.</i>	Historical record of heavy metal of Jakarta Bay sediment <i>Zuraida R., Rahardiawan R., Permana H.</i>	Information system for site selection and estimation of effective power yield from ocean renewable energy facilities in Indonesia <i>Mayerle R., Pandoe W.</i>
11.45-12.00	Physical Oceanography Study of East Sumatran Marine Waters During the Wet Season <i>Samiaji J., Elizal, Yoswaty D., Ghalib M., Rixen T. Siegel H., Pohlmann T., Mayer B.</i>	Variations in continental runoff recorded in marine sediments around Java and Kalimantan over the past 5,000 years <i>Kwiatkowski C., Mohtadi M., Permana H., Susilohadi S., Zuraida R., Hebbeln D.</i>	Potentials of Ocean Renewable Energy in Indonesian Seas: Study Cases for Larantuka Strait of Flores and Offshore Baron Beach of Yogyakarta <i>Pandoe W.</i>
12.00-12.15	Hydrodynamic Modeling of Karimata Strait during 2010-2014 <i>Putri, M.R., Anwar, I.P., Setiawan A.</i>	Pollen, charcoal and organic-walled dinoflagellate cysts studies in the Java Sea: main outcomes and perspectives <i>Poliakova A., Behling H.</i>	Effectiveness of synthetic aperture radar satellites for resource characterization and pre-selection of potential ocean renewable energy sites in Indonesia <i>Lehner S., Jacobsen S., Pleskachevsky A., Gebhardt C., Mayerle R., Runte K.</i>
12.15-12.30	Impact of river discharge on the carbon cycle in marine ecosystems of Indonesia based on satellite and in situ data <i>Stottmeister I., Siegel H., Samiaji J.</i>	Gradients in carbon and nutrient input into the Java Sea related to human activities in river catchments during the Late Holocene <i>Herbeck L.S., Jennerjahn T.C.</i>	Investigation of the energy potential from tidal stream currents in Indonesia <i>Orhan K., Mayerle R., Narayanan R.</i>
12.30-12.45	Assessment of carbon status in Payung island waters (marine protected area) South Sumatra Province, Indonesia <i>Purwiyanto A.I.S., Agustriani F.</i>	The "known knowns" and the "known unknowns" in understanding the hydroclimate history of Indonesia <i>Mohtadi M.</i>	Investigation of the energy potential from waves in Indonesia <i>Qingyang Song</i>
12.45-13.00	Discussion and concluding remarks	Discussion and concluding remarks	Discussion and concluding remarks
13.00-14.00	LUNCH		
Room	Nusantara	Garuda	
	<b>Plenary session 2: Governance of coastal and marine ecosystems</b> Chairs: Marion Glaser and Luky Adrianto		
14.00-14.30	Governance and management of Indonesian coastal SES: Some findings across space and time <i>Glaser M.</i>		
14.30-14.45	The Governance of Social-Ecological Connectivity in the Seagrass Ecosystem Based Small Scale Fisheries in Indonesia <i>Adrianto L., Syarief N.D., Anggraeni F., Ahran M., Wahyudin Y.</i>	<b>Parallel Session 1: (continued) Marine Geology and Biogeochemistry</b> Chairs: Mahyar Mohtadi and Haryadi Permana <b>Part II: Biogeochemistry</b>	
14.45-15.00	MPA legislation: its framework and implementation <i>Baitoningsih W.</i>	ENSO-driven changes in carbon fluxes to the deep sea off South Java. Impact of physical conditions on the carbon cycle in the Indonesian waters <i>Rixen T., Herunadi B.</i>	
15.00-15.15	Can PES promote community-level forest conservation? Experimental evidence from Indonesia <i>Ghosh A., Schlüter A.</i>	Trophic status of the tropical Brantas Estuary Indonesia: nutrient and phytoplankton dynamics <i>Damar A.</i>	
15.15-15.30	Perceptions on changes over time: environment and resources through the eyes of resource users <i>Schwertner Máñez K.</i>	Human activities and extreme events affecting fluxes of dissolved nutrients, suspended sediments and particulate organic matter in the Brantas River, Java, Indonesia <i>Jennerjahn T.C., Jänen I., Ponnurangam. A.E., Propp C., Seno Adi</i>	
15.30-15.45	The need to look upstream. Watershed management in the catchment of the Segara Anakan Lagoon <i>Lukas M.C.</i>	Seasonal Variability of Water Residence Time in Madura Strait, East Java, Indonesia <i>Nugrahadi M.S., Duwe K., Schroeder F., Goldmann D.</i>	
15.45-16.00	Discussion and concluding remarks	Discussion and concluding remarks	
16.00	COFFEE BREAK		
16.00-17.30	<b>Poster Session</b>	<b>Poster Session</b>	<b>Poster Session</b>
18.30	CONFERENCE DINNER	Venue: Fairmont Sanur Beach Jalan Kusuma Sari No. 8 Sanur	Please note: transport by bus will be provided from the conference venue to the dinner venue

	<b>21<sup>st</sup> January 2016</b>		
<b>Room</b>	<b>Nusantara</b>		
	<b>Plenary session 3: Understanding ecological and socio-economic dynamics of mangrove ecosystems under pressure</b> Chairs: Tim Jennerjahn and Moh. Husein Sastranegara		
08.00-08.30	Understanding ecological and socioeconomic dynamics of mangrove ecosystems under pressure <b>Jennerjahn T.C.</b> , <i>Ardli E.R., Lukas M.C., Nordhaus I., Palm H.W., Sastranegara M.H., Sukardi P., Yuwono E.</i>		
08.30-08.45	Incremental claiming and recognition of land tenure in the Segara Anakan Lagoon <b>Heyde J.</b>		
08.45-09.00	Modelling morphodynamics of a tropical coastal lagoon, Segara Anakan, Indonesia <i>Tarya A., Jennerjahn T.C., Winter C.</i>		
09.15-09.30	Effects of environmental change on mangrove biodiversity, community dynamics and ecosystem functions <b>Nordhaus I., Sastranegara M.H.</b>		
09.30-09.45	Soil organic carbon stocks in estuarine and marine mangrove ecosystems are driven by nutrient co-limitations of P and N <b>Boy J., Weiss C., Weiss J., Iskandar I., Mikutta R., Guggenberger G.</b>		
09.45-10.00	Impact of increased siltation on energy flow structure and ecosystem services of the Segara Anakan lagoon ecosystem, Indonesia: a twenty year's perspective <b>Ardli E.R., Wolff M., Rosyadi S., Maharning R., Widyastuti A.</b>		
10.15-10.30	Discussion and concluding remarks		
10.30-11.00	COFFEE BREAK		
<b>Room</b>	<b>Nusantara</b>	<b>Garuda</b>	<b>Bhineka</b>
	<b>Parallel Session 3: Pollution</b> Chairs: Jan Schwarzbauer and Hari Eko Irianto	<b>Parallel Session 4: Aquaculture</b> Chairs: Roberto Mayerle and Poerbandono	<b>Parallel Session 5: Stakeholder consultation</b> Chair: Bevis Fedder
11.00-11.15	Impacts of megacities on tropical ecosystems – The case of Jakarta Bay; Special Issue in Marine Pollution Bulletin with SPICEIII results <b>Schwarzbauer J., Dsikowitzky L., Ferse S.C.A., Vogt T.S., Irianto H.E.</b>	Aquaculture development in Indonesia <b>Sugama K.</b>	Introduction <b>Fedder B.</b>
11.15-11.30	Impact of pollution on the ecosystem Jakarta Bay <b>Dsikowitzky L., Dwiytno, Ariyani F., Irianto H.E., Schwarzbauer J.</b>	Fish parasites: Aquaculture and food safety/security <b>Palm H.W., Damriyasa I.M., Wiryawan B., Theisen S., Neubert K., Yulianto I., Kleinertz S.</b>	Title to be announced (5 minutes) <b>Adi R.</b> (Director, Center for Fisheries and Marine Socio Economics, Ministry of Fisheries and Marine Affairs, KKP)
11.30-11.45	Numerical simulation of river discharges, nutrient flux and nutrient dispersal in the Jakarta Bay, Indonesia – Current status and future scenarios <b>Van der Wulp S.A., Hesse K.-J., Damar A.</b>	Rapid diagnostics and monitoring of shrimp diseases and shrimp pathogens in natural and culture environment and facilities <b>Saluz H.P., Mrotzek G., Haryanti, Sugama K.</b>	Title to be announced (5 minutes) <b>Waluyo H.</b> (Director for Coastal and Marine Pollution Control, Ministry of Environment and Forestry)
11.45-12.00	Parasites as environmental indicators <b>Neubert K., Yulianto I., Theisen S., Wiryawan B., Damriyasa I.M., Kleinertz S., Palm H.W.</b>	Molecular and morphology identification of unknown shrimp species from Aceh Indonesia <b>Haryanti, Sugama K., Saluz H.P.</b>	Title to be announced (5 minutes) <b>Adrianto L.</b> (Associate Professor and Dean, Faculty of Fisheries and Marine Science, IPB)
12.00-12.15	Effect of environmental stressors on the ecophysiology of marine organisms: local and regional impacts of pollution <b>Baum G., Kunzmann A.</b>	Information System for the Management of Coastal Cage Aquaculture in Indonesia <b>Mayerle R., Sugama K., Radiarta N., Runte K.-H., Vallejo. S.M.</b>	Title to be announced (5 minutes) <b>Thoms C.</b> (Long-term lecturer, German Academic Exchange Service & IPB)
12.15-12.30	Microbial biodiversity in fish and shellfish under pollutant conditions in Jakarta Bay <b>Saluz H.P., Mrotzek G., Haryanti, Dsikowitzky L., Palm H.W., Amin S., Sugama K.</b>	Hydrodynamic method for estimating the ecological carrying capacity of fish farms <b>Niederndorfer K.R., Mayerle R., Narayanan R.</b>	Urbanization and climate change in a tropical archipelagic region: Rethinking of Indonesian coastal cities development <b>Simarmata H.</b> (Secretary, Research Center of Urban and Regional Development, Universitas Jakarta)
12.30-12.45	Discussion and concluding remarks	Monitoring environmental effects of small-scale cage aquaculture facilities in Bali, Indonesia <b>Runte K.-H., Mayerle R., Sugama K.</b>	Working Groups on developing knowledge exchange initiatives (ca. 1 ½ hours)
12.45-13.00		Discussion and concluding remarks	
13.00-14.00	LUNCH		

Room	Nusantara		
	<b>Plenary session 4: Coral reef-based ecosystems</b> Chairs: J. Jompa and H. Reuter		
14.00-14.30	Corals reefs in Indonesia - the case study of Spermonde Archipelago <i>Reuter H., Jompa J.</i>		
14.30-14.45	Non-random variability in functional composition of coral reef fish communities along an environmental gradient <i>Plass-Johnson J., Taylor M., Husain A.A.A., Teichberg M.C., Ferse S.C.A.</i>		
14.45-15.00	Controls of benthic algae in the coral reef system, Spermonde Archipelago, Indonesia <i>Teichberg M., Plass-Johnson J., Ferse S.C.A., Wild C., Lukman M., Jompa J.</i>		
15.00-15.15	Understanding the dynamics of seagrass ecosystems and plankton in a tropical barrier reef and lagoon ecosystem <i>Kneer D., Asmus H., Schnack-Schiel S.B., Jompa J., Liitay M.</i>		
15.15-15.30	Connectivity of coral reefs in Indonesia I: concordant genetic population structure of reef fauna indicates restricted gene flow across the Indo-Malay Archipelago <i>Kochzius M., Dohna T., Hui M., Knittweis L., Nuryanto A., Timm J.</i>		
15.30-15.45	COFFEE BREAK		
15.45-16.00	Connectivity of coral reefs in Indonesia II: small scale population patterns of reef organisms in the Spermonde Archipelago <i>Timm J., Dohna T., Madduppa H., Neuhaus A., Demierbe T., Kochzius M.</i>		
16.00-16.15	Barcoding of grouper species in Spermonde Archipelago, South Sulawesi <i>Nuryanto A., Pramono J., Kochzius M.</i>		
16.15-16.30	Linking fishers' perceptions of the reef to their fishing activities: a case study from Spermonde Archipelago, South-Sulawesi <i>Breckwoldt A., Glaser M., Ferse S., Schwerdtner Máñez K., Assad H., Neil M., Hussain S.</i>		
16.30-16.45	A user-friendly simulation model to assist in the local management of coral reefs exposed to multiple stressors <i>Miñarro S., Leins J., Fulton E.A., Jompa J., Reuter H.</i>		
16.45-17.00	Discussion and concluding remarks		
17.00	<b>Concluding Remarks and Outlook (all chairs)</b>		
17.30	<b>Closing</b>		

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