



INTERNATIONAL SCIENCE, TECHNOLOGY and POLICY SYMPOSIUM

(Side event of the World Ocean Conference)

12 - 14 May 2009 Manado, North Sulawesi Indonesia



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MESSAGE FROM THE MINISTRY OF MARINE AFFAIRS AND FISHERIES FOR THE INTERNATIONAL OCEAN SCIENCE, TECHNOLOGY AND POLICY SYMPOSIUM 2009"

The Government of Indonesia will host the World Ocean Conference 2009 (WOC'09) in Manado, the capital city of North Sulawesi Province, during May 11 - 15, 2009. In conjunction with that global event, the Ministry of Marine Affairs and Fisheries (MMAF) and The Provincial Government of North Sulawesi will co-organize an International Ocean Science, Technology, and Policy Symposium as a side event of the WOC'09. The symposium will be held during May 12 - 14, 2009 at the same site of the WOC'09 venue.

The symposium will cover various aspects related to oceans including physical, biological, technological, and social economic. Altogether, there will be 31 different topics to be discussed at parallel sessions during three days activity. It is organized in such a way that participants and speakers may involve in more than one sessions, and freely mobile, in order to gain maximum benefits of their presence.

The objective of the symposium is to share information among scientists, managers, practitioners, entrepreneurs, and policy-makers on their recent and current experiences. It is a global arena for participants to introduce their new inventions, great ideas, research findings, derived methods and technologies of production, as well as resource policy advices, in order that everybody may improve his/her capacity in their respective field and specialization. Being a side event of the WOC'09, the symposium may also provide information directly and indirectly to the leaders and prominent figures from around the world who attend the WOC'09, to seek for a common understanding on the benefits and impacts of ocean to world society.

The host city of Manado is a seaside beautiful place, rich in natural and cultural resources. Hence, participants of the WOC'09, symposium, and other related events may also avail themselves of the wonders of Manado and its enthralling surrounding places. The famous and most beautiful Bunaken Marine Park, the flowery town of Tomohon and the tuna town of Bitung.

In this regards, I sincerely invite you to participate and to involve in the symposium.

I do hope that your participation will bring forward useful and meaningful impacts toward the sustainability and long-existences of our shared and common ocean ecosystem.

Sincerely Yours,

Freddy Numberi,

Minister of Marine Affairs and Fisheries Republic of Indonesia

MESSAGE FROM THE GOVERNOR OF NORTH SULAWESI PROVINCE FOR THE INTERNATIONAL OCEAN SCIENCE, TECHNOLOGY AND POLICY SYMPOSIUM 2009

Greetings from Manado 'the land of smiling people'

We have to give thanks to God Almighty for His love and blessings that the Government of North Sulawesi, in collaboration with the Ministry of Marine and Fishery Republic of Indonesia, will hold the *International Ocean Science*, *Technology and Policy Symposium* as a supporting event for the *World Ocean Conference in 2009*.

This symposium will discuss various aspects related to ocean including *physical*, *biological*, *technological* and *social economic* aspects, which will be presented in the 28 parallel sessions for three days. The purposes of this symposium are:

- 1. As an arena for sharing latest information among the *scientists*, *managers*, *practitioners*, *entrepreneurs and policy-makers* of their knowledge and understanding;
- 2. As a promotional event for inviting leaders and experts from various countries, directly or indirectly, to attend the WOC 2009 in Manado, North Sulawesi.

Manado, North Sulawesi is a strategic place to hold this symposium for its beautiful scenery of ocean, and its richness of natural resources and unique cultures. Therefore, it is hoped that participants of both WOC and symposium and other international events could help promote the exotic beauty of Manado, North Sulawesi as an attractive place for tourist destination and for investment.

Several famous and beautiful places are Bunaken Marine Park, the Flower City of Tomohon and the Bonita City of Bitung which have abundant various spices, mouth-watering seafood and many other 'not to miss' places for tourists to visit.

Ahead of us is a multinational event, an international event which will bring up North Sulawesi and Indonesia in the global stage, it is the *World Ocean Conference (WOC)* which will be held on May 11 - 15, 2009. With the *WOC 2009* we hope to introduce to the world that **North Sulawesi is an exceptional place for trade, tourism and investment.** This is part of promotion of a region in a global scale.

I am certain that the event of *World Ocean Conference 2009*, will open the eyes of the world that Indonesia is blessed with numerous stunning places for tourism and is a safe and prospective area for investment. Therefore, our target is *after WOC*, in which we expect that it will trigger the growing and developing of investment and tourism in Indonesia and North Sulawesi. Finally, I would like to welcome your participation in the *International Ocean Science*, *Technology and Policy Symposium 2009*. May God Almighty bless us with all wisdom and strength to develop our beloved region and country.

Thank you.

S. H. SARUNDAJANG

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Rationale And Objective

Ocean is the largest world's ecosystem that renders multifarious aspects of human beings. There is apparently nothing happened under the sky without directly or indirectly affecting or being affected by the ocean. Being a complex system that importantly determining global life, ocean must be scientifically understood, politically comprehended, and environmental friendly managed in order that it can support and sustain human life. That is the main reason to conduct this symposium as a scientific arena for all participants to share their experiences and come to conclusion of having better insight on the complexity of the ocean.

The common objectives of this symposium are:

- Sharing cutting-edge information, sciences, and technologies on all aspects and functions of ocean.
- Collect and disseminate scientific information that may be used by government and other concerned parties to improve the quality of ocean policy toward benefiting human race.

1. Sharks And Ray

Management and Conservation for Sustainable Development

Topic of Coverege

Several aspects as important components of management and conservation (such as: biology, dynamics and exploitation/fisheries as well as law/regulation and international/regional initiatives) of sharks and rays fisheries and management will be presented and discussed in this session.

Objectives

The objectives of this session are to:

- 1. Review existing international, regional and other initiatives to improve the management conservation status of sharks and rays.
- 2. Understand biodiversity of sharks/rays and their spatial distribution.
- 3. Review status of shark and rays fisheries and their resource management
- 4. Introduce Indonesia's initiative to develop Shark and Rays National Plan of Action.

Speakers

1. Dr Natasha Stacev

Traditional Ecological Knowledge of Whale Sharks: Collaborating with Bajo Fishermen of Eastern Indonesia for Whale Shark Conservation

2. Dr. Frazer McGilvray

Improving the Conservation and Management of Sharks in the Asia Pacific Region

3. **Drs. Dharmadi**

BIODIVERSITY OF SHARKS AND RAYS IN SOUTH - EASTERN INDONESIA

4. Fahmi, M.Sc

SPECIES DIVERSITY OF SHARKS AND RAYS IN INDONESIA

5. Ir. Nilanto Perbowo, M.Sc

Draft of NPOA Sharks and Rays

6. Lida Pet Soed

Management of Sharks & Rays Fisheries in the Coral Traingle

7. Michael AW

Sustainable Management for Sharks Draw Upon Model From South Africa, Australia and Fiji

8. Prof. Peter R. Last

Sharks and Rays in The Border of Australia and Indonesia Waters : Species Composition, Distribution and It's Management Option

Oral Presenter

1. Chumaidi, Agus Priyadi, I Wayan Subamia Zafril Imran and Saurin Hem THE EFFECT OF COMMERCIAL FEED AND LIVE FOOD (MAGGOT, CHIRONOMID LARVAE AND EARTH WORM) COMBINATION ON GONAD MATURATION OF BALA SHARK (Balantiocheilus melanopterus BLEEKER) BROOD STOCK

2. Dr. Prianto Rahardjo, M.Sc

Sharks and Rays Fisheries in Indonesia

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2. Fisheries Assessment and Management

Topic of Coverege

The topic tentatively covers the following subjects: (a) climate change as an emerging issue in fishery governance, (b) Tuna RFMOs: challenges for sustainable fisheries development, (c) dealing with risk and uncertainty in fisheries, and (d) any others relevant subjects.

Objectives

The primary objectives of this symposium are to ensure global sustainable fisheries and healthy, diverse ecosystems by advancing the scientific knowledge available to resource managers to evaluate and appropriately manage fishing activities, exchange ideas and information and further global fisheries management strategy.

Speakers

1. Dr. Abdul Ghofar

Impacts of Government Subsidies on the Sustainability of Indonesia's Marine Fish Resources and Management

2. Dr. Campbell Davies

Tuna RFMOs: challenges for sustainable fisheries development

3. Dr. Purwito Martosubroto

Perspective On Global Oceans Stewardship: Improving Fisheries Governance

4. Dr. Sung Kwon

Tuna Fisheries Management by Small-islands Nations

5. Ir. Nilanto Perbowo, M.Sc

Ecosystem-Based Fisheries Management in Indonesia

6. Prof. Ron West

Linking Policy and Science for Effective Fisheries Management

Oral Presenter

1. Debora M De Frietas;

Assessing the strengths, weaknesses, opportunities, and threats of Small Famr Shrimp Aquactulture to Food Security in the Patos Lagon Estuary, Brazil

2. St.Aisjah Farhum(1), James P.Panjaitan(2), Bonar P.Pasaribu(2), Indrajaya(2), Hariyanto(3)

Exploring Performance of Pole and Liner Fishing Operation in South Sulawesi Waters

3. Ivonne M. Radjawane(1), E. Indrayanti(2) and S. Hadi (1)

Study on The carrying Capacity of Ekas Bay E cosystem Using mass Balance Trophic Approximation

4. John Hampton, Simon Nicol, Anthony Lewis

Delivering Sustainable Fisheries: The Role Of Tuna Tagging Data For Fisheries Stock Assessment And Management

5. Mlaponi, E.,Mkumbo, O.C. Budeba, Y. L., Salehe, M. A.,1 Ezekiel, C. N., Waya, R.,Musiba M. and Mbonde, A.

Composition, Biomass Distribution And Population Structure Of The Fish Stocks In Lake Victoria Tanzania Side

6. Mukti Zainuddin, Ph.D(1), Ir.Muhammad Jamal, Msi (2)

Satellite remote sensing and geographic information system of potential fishing zone and migration pattern of skipjack tuna in Bone Bay South Sulawesi

7. Hagi Yulia Sugeha (1), Nego Elvis Bataragoa (2), Daniel Limbong (3), Katsumi Tsukamoto(3)

Inter-Annual Variation on the Recruitment Time of the Tropical Anguilid Glass Eels in the Estuary of Poigar River, Northern Sulawesi Island Indonesia

8. Bambang Sumiono

Distribution And Stock Density Of Deepsea Fish Resources In The Waters Of South Off Java

9. Lilis Sadiyah (1), Natalie Dowling (3), Budi Iskandar Prisantoso (1), Retno Andamari (4), Craig Proctor (3), Leon Barmuta(2)

Characterising Indonesia's Indian Ocean Tuna Longline Fishery, Based On Newly Established Sources Of Information

10. Dewayany Sutrisno

Responsible fisheries management model: Resources accounting approach

11. Dmitry Lajus. Julia Lajus

How Historical Studies Can Be Used For Improving Fisheries Management

12. GW Ngupula and R Kayanda

Benthic macroinvertebrates: Diversity, abundance and distribution in the inshore and offshore waters of Lake Victoria

13. Wedjatmiko

Study on fisheries resources around the aceh waters before and after the tsunami event

14. Salehe, M.A; Prof. Hersøug.B; Luomba, J1; and Medard, M1

Restructuring the first-hand sales system of fisheries resource to improve fisher's income and their Livelihoods; A case of the Nile-perch fisheries in Lake Victoria, Tanzania

15. Craig Proctor1, Retno Andamari2&3, Budi Iskandar Prisantoso2, and Jessica Farley1

The history of Indonesia-Australia collaboration for monitoring of tuna fisheries

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3. Taxonomy, Natural History, Population, Dynamics, Exploitation and Management of Wild Stock Groupers

Topic of Coverege

Taxonomy, biological aspects (eg. food and feeding habits, maturity, fecundity, etc.), population dynamics (eg. growth, mortality etc.), exploitations (eg. fishing gears, methods, broodstock, seeds etc.), and management (some typical reference points).

Objectives

The objectives of this session are to:

- gather information regarding taxonomy and species diversity in each region,
- review the existing data and information on the status of exploitation,
- collect information regarding stock assessment model,
- collect data and information on the natural history and population dynamics,
- analyse some biological aspect of certain grouper species having good prospect for aquaculture.
- identify some indicators for sustainable development.

Speakers

1. Ir. Retno Andamari, M.Sc,

"PERFORMANCE OF BROODSTOCK CANDIDATE OF CORALTROUT (Plectropormus leopardus) FROM WILD"

2. Siti Nuraini, M.Sc,

"TEMPORAL PATTERN OF SNAPPER AND SNAPPER IN THAI FISHNET FISHERY IN ARAFURA SEA"

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4. Responsible Capture Fisheries

Topic of Coverege

The topic of responsible on capture fisheries sessions cover the following subjects: (a) sustainable fishing technologies, include the using of eco-friendly and efficient fishing gears; (b) maximum utilization of catch, including the reduction of by-catch and discards; (c) fisheries management options for achievement of sustainable for capture fisheries.

Objectives

- 1. Review the existing fishing technologies that could cause depletion of fish stock and decreasing of quality of environment.
- 2. Alternative solution to fishermen how to catch the fish with eco-friendly and efficient fishing technologies.
- 3. Appropriate fishing technologies with reducing by-catch and discard.
- 4. Some options how to utilize resources with maximum to sustainable of fish resources.

Speakers

1. Bundit CHOKESANGUAN

The promotion of responsible trawl fishing practices in Southeast Asia through the introduction of Juvenile and Trash Excluder Devices (JTEDs)

2. Dr. Emile Reppie

Development of Lift Net Fisheries in Indonesia

3. Dr. Isao Koya

Data Required for Developing Sustainable Capture Fisheries: Japanese and Indonesian Experiences

4. Dr. Somboon Siriraksophon

Responsible Capture Fisheries in the ASEAN Region

5. Mahiswara, Msi

Research on By Catch Reduction Devices (BRD) in Indonesia

6. Prof. Dr. Daniel Monintja

Impact of Fish Aggregating Device (FAD) on Sustainable Capture Fisheries

7. Prof. Dr. Osamu Baba

Social Economic Indicators as Reference Points for Sustainable Capture Fisheries: Experiences of Japan and Other Asian Countries

8. Prof. Dr. Sudirman

Impact of Light Fishing on Sustainable Fisheries in Indonesia

9. Prof. Dr. Takafumi Arimoto

Eco Friendly Fishing By Using Set Net

Oral Presenter

1. Catharine K. Winata

Dynamics of Turtle Conservation in Bintan

2. Dr.Siri Ekmaharaj

Strategy for Aquaculture Development in the Southeast Asian Region

3. Ngurah N. Wiadnyana

IMPORTANT ROLE AND CONTRIBUTION OF INDONESIA TO THE WORLD SEA TURTLES CONSERVATION

4. LI Jianwei

Closing the Net against IUU Fishing: The Case of China

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5. Fisheries Aqua Culture

Topic of Coverege

Topics of this special sessions cover the following but not restricted to:

- 1. Breeding, Genetics and Husbandry Technology
- 2. Fish Nutrition and Feed Technology
- 3. Fish Pathology, Emergency Preparation, and Response to Disease
- 4. Aquaculture Engineering
- 5. Water Quality and Environment Management
- 6. Safety of Fisheries Aquaculture

Objectives

Review and discussion on new research findings and the latest advancement, and commentary on world fish production from aquaculture.

Speakers

1. Dr. Endhay Kusnendar

The Effect of Global Climate Change in Aquaculture in Indonesia

2. Dr. Ketut Sugama

Aquaculture Outlook

3. Dr. Made L. Nurjana

Aquaculture Development Acceleration

4. Jacques Slembrouck

Conservation and valorization of biodiversity through domestication of freshwater fishes in Indonesia: the case study of Chromobotia macracanthus (Bleeker 1852)

5. Saurin HEM

Valorization of Palm Kernel Meal (PKM) via Bioconversion: an alternative solution to aquafeeds deficiency in Indonesia

6. Mr. Sugano dan Mr. Fujisawa

SUSTAINABLE DEVELOPMENT OF SHRIMP INDUSTRY: FOOD SAFETY AND ENVIRONMENTAL PROBLEM

7. DR. Mike Rimmer

Mariculture Development: Prospect and Constraint

Oral Presenter

1. Adi Susanto

GROWTH AND REPRODUCTIVE PERFORMANCE OF 2nd GENERATION POND REARED P. Monodon BROODSTOCK

2. Alfred G.O Kase

Growth Rate of Caulerpa species Grown under Two Light Conditions

3. Anytha Purwareyni Umbas

BANGGAI CARDINAL FISH (Pterapogon kauderni) DOMESTICATING AND ESTABLISHING MATING PAIRS

4. Batam Mariculture Development Center Team

THE DEVELOPMENT CULTURE OF SILVER POMPANO (Trachinotus blochii, Lacepede) AT BATAM MARICULTURE DEVELOPMENT CENTER

5. Coco Kokarkin

Commodity Diversification for Community Aquaculture Recovery

6. D. Hardiantho

PRESENT STATUS GENETIC IMPROVEMENT NILE TILAPIA IN NATIONAL TILAPIA BROODSTOCK CENTER

7. Dr. Kukuh Nirmala

The Decomposition Rate of Aquaculture Sediment Organic Matter on Cirata Reservoir in West Java, Indonesia

8. I Made Suitha

Brackishwater Culture of Anguilla sp Enhances Production Yield

9. IBM Suastika Jaya

EEL AQUACULTURE DEVELOPMENT IN FRESHWATER POND

10. M. Nurhudah

The ecological roles of Anadara sp. In tiger prawn culture system

11. M.N. Fahmi

BREEDING AND CULTIVATION OF JELAWAT (Leptobarbus hoeveni Blkr)

12. Mimid A. Hamid

Improvement on Breeding Technique of Asian Catfish (Pangasianodon hypophthalmus) in Jambi Indonesia; Technical View and Dissemination

13. Melchor Cerdania

14. Water Quality Assessment of Sicopong River, Bayawan City, Negros Oriental, Philippines

15. Norman Quinn

16. Variation in the settlement of lobster pueruli on Witham Collectors in Vaavu Atoll, Republic of Maldives in comparison with results in Jamaica and the US

17. Persie Mark Q. Sienes

18. Distribution and Abundance of the Dinoflagellate Noctiluca scintillans in North Bais Bay, Negros Oriental, Philippines

19. Stenly Wullur

Minute rotifer Proales similis de Beauchamp; a new promising candidate of live food

20. Wilson L. Tisera

REPRODUCTIVE STUDY OF Kappaphycus alvarezii AND Eucheuma denticulatum (SOLIERIACEAE, GIGARTINALES, RHODOPHYTA), IN RELATION TO ICE-ICE DISEASE FARMED IN BAIS BAY, NEGROS ORIENTAL, PHILIPPINES

21. Somave saki

Effect levels of protein and energy on growth parameters on Barbus grypus in fingerling

22. Anang Hari Kristanto

EFFECT OF DIFFERENT CONCENTRATION OF LUITENIZING HORMONE RELEASING HORMONE ON THE PRODUCTION OF HYBRID CHANNEL

CATFISH FEMALE (Ictalurus punctatus) AND BLUE CATFISH MALE (Ictalurus furcatus) FRY

23. Dr. Viv Dj. Prasita

Analysis of The Environmental Carrying Capacity of the Brackish Water Fishponds in the North Coast of Gresik Regency, East Java

24. Adi Hanafi

ASSESSMENT AND IMPACTS OF WASTE FROM HATCHERY DEVELOPED AREA AT GEROKGAK DISTRICT, BALI INDONESIA

25. Haryanti

PERFORMANCE OF PHENOTYPE AND GENOTYPE OF BLACK TIGER SHRIMP P.monodon WITH FAST GROWTH TRAITS

26. A.Sudradjat

Population Genetics of the Silver-Lipped Pearl Oyster (Pinctada maxima) Based on Mitochondrial DNA COI (Cytochrome oxidase I) Region

27. Joni Haryadi

THE STUDY ON MANGROVE LITTER AS A SOURCES OF NUTRIEN FOR BLANAKAN POND AREA, SUBANG - WEST JAVA

28. Muharijadi Atmomarsono

USING LOCAL PROBIOTIC BACTERIA AS THE BEST PROBLEM SOLVING FOR TIGER SHRIMP CULTURE IN INDONESIA

29. Rusman

Feasibility of seaweed culture development spesies Cottonii in Society

30. Slamet Subyakto

PERFORMANCE OF DOMESTICATED WHITE SHRIMP (Penaeus vannamei) THROUGH BREEDING PROGRAM AT BADC SITUBONDO – INDONESIA

31. Yuli Yulianti

Mass production of young oceanic seahorse, Hippocampus kuda in Lampung province, Indonesia

32. Portunus pelagicus, Linn

APLICATION OF PROBIOTIC AND MOLACE FOR IMPROVING REARING MEDIA ON CRABLET MASS PRODUCTION OF SWIMMING CRAB (Portunus pelagicus, Linn)

33. Achmad Sudradjat

Population Genetics of The Silver-Lipped Pearl Oyster, Pinctada maxima (Jameson 1901) based on Mitochondrial DNA COI (Cytochrome Oxydase I) region

34. Ahmad Musa & Melta Rini Fahmi

DIFFERENCE OF EELS (Anguilla marmorata) ABUNDANCE BETWEEN SALUSANA AND LASUSUA RIVER, TWO RIVERS AT BONE GULF COAST AREA

35. Thirunavukkarasu, N1*. Moses Inbaraj. R1, Deepak Samuel. V1 and A. Shanmugam2

Mud crab fisheries trade in India Challenges and opportunities

Poster Presentation

1. I Nyoman Adiasmara Giri

Effect of Dietary Protein and Lipid Levels on growth of Red Snapper Lutjanus sebae

2. Ani Widiyati

AN ALTERNATIVE STRATEGY FOR MANAGEMENT OF FLOATING-CAGE CULTURE WASTE SEDIMENT IN CIRATA RESERVOIR

3. Wiwin Windupranata

Measurement and Modelling of Hydro-Oceanographic Parameters for the Sustainable Mariculture Site Selection

4. Eni Kusrini

GENETIC VARIANCE OF BANANA PRAWN (Fenneropenaeus merguiensis) FROM SEVERAL POPULATIONS AT INDONESIA WATERS BASED ON MORPHOMETRIC MEASUREMENT

5. Tutik Kadarini

EFFECT OF WATER HEIGHT AND DARK-BRIGHT ON SURVIVAL RATE AND DEVELOPMENT OF LARVAL BALASHARK (Balantiocheilus melanopterus)

6. Emma Suryati

The use of Sponge Haliclona sp. For Fishery Culture

7. Lili Sholichah, Pawartining Yuliati

8. NATURAL GONAD MATURATION TECHNIQUE OF BLACK SPOT RASBORA (Rasbora dorsiocellata)

9. Nina Meilisza, I Wayan Subamia and Slamet Sugito

10. DOMESTICATION OF FRESHWATER PUFFER FISH OR BUNTAL (Tetraodon palembangensis)

11. Agus Privono

GONADAL DEVELOPMENT AND SPAWNING OF COBIA, Rachycentron Canadum IN CAPTIVITY

12. Bambang Susanto

SEED PRODUCTION TECHNOLOGY FOR ABALONE TO SUPPORT CULTURE DEVELOPMENT IN INDONESIA

13. Bejo Slamet

OBSERVATION ON NATURAL SPAWNING OF CORAL ROCKCOD, Epinephelus corallicola (Valenciennsis, 1828) IN CAPTIVITY

14. Des Roza

DISEASES INFECTION ON MASS MORTALIITY CASE OF COBIA, Rachycentron canadum LARVAE

15. Fris Johnny

THE INFLUENCE OF DIFFERENT FEED TO COBIA JUVENILE'S HAEMOCITIC IN HATCHERY

16. **Ibnu Rusdi**

LARVAL REARING OF MANGROVE CRAB (Scylla olivacea) LARVAE IN DIFFERENT SALINITY CONDITIONS

17. Johan Risandi

MANYS, A MATLAB BASED APPLICATION FOR MARICULTURE ANALYSIS

18. Ketut Maha Setiawati

REPRODUCTION OF BLUE TANG FISH (Paracanthurus hepatus) IN CONTROLLED TANK

19. Ketut Suwirya

REPLACEMENT OF FISH MEAL PROTEIN BY SOY BEAN AND CORN GLUTEN MEAL PROTEIN IN DIEATS FOR MUD CRAB, Scylla paramamosain

20. Muhammad Marzuqi

THE UTILIZATION OF SINGLE CELL PROTEIN AS SUBSTITUTION OF FISH MEAL IN DIETS FOR GROWTH OF CORAL ROCKCOD GROUPER (Epinephelus corallicola) JUVENILE

21. Suko Ismi

DEVELOPMENT OF MULTI SPECIES MARINE FISH HATCHERY IN BALI INDONESIA

22. Tatam Sutarmat

COMPARISON OF DRY PELLET AND TRASH FISH FOR CORAL TROUT P. leopardus CULTURED IN FLOATING NET CAGE

23. Titiek Aslianti

INCREASING PERFORMANCE OF RED SNAPPER, Lutjanus sebae SEED FED RED FRUIT, Pandanus conoideus OIL AS BETA-CAROTEN SOURCE FORTIFIED DIET

24. Tony Setiadharma

EFFECT OF DIFFERENT WATER DEPTH MEDIUM ON CANNIBALISM CHARACTER REDUCTION AND GROWTH ON INTERMEDIATE CULTURE OF TIGER GROUPER FRY (Epinephelus fuscoguttatus)

25. Tridjoko

PERFORMANCE OF OOCYTE DEVELOPMENT OF HUMPBACK GROUPER, Chromileptes altivelis FROM F-2 CULTURE SELECTION

26. Anak Agung Alit

PRELIMINARY ECONOMIC ANALYSIS OF GOLDEN TRAVELLY Gonathanodon speciosus Forsskal AT HATCHERY

27. Zafran

THE EFFICACY OF INACTIVATED VIRUS VACCINE AGAINST VIRAL NERVOUS NECROSIS (VNN) IN JUVENILE HUMPBACK GROUPER (Cromileptes altivelis)

28. Irwan Setyadi

THE EFFECT OF DIFFERENT FEED ON THE GROWTH OF ROCKCOD GROUPER Epinephelus corallicola JUVENILE

29. Wartono Hadie

PHENOTYPIC PLASTICITY EXPRESSION OF Macrobrachium rosenbergii IN THE SALINE ENVIRONMENT

30. Otong Zenal Arifin

GROWTH PERFORMANCE OF THE BLACK AND RED NILE TILAPIA (Oreochromis niloticus L) UNDER SEPARATE REARING CONDITION

31. Angela Mariana Lusiastuti

FIRST REPORT OF Streptococcus agalactiae OF TILAPIA (Oreochromis niloticus) FROM CIRATA RESERVOIR OF WEST JAVA

32. Lies Setijaningsih

KAJIAN KANDUNGAN LOGAM BERAT TIMBAL (Pb) DAN MERKURI (Hg) PADA AIR DAN IKAN MAS (Cyprinus carpio) BUDIDAYA KERAMBA JARING APUNG (KJA) DI WADUK CIRATA – JAWA BARAT

33. Lies Emmawati Hadie

Implementation of Selection Index to Improve Growth of Giant Freshwater Prawn (Macrobrachium rosenbergii)

34. Lies Emmawati Hadie

Productivity Assessment and Implication of Culture Development to Red-Claw (Cherax quadricarinatus)

35. Nurbakti Listyanto

36. SWAMP EEL (Monopterus sp.): DEFIANCE AND HOPE FOR NOW AND FUTURE

37. Rasidi

38. WATER QUALITY ASSESSMENT OF PONDS FORMED BY BRICKS DIGGING LAND IN PALEMBANG CITY, SOUTH SUMATRA, INDONESIA

39. Tri Heru Prihadi

EVALUATION OF THE SUSTAINABILITY OF AQUACULTURE PRODUCTION SYSTEMS IN INDONESIA

40. Tri Heru Prihadi

Life Cycle Assessment for sustainable aquaculture management: A case study of two-net cage aquaculture systems for carp (Cyprinus carpio) and tilapia (Oreochromis niloticus) in Cirata reservoir, Indonesia

41. Anjang Bangun Prasetio

Genetic Variation of Abalone Haliotis asinina Wild Brood Stock and Its Offspring (F-1) Through Allozyme Electrophoresis

42. Tuti Sumiati

THE SUSCEPTIBILITY OF FISH CELL CULTURES TO KOI HERPESVIRUS (KHV)

43. Uni Purwaningsih

Effect of Vitamin C to Non-Spesific Immunity Response on Huna (Cherax sp.)

44. Desy Sugiani

Temnocephalids Ectosymbiont Craspedella sp. on Cherax quadricarinatus and Cherax albertisii "Papua freshwater lobster" in crayfish rearing unit

45. M. H. Fariduddin Ath-thar

EFEKTIFITAS LARUTAN TANIN UNTUK MENDUKUNG KEBERHASILAN MIKROINJEKSI TELUR PADA IKAN LELE Clarias gariepinus

46. Yohana

MACROBENTHOS DIVERSITY IN AQUAPONIC POND

47. Jojo Subagja

GARING FISH (TOR DOURONENSIS) DOMESTICATION AS AN ALTERNATIVE EFFORT FOR CONSERVATION OF POTENTIAL COMMODITIES OF WEST SUMATRA PROVINCE

48. Joni Harvadi

THE STUDY ON MAKROBENTHOS AS AN INDICATOR FOR THE PRODUCTIVITY OF POND ECOSYSTEM AT BLANAKAN, SUBANG

49. **Gunarto**

WATER QUALITY CONDITIONS IN INTENSIVE WHITE SHRIMP (Litopenaeus

vannamei) BRACKISHWATER PONDS GIVEN DIFFERENT DOSAGES OF FERMENTED PROBIOTIC

50. Sidi Asih

Indentifying Heritability Quantitative Phenotype Growth Traits of Commoncarp (Cyprinus carpio L.) Rajadanu Strain for to selection programs

51. Sulaeman

52. Genetic variation of the giant tiger shrimp, Penaeus monodon around Sulawesi Waters

53. Sulaeman

Electrophoresis analysis of Mangrove crab Genus Scylla: Methodology and the interpretations

54. Tarunamulia

ASSESSMENT OF LAND OR WATER SUITABILITY FOR SUSTAINABLE COASTAL AQUACULTURE BY UNDERSTANDING THE EFFECT OF CLIMATE CHANGE ON SPATIAL MODELLING OF HYDRO-OCEANOGRAPHIC VARIABLES

55. Erlania

56. IMPACT OF HEAVY METAL TO FISH AQUACULTURE IN FLOATING NET CAGE IN CIRATA RESERVOIR, INDONESIA

57. Iswari Ratna Astuti

58. Management of Sustainable Floating Net Cage Aquaculture on Reservoir. The Case Study of Cirata Reservoir, West Java Province, Indonesia

59. M. Nurhudah

The ecological roles of Anadara sp. In tiger prawn culture system

60. M. Nurhudah

The ability of seaweed to absorb organic and inorganic substances in tiger prawn

61. Stella Kaunang and Remy E.P Mangindaan

A Study on the Hatch-Ability of Rotifer (Brachionus Sp.) Resting Eggs using Disinfectants

62. Yushinta Fujaya and Emma Suryati

Hormonal Approach to Molting Stimulation in the Blue Swimming Crab (Portunus pelagicus)

63. N. Gustaf F. Mamangkey

APPROACHES TO IMPROVE PEARL QUALITY FROM PEARL OYSTERS: WITH A NOTE ON SOUTH SEA PEARLS

Contact

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6. Coelacanth:

Management and Conservation for Sustainable Development

Topic of Coverege

Several important components of management and conservation (i.e. biology, ecology, biogeography, population genetic, dynamics and exploitation/fisheries as well as law/regulation and international/regional initiatives) of Coelacanth.

Objectives

The objectives of this session are:

- 1. Review of existing international, regional and other initiatives to improve the conservation status of coelacanth.
- 2. Biodiversity of coelacanth and its spatial distribution in Indonesian sea waters.
- 3. Review of status of coelacanth in Indonesia.
- 4. Plan of Coelacanth conservation

Speakers

- 1. Sudarto,
 - "WHICH ORIGIN FOR THE SECOND INDONESIAN COELACANTH?"
- 2. Hiroshi Koie,
 - "ANALYSIS OF INDONESIA COELACANTH BY CT SCANING Arief Setyanto, M.App.Sc Status Reports of Coelacanth (Latimeria chalumnae Smith, 1939)"
- 3. Masa Iwata*1, Shinya Yamauchi1, Kenichi Fujii1, Kotaro Yoshimura1, Akira Komoda1, M. Kasim Moosa2, Augy Syahailatua3, Djoko H. Kunarso3, Kawilarang W. A. Masengi4, Ixchel F. Mandagi4, Ping Astony Angmalisang4, Johnny Budiman4, Fransisco P. T. Pangalila4, Yoshitaka Abe1,
 - "Biological Survey on Indonesian Coelacanth, Latimeria menadoensis"
- 4. FORREST A. YOUNG AND C. BEN DAUGHTRY,
 - "USE OF REBREATHER AS A DIVING TOOL TO CONTINUE TO EXPLORE AND STUDY THE DEEP REEF SLOPE, AND SPECIFICALLY THE LIFE HISTORY OF THE COELACANTH"
- 5. Yasuhiko Naito, Nobuyuki Miyazaki and Yoshitaka Abe
 - "Biologging technique for coelacanth research"
- 6. Yoshitaka Abe,
 - "The Coelacanth and Aquariums"
- 7. Shinya Yamauchi*1, Masa Iwata*1, Kotaro Yoshimura1, Akira Komoda1, M. Kasim Moosa2, Augy Syahailatua3, Djoko H. Kunarso3, Kawilarang W. A. Masengi4, Ixchel F. Mandagi4, Ping Astony Angmalisang4, Johnny Budiman4, Fransisco P. T. Pangalila4, Yoshitaka Abe1,
 - "Biota of deep sea around 200m in Sulawesi Island by ROV observation"

- 8. Kenichi Fujii*1, Chiho Nakamura, Masa Iwata*1, Shinya Yamauchi1, Kotaro Yoshimura1, Akira Komoda1, M. Kasim Moosa2, Augy Syahailatua3, Djoko H. Kunarso3, Kawilarang W. A. Masengi4, Ixchel F. Mandagi4, Ping Astony Angmalisang4, Johnny Budiman4, Fransisco P. T. Pangalila4, Asep Mohammaud5, Yoshitaka Abe1,
 - "Educational Exhibition of Indonesia Coelacanth, Latimeria menadoesnsis"
- 9. Mandagi Ixchel Feibie, Hidemi Watanabe, Kanako Koyanagi and Kazutaka Takeshita, "MOLECULAR PHYLOGENETIC ANALYSIS OF COELACANTH (Latimeria menadoensis) LIVING ON AND AROUND MANADO BAY, SULAWESI ISLAND OF INDONESIA"
- 10. Mandagi Ixchel Feibie 1, Hidemi Watanabe1, Kanako Koyanagi1 and Kazutaka Takeshita1,

"MOLECULAR PHYLOGENETIC ANALYSIS OF COELACANTH (Latimeria menadoensis) LIVING ON AND AROUND MANADO BAY, SULAWESI ISLAND OF INDONESIA"

Oral Presenter

1. Hiroshi Koie

ANALYSIS OF INDONESIA COELACANTH BY CT SCANING

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7. Exotic Marine Organism

Topic of Coverege

Biodiversity, Conservation, Breeding and Culture Technology

Objectives

The objectives of the session are to:

- 1. Provide the most recent knowledge on (a) Major environmental problems facing marine exotic organisms in the tropics (biodiversity), (b) Counter measures to problems encountered by coral reefs and their allied organisms for sustainable ecological balance (conservation), and (c) Actions taken to sustain marine organism industry (culture).
- 2. Provide a good forum for scientist, decision makers and other stakeholders to come together to find a common ground and solutions to problems facing the marine exotic animals (finfish, crustaceans, mollusks etc.) and their existence through conservation. It will be also a useful platform to showcase the latest advances of aquaculture research, development and breeding and culture technology of many marine ornamentals in the tropics.

Speakers

1. A. Ruwindjarto

Our Coastal Villages Beyond Adaptation to Climate Change

2. Thomas J. Goreau, PhD

Coral Reef and fisheries habitat restoration in the coral triangle

Oral Presenter

1. 1Zaleha, K., 2Abang Jefri Abang Mansor and 2Hasimah Mohd. Said

Species diversity of Porcellidiidae Sars, 1860 (Copepoda: Harpacticoida) from seagrass bed of Sungai Pulai, Malaysia

2. Awwaluddin

(Perciformes: Blenniidae) based on molecular data

3. Imron, PhD

Evolutionary patterns of Lysin Gene Sequence Confirm Species Integrity of Highly Divergent Indo-Pacific Tropical Abalone, Haliotis asinina

4. Irma Kesaulya

How well do we know the molluscs around Maluku archipelago? Biodiversity of gastropods and molluscs in Ambon and Nusalaut islands of Maluku Archipelago

5. Martin Shi Jie Chew

Spatial aggregation in the boring giant clams (Tridacna crocea) at Tioman Island, Malaysia

6. Mei Lin Neo

Preliminary studies on the larval biology of fluted giant clam, Tridacna squamosa

7. Oh Siew Yong

PRELIMINARY STUDY OF Acetes serrulatus (DECAPODA, SERGESTIDAE) IN THE COASTAL WATERS OF PONTIAN, JOHOR, PENINSULAR MALAYSIA: POPULATION CHARACTERISTICS

8. Pamela Soo

Giant clams in Singapore: past, present and future

9. Sara Nikoo

SPATIAL AND TEMPORAL VARIATION OF COMMERCIALLY JUVENILES FISH FROM MAHSHAHR CREEKS

10. Timery S. DeBoer

Symbiodinium and giant clams (genus: Tridacna): Patterns of distribution across three host species in the biodiverse Bird's Head region of Indonesia

Poster Presentation

1. Hikmah Thoha Nurul Fitriya

Plankton Abundance in Raja Ampat of Papua Province, Indonesia

2. Aida Sartimbul*, Erfan Rohadi

The diversity of molluscs at the coastal zone of Panjang coast, Ngliyep, South of Malang, Indonesia

3. Coralie TAQUET

Genetic connectivity of marine invertebrates in the South-East Asia and West Pacific region, component 1 of the SEA-WP Project

4. Kresna T Dewi, Suhartati M Natsir DAS Ranawijaya

The Diversity of Ostracoda and Foraminifera from East Kalimantan Indonesia (Off Berau and Mahakam Deltas)

5. Mei Lin Neo

Predator-prey dynamics in the fluted giant clam, Tridacna squamosa

6. NUR AZEYANTI NORHASHIM AND SAIFULLAH A. JAAMAN

Boat effects on the behaviour of Indo-Pacific Humpback (Sousa chinensis) and Irrawaddy (Orcaella brevirostris) dolphins in Cowie Bay, Sabah

7. Nur Leena Wong

Relationship between Anadara (Scapharca) gubernaculum community and marine plant coverage on Merambong Shoal, Peninsular Malaysia

8. Nurrahmi Dewi Fajarningsih, Thamrin Wikanta)*, Muhammad Nursid

Indonesian Macroalgae Turbinaria decurrens : Potential Source of Bioactive Compounds for Nutraceutical Products

9. Pamela Soo

Review of giant clam behaviour

10. Sara Nikoo

Species composition of Penaeidae shrimps in bottom trawl landings from Mahshahr Creeks

11. Suhartanti M Natsir

Distribution of Benthic Foraminifera, environmental Factor and Morphology Variation in Seribu Archipelago During Summer and Winter season

12. Media Fitri Isma Nugraha 1)and Gede S. Sumiarsa2

ABUNDANCE OF COPEPOD SPECIES (ORDER: CALANOIDA) AT PAGEMETAN BAY, NORTH BALI

13. Sulistiono, dkk

KEMATANGAN GONAD KEPITING KELAPA (Birgus latro) DI PULAU YOI, MALUKU UTARA

14. Zaleha, K. and Anil Chatterji

ECOLOGICAL SURVEYS ON THE POTENTIAL HABITAT OF MANGROVE HORSESHOE CRAB, CARCINOSCORPIUS ROTUNDICAUDA (LATREILLE) IN THE EAST COAST OF PENINSULAR MALAYSIA

15. Y.G Seah, A.G. Mazlan and G Usup

Phylogenetic Relationship and Morphological delineation of Leignathid from coastal water of Malaysia

16. Nazura zainudin et al

Diversity Manglicolous macrofungi from selected mangrove forest in Penisular malaysia

17. Siti Aisyah Alias, Nazura Z et al

Occurrence of marine fungi in Malaysia and their biological activity

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8. Coral Reef Management

Topic of Coverege

Topics of this special sessions cover the following but not restricted to:

- 1. Coral reef condition, coral population and coral distribution
- 2. Coral and other coral reef organism reproduction, biology and ecology
- 3. Coral disease, bleaching related with pollution and climate change issues
- 4. Coral reef management and restoration effort
- 5. Coral and other coral reef organism trade

Objectives

- 1. Discussing the current issues related with coral reef in the world
- 2. Information resources of the developing management program and the successful effort in managing coral reef in the world
- 3. Initiation place for collaboration program and research to answer the current issue related with coral reefs.

Speakers

1. Suharsono

Overview of the successful of coral reef management and coral reef condition in Indonesia

2. Rili Djohani

Komodo National Park - towards a sustainable World Heritage Site.

3. Des. Alwi Abubakar

Banda's experiences in managing coral reefs for tourism and local economy.

4. Jim PRESCOTT

Against all Odds: Holothurian populations persist under extreme fishing pressure

5. Ove Hoegh-Guldberg, Prof.

Coral reefs in a rapidly heating and acidifying global ocean: reasons for hope and strategies for survival.

6. Terry Done, Dr

Resilience in coral reefs: assessment, diagnosis and management

7. Jamaluddin Jompa, Prof. Dr.

The Fate of Indonesian Coral Reef: Challenge for Community Based and Ecosystem Approach Management

8. Bert W. Hoeksema, Dr.

West-East variation in Indonesian reef coral diversity: lines of division or zone of transition?

9. Mineo Okamoto, Prof. Dr.

Introduction of a new coral reef restoration technology applicable for Indonesia.

10. Gayatri Liley

Working toward a sustainable marine aquarium trade in Indonesia.

11. Eric Borneman

Sustainable Production Methods for Threatened and Desirable Marine Ornamentals

Oral Presenter

1. Carlos G. A. Ormond

Education and its role with co-management to empower sustainable practices in coral reef conservation

2. Ferdinand P. Cruz1* and Abrosius Ruwindrijarto2

MICRO-ENTERPRISE TRAINING AS A METHOD FOR SUSTAINABLE CHANGE IN THE MARINE ORNAMENTALS TRADE

3. Frida Lanshammar

Eco-Tourism Helps Protect Coral Reefs for the Future, more than 10 Years of Private MPA Management of Chumbe Island Coral Park, Zanzibar Tanzania.

4. Raimundo Espinoza (NOAA Fellow), Paul Sturm (CWP), Alexi Boado (CWP), Jennifer Kozlowski (NOAA).

Sea level to 3000 Feet: Watershed Management and Coral Reef Conservation in Southwestern Puerto Rico

5. Heidi Schuttenberg

Understanding and strengthening approaches to effective coral reef governance in Southeast Asia

6. Kazuo Nadaoka

Introduction of a project: "Conservation Strategy based on Regional Reef Connectivity and Environmental Load Assessment in SEA-WP Region"

7. Joeharnani Tresnati

Damage of Gill and Liver of Blue spotted Ray Dasyatis kuhlii (Muller and Henle, 1841) caused by Pb.

8. Laetitia Hédouin1*, Bernardo Vargas-Angel2, Amanda Reichelt-Brushett3 and Ruth D Gates1

Developing tools for assessing the effects of land-based contamination on coral health: a case study focusing on the southeast fringing reef of Molokai

9. Neviaty P Zamani

Perspective on coral reef rehabilitation: How to select the right method which effective and efficient for reef rehabilitation

10. Adonis S. Floren

DISTRIBUTION PATTERNS OF ICHTHYOPLANKTON IN THE SOUTH CHINA SEA AND PART OF THE SULU SEA

11. Arthur R. Bos*1,2,3, Girley S. Gumanao1, Marjho M. Saceda1

Population Development of the Indo-Pacific Beach Star, Archaster typicus (Echinodermata; Asteroidea)

12. Eric A. Treml, Dr.

13. Dispersal pathways: revealing patterns of connectivity and isolation throughout the Coral Triangle

14. Stuart J. Campbell

Herbivory at the heart of reef resilience

15. Clarissa Reboton, Amida Diwata Macansantos and Pablina Cadiz

Recruitment and Recruit Survival of Scleractinian Corals on a Shallow Ship-Grounded Site in Banilad, Dumaguete City, Philippines

16. Diego L. Gil-Agudelo

Abundance, distribution and taxonomic composition of juvenile scleractinian corals at Nuestra Señora del Rosario archipelago, Colombian Caribbean.

17. **Hugh Sweatman**

Decadal dynamics of coral cover on Australia's Great Barrier Reef

18. Igulu MM*,1,2, Nagelkerken I2, Mgaya YD

The potential role of habitat and conspecific cues during settlement by the reef fish species Lutjanus fulviflamma

19. Intan Suci Nurhati

Coral Records of Late 20th Century Warming and Freshening in the Central Tropical Pacific

20. Paul H. Barber1, Ambaryanto2,

Identification and conservation of evolutionary processes in the Coral Triangle biodiversity hotspot.

21. JTI Tanzil1,4 *, BE Brown1, AW Tudhope2, RP Dunne3

Decline in skeletal growth of the coral Porites lutea from the Andaman Sea, South Thailand between 1984 and 2005

22. Minlee Yap, Kakaskasen A. Roeroe, Mineo Okamoto

A new assessment method for coral reefs restoration applied in Nagura Bay, Japan.

23. A. Kunzmann

PHYSIOLOGICAL PERFORMANCE OF GIANT CLAMS (Tridacna maxima, T. squamosa, T. derasa) IN A RECIRCULATION SYSTEM

24. Ambariyanto

Effects of several pollutants on zooxanthellae isolated from three corals

25. Arthur R. Bos*1,2,3, Girley S. Gumanao1

Biological Observations on the Crown-of-thorns-eating Corallimorph Pseudocorynactis sp.

26. Ma. Natalia A. Ciasico,

Structural Typology of Benthic Community and Sedimentation Rate at Selected Reef Sites Surrounding Manicani Island, Guiuan, Central Philippines

27. Nikki Traylor-Knowles1,2,**, Burton Shank1, Rachel Golden1, John Finnerty1, Polyp Lesions: How Do Corals Recover From Small Scale Damage?

28. Peter Alan Todd

Crypsis and polymorphism in the boring clam (Tridacna crocea): potential strategies against visual predators

29. Silvianita Timotius

A review on Ornamental Coral Propagation Effort in Indonesia

30. Dedi Soedharma*1, Beginer Subhan1, Citra Satria1

Ten Years of Research and Development of Coral transplantation in the Thousand Islands

31. Diah Permata W* and Elis Indrayanti

Reproductive activities of four Acroporids Scleractinians from Sambangan Island, Karimunjawa Islands

32. Thamasak Yeemin*, Makamas Sutthacheep, Sittiporn Pengsakun and Se Songploy Trends in Coral reef restoration in Thailand

33. Richard Thomas B. Pavia Jr.1,2

Variations in Growth and Colony Formation Between Color Morphs of Galaxea fascicularis (Linn.): Implications for Reef Restocking and Rehabilitation Practices

Poster Presentation

1. Kee-Alfian ABDUL-ADZIS (Mr.)

 $In\text{-situ Photosynthetic Yield Measurement of Pocillopora damicornis in Pulau Tioman\ ,} \\ MALAYSIA$

2. Agdalena

Indonesia and international Marine aquarium trade

3. Andriwarsa, Sri Turni Hartati

Sites Selection For Artificial Reef At One Thousand Archipelago

4. Edi Rudi1, Syamsul Rizal1, Sayyid Afdhal Elrahimi1, Tasrif Kartawijaya2, Yudi Herdiana 2, Fakhrizal Setiawan2, Shinta T. Pardede2, Stuart J. Campbell2, Jerker Tamelander3

Reef Fish Status in Northern Acehnese Reef Based on Management Type

5. Hawis H. Madduppa12*, Tina Dohna1, Karen von Juterzenka2, Andreas Kunzmann3, Marc Kochzius1

Population-level impacts of collecting 'Nemo' and its host for the marine aquarium trade in Spermonde Archipelago, Sulawesi, Indonesia

6. Hendra Yusran Siry

DEALING WITH CHALLENGING TASKS: DECENTRALIZED COASTAL ZONE MANAGEMENT IN EASTERN INDONESIA

7. Hery Yusamandra, S.Si

IMPLEMENTING OF POSTLARVA REEF FISH COLLECTION AND GROWING-UP TECHNIQUE IN SALEMO ISLAND PANGKEP DISTRICT, SOUTH SULAWESI

8. Karlyn Langjahr

Creation of the Virgin Islands Network of Environmental Educators (VINE) to bridge inter-departmental agencies, NGOs and private sector in the U.S. Virgin Islands and build capacity in marine environmental education.

9. Karlyn Langjahr

Establishment of the St. Croix East End Marine Park to implement NOAA's Local Action Strategies for coral reef management and conservation in the U.S. Virgin Islands.

10. Nur Fadli 1*, Andreas Kunzmann2, Karen von Jutarzenka3

Use of Modified Coral Rubble as Medium for Coral Transplantation

11. Ofri Johan, Ongko Praseno

Comparation of coral mortality on two different places of Piramida artificial reef in Seribu Island

12. Putu Widyastuti AS,SP.i, MSi

Laporan Monitoring Hasil Tangkapan Ikan Hias 2003-2007 Kabupaten Buleleng

13. Rita Rachmawati

ADAPTATION STRATEGY OF CORAL TO PREVENT MORE SEVERE DESTRUCTION UNDER ELEVATED TEMPERATURES

14. Rita Rachmawati

HOW CAN CORAL ABSORB ATMOSPHERIC CARBON?

15. W. Prayogo1, I. Bachtiar2,3,

Coral Colonization on Reef BallTM modules at the Benete Bay, Sumbawa Island, Indonesia

16. Yellen R. A. Lumingkewas, R. Poerbandono

ASSESSMENT OF CORAL CAY stability OF SEMAK DAUN REEF PLATFORM SERIBU ISLANDS, JAVA SEA, INDONESIA

17. Yunaldi Yahya, SP.i

Resource assessment surveys on the reef condition and ornamental fishes 2003-2007 in Buleleng District

18. Muhammad Syahrir, Silvianita Timotius, Mikael P. S. Widodo, Idris, Nugroho S. Wijoyo, & Safran Yusri

Lesson Learned from Coral Reef Ornamental Fisheries Management in Seribu Islands, Indonesia: Beyond MAC Standard

19. Peter J. Rubec, Dr and Ferdinand P. Cruz

Use of Remote Sensing and Geographic Information Systems To Support Spatial Management and Conservation of Marine Resources In Tropical Countries

20. Richard K.F. Unsworth

The risks of seagrass and mangrove exploitation to Indo-Pacific coral reefs'.

21. Hendra Yusran Sirv

THE QUEST OF BETTER COASTAL ZONE MANAGEMENT IN INDONESIA

22. Janny D. Kusen, Youdi J.H. Gumolili

An evaluation of coral reefs condition in Manado Bay, North Sulawesi

23. Girley S. Gumanao*1, Arthur R. Bos1,2,3

Biological and Socio-economic Impacts of MPAs in the Davao Gulf, the Philippines

24. Kakaskasen A. Roeroe, Minlee Yap, Mineo Okamoto.

Present condition and reproduction potential of corals in Bunaken Island, Indonesia

25. Munasik

Pattern of coral larval settlement at Panjang Island, Central Java

26. Tengku Kamil T.F.K, Abdul Rashid M.K. and Redzuan S.A

The Distribution of Hard Coral at Bidong Island, South China Sea Waters, Terengganu, Malaysia

27. Ywee Chieh Tay1*, Peter Alan Todd1 and Loke Ming Chou1

Connectivity of the coral reefs in the Singapore Strait

28. G.J. Fontje Kaligis, Janny. D Kusen

Community Structure of reef-fishes Fam. Chaetodontidae on the Artifical Reef 'ReefBall' in Ratatotok waters Peninsulla, South-West Minahasa, North Sulawesi, Indonesia

29. Gandi Y.S. Purba

STUDY OF SEA SURFACE TEMPERATURE AT PAPUA SEA : CORAL REEF RESILIENCE

30. Joeharnani Tresnati

Biology Reproduction of Squid (Sepioteuthis lessoniana Lesson, 1830) in North Galesong Waters, Takalar Regency, South Sulawesi.

31. Jarina Mohd Jani

THE PLACE OF ARTIFICIAL REEFS IN THE LIVES OF TERENGGANU FISHERFOLKS

32. Fuad A. Al-Horani

Strategies for mitigation the coral reefs' damages caused by the sea based human constructions

33. Otto S.R. Ongkosongo

PROPER DREDGING IS NOT HARMFUL TO CORAL REEFS: THE SERIBU EXPERIENCES, INDONESIA

34. Janny D. Kusen

Biodiversity of Scleractinian Coral at "Reef Ball" (Artificial Reefs) at Totok Peninsula, Southern Minahasa, North Sulawesi

35. Sri Turni Hartati*), Didik Wahju Hendro Tjahjo**) and Isa Nageb Edrus*)

Habitat Rehabilitation Through Artificial Reefs Development to Increase the Carrying Capacity of Coral Reefs Resources at Teluk Saleh, NTB

36. Sascha B.C. Romatzki and Andreas Kunzmann

Gametogenesis Of Four Scleractinian Corals In The Celebes Sea

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9. Marine Biotechnology

Topic of Coverege

Marine Biotechnology, Marine Microbiology, Marine Natural Product, Marine Ecology

Objectives

The primary objective of this session is to build a common understanding on how such climate changes affect the active metabolites produced by marine biota and the strategy used further on the marine biodiscovery.

Speakers

- 1. **Prof. Dr. Johannes Imhoff,** Biomining the treasure of the ocean. Alamat: Marine Mikrobiologie IFM-GEOMAR, Germany; email: jimhoff@ifm-geomar.de,"Biomining the treasure of the ocean"
- 2. **Prof. joern Piel**: Sponge- derived natural products: a whodunit story, University of Bonn, germany. Email joern.piel@uni-bonn.de
- 3. **Prof. Dr. Michiko Namikoshi :** Chemical studies on he defense system of starfish, Tohoku Pharmaceutical University, Sendai 981-8558, Japan ,"Chemical studies on he defense system of starfish."
- 4. **Anthony Wright, PhD:** Marine natural Product research: are the cost and effort worthwhile, Email: adwright@hawaii.edu,

Oral Presenter

1. Agustinus R. Uria1,2, Katja M. Fisch1, Cristian Gurgui1, Sonia van der Sar1, Jörn Piel1

Targeting Gene Sequences Encoding the Biosynthesis of Bioactive Metabolites from the Metagenomes of Marine Sponges

2. Andi Parenrengi, Emma Suryati

The biotechnology research progress on seed production of seaweed Kappaphycus alvarezii and Gracilaria verrucosa.

3. Delianis Pringgenies dan Iin Putriyani

ANTIBACTERIAL POTENCY FROM SIMBIONT BACTERIA OF Photobacterium phosphoreum FROM LIGHT ORGAN OF SQUID Loligo duvaucelii

4. Dian Handayani

Investigation of antibacterial substances from West Sumatran marine sponge, Petrosia nigran

5. Dr.rer.nat. Elmi N. Zainuddin, DES

Exploitation of culturable cyanobacteria to develop pharmaceutical compounds

6. Ekowati Chasanah

Anticancer screening of Indonesian marine organisms and their associated fungi

7. Indra Januar

A Preliminary Study, Fine Chemicals from Nephthea and Sarcophyton in a Local Pressure from Environmental Stressor at Seribu Islands Indonesia

8. Inneke Rumengan

Growth performance of laboratory-cultured Prochloron sp isolated from the host Lissoclinum patella at Manado Bay, North Sulawesi, Indonesia

9. Lenin Arias-Rodriguez, Jeane R. Indy*

CHROMOSOMES ANALYSIS IN THREE NATIVE SPECIES OF Centropomus (PISCES: CENTROPOMIDAE) FROM GULF OF MEXICO AND ITS POTENTIAL FOR ARTIFICIAL HIBRIDIZATION

10. Maggie Kaponyos

Three New Compounds Diterpenes type from soft coral Sarcophyton sp from Indonesia

11. Ocky Karna Randasa

Antibacterial activity of a pigment producing-bacterium associated with Halimeda sp. from land-locked marine lake Kakaban, Indonesia

12. Thamrin Wikanta

Indonesian macroalgae Turbinarian decurrens : potential serach of bioactive compound for nutraceutical product

13. Walter Balansa

Biomedical Prospecting (Bioprospecting) on Indonesian Marine Biodiversity–Where Are We Heading?

14. Weizhu Chen, Ruizao Yi

Detection Technology for Marine Biological Toxin

15. Wilmar Maarisit1, Takayuki Ogi 1,2 and Katsuhiro Ueda

Bioactive Metabolites from Okinawan Marine Organisms

16. Yoshihiro OCHIAI, Hideo OZAWA, and Shugo WATABE

Strategies of aquatic animals for adaptation to ambient temperatures as estimated from the thermal stability of myofibrillar proteins

17. Yosi Bavu Murti

New Manzamine A-antipode derivate from sponge Acanthostrongylophora Ingens collected on Ujungpandang Sea, Indonesia

18. Weizheu Chen and Ruizao Yi

Detection Technology for Marine Biological Toxin

Poster Presentation

1. Ariyanti Dewi

Identification of Indoleamine-2,3-dioxygenase (IDO) inhibitor from the Indonesian marine sponge Aaptos cf. suberitoides

2. Delianis Pringgenies, Ali Ridlo and Kemal TAJ

The Potency antibacterial of bioactive compound of Holothuria atra Extract from territorial water of Bandengan, Jepara

3. Dewi Seswita Zilda

Restriction Fragment Length Polymorphism (RFLP) Analysis of PCR Amplified 16S rRNA of Thermophilic Bacteria Isolated from Marine Environment

4. Dian Handayani

Prelimnary studies on cytotoxic agent isolated from agae Tydemania expeditionis

5. Ema Suryati

The Use Of Sponge Haliclona Sp For Fishery Culture

6. **Ifah Munifah**

Hydrocarbon profile of some Indonesian marine microalgae and its potential for biofuel

7. Kresno Yulianto

Survival rate of Hippocampus kuda Bleeker,1852 on indoor and outdoor seahorse culture at Pari Island

8. Mujizat Kawaroe

Biofuel from Microalgae: Research and Development of the Biomass Production

9. Nuri Fawzya

Exploration of Indonesian marine chitinolytic enzyme and their application

10. Sri Amini

Indonesian Micro-algae: Recent Status for Food, Feed and Bioenergy Potential

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10. Fish Product Processing

Topic of Coverege

Topics of this session cover the following but not restricted to:

• Fish Handling

Methods of fish handling in both artisanal and industrial fisheries as well as assessment of fish quality and shelflife

Fish processing

Fish curing (salting, drying, smoking, marinading), canning, freezing, product development, seaweed processing

Packaging

Fish packaging, labeling, shelflife

• Distribution and Marketing

Fish product distribution and marketing, consumer preferences

• Food safety legislation

Science and risk based approaches to harmoniza tion, application of risk analysis in food control.

Objectives

This symposium is designed to motivate all fish processing plant, research institute and related organization as well as fish product traders to seek continuous improvement of fish handling and processing as well as fish product distribution and marketing.

Speakers

1. Dr. Jose Ramirez,

"Production of like-ham fish products from low valued fish species combining washing and microbial transglutaminase"

Oral Presenter

1. **Boimin**

Functional drink from brown algae (Sargassum Sp)

2. Bagus S. B. Utomo, Ismael Marasabessy and Rizal Syarief

SHELF LIFE OF SMOKED TUNA IN PLASTIC PACKAGING

3. Ellya Sinurat, Murdinah, Bagus S.B. Utomo

Characterization of jelly powder for jelly candy application

4. Tri Winarni Agustini, Herda Bolly, Sudibjono

The effect of bearded croaker fish (Johnius dussumieri Richardson) marinbeef addition using different concentration toward the quality of boiled noodles

5. Rosmawaty Peranginangin

ISOLATION AND CHARACTERIZATION OF GELATIN FROM FISH WASTE MATERIAL. SKIN AND BONE

6. Th. Dwi Survaningrum

EFFECT OF THE ADDITION OF MODIFIED TAPIOCA STARCH AND EGG WHITE TO KAMABOKO MADE FROM SILVER CATFISH (Pangasius sp)

7. Hari Eko Irianto

CHEMICAL AND ORGANOLEPTICAL CHANGES IN "PINDANG CUE" (BOILED SALTED FISH) MADE OF INDIAN MACKEREL (Rastreliger sp) DURING STORAGE AT AMBIENT AND CHILLED TEMPERATURE

8. Jamal Basmal

EFFECT CONCENTRATION OF KCI SOLUTION TO EXTRACT SOLID CARRAGEENAN FROM CARRAGEENAN JELLY

9. Bakti B Sedayu

Modification of Pilot-scale Press Apparatus to Produce Particle Board from Solid Waste of Seaweed Processing

10. Ninoek Indriati

Moulds associated with Indonesian traditional fisheries products

11. Endang Sri Heruwati

Food Safety issues in fishery products intended for local consumption in Indonesia

12. Achmad Poernomo

Assuring seafood safety in Indonesia: what research can contribute

13. Farida Ariyani

The potential uses of natural products as fish preservatives

14. **Dwiyitno**

Traceability system for fish and seafood authentication

15. Endang Sri Heruwati

The potential use of pangium (Pangium edule Reinw) kernel as fish preservative

Poster Presentation

1. Murdinah

SUPLEMENTATION FISH ON PRODUCT EXTRUDED SNACK FOODS

2. Murniyati*, Ijah Muljanah* and Ninoek Indriati

The effects of salted, spiced and starch added on fish finger MADE from Jangilus (Istiophorus gladius) minced fish

3. Ir. Murdinah, MS

PROCESSING OF EDIBLE COATING FROM ALGINATE, GLISEROL WITH GELLING AGENT CaCl2 AND Ca Lactat

4. Rosmawaty Peranginangin

PRODUCT DEVELOPMENT FROM NON ECONOMIC MARINE FISH TO INCREASE IT'S VALUE ADDED

5. Jovita Tri Murtini

Subcronic toxicity effect of formalin residue in fish on the liver of mouse

6. Ifah Munifah

Isolation and characterization of hydrocarbon lipid from marine micro-algae

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11. Marine Entrepreneurship

Topic of Coverege

The topics in this session will focus on but not restricted to Entrepreneurship in fisheries and trade, marine tourism, and marine biotechnology which include:

 Opportunities and challenges, global trend, strategy options available for entrepreneurship development, current and future policies necessary to support development of entrepreneurships, and strategies necessary for strengthening industries.

Objectives

The objectives of this session are to:

- share experience and ideas about developing entrepreneurship in the marine-based industries
- build a common understanding about what marine-based entrepreneurs around the world to do best to create most profitable yet sustainable industries.
- advise policy makers about what should be done to support development of marine-based industries.

Speakers

1. Assoc. Prof. Franz Josef Kahlen

Global Issues in Marine Entrepreneurship

2. Dr. Siegfield Bank

The Emergence of the Marine Biotechnolgy Entreprenuership

3. Susi Pujiastuti

The Challenge of Indonesia Fish Trade Entreprenuership

Oral Presenter

1. Achmad Zamroni

Typical Challenges Facing the Indonesia Marine and Fisheries Small Scale Entrepreneurs

2. Anissa Abubakar

Economic Study on Some Potential Mangrove Areas in Bay Coastal Area in Bontang, East Kalimantan

3. Edi Susilo dan Harsuko Rini

Developing Economic and Coastal Community Finance, Base on Principles of Social Entrepreneurship

4. Giyatmi

Institutional Analysis of Marine Fisheries Agroindustry Development

5. H.M IBRAHIM and M.SHAHRYARI

The Ship Carrying Capacity of the Malacca Strait

6. Harsuko Riniwati dan Edi Susilo

Create Environmental Ethical Code for arine and Coastal Resources Sustainable Management

7. Lia Karmelia Aisya

Shrimp Domination High Value Versus Higher Risk Case Study of Indonesia Shrimp Export

8. Makamas Sutthacheep

Scientific Information for Tourism Development at Kood Island, Gulf of Thailand

9. Pamuji Lestari

Coastal Micro Banking for Empowering Coastal Community in Indonesia

10. Tajerin

Transforming the Global Economic Crisis into Business Oppurtunities for Tuna Industry

11. Tuti Wahyuni

Study of Bio Diesel Physical Chemestry Characteristic as an Alternative for fuel of Fisherman Motorship

12. W. Farid Ma'ruf, Anny Kustantiny, Harnita Hadiastuty

The Development of Seaweed Industry "Cluster" in Indonesia for Improving People Welfare

Poster Presentation

1. Achmad Zamroni

How to Build Entrepreneurship within socio-economically under developed communities: a lesson learned from the traditional fishing community in West Irian Jaya

2. Armen Zulham

Indonesia Mariculture Entrepreneurship Challenge

3. Lia Kamelia Aisya

Indonesia Shrimp Restriction Policy and Its Impact on Export Sustainability to Japan

4. Lia Kamelia Aisya

Is Milk Fish Business Profitable for Indonesia Farmer as an Alternative

5. Polite Dyspriani

Governance Issues in The Development of Fisheries Industry-a Lesson Learned From The Indonesia Shrimp Revitalization Program

6. Sonny Koeshendrajana

Fish Supply Chain of The Nanggroe Aceh Darussalam Fishery

7. Tjahjo Tri Hartono

An Opportunity for Marine Tourism Development in Bangka CPR Management

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12. Ocean Ethic

Topic of Coverege

- Scope and importance of ocean ethics in the context of marine degradation and global climate change (the current relevance of ocean ethics; the late modernity of perspective related to ocean ethics; boundary of ocean communities; ocean ethics and global climate change)
- Ocean ethics discourses for future of marine science and technology (ecology of ocean spatial planning; ecological-economy of marine development; marine protected area management; marine ecotourism development; economic valuation of marine goods and services; local ecological knowledge; common pool resources and ocean management; sustainable of fisheries resources utilization; mining technologies; marine environmental protection).
- Marine resource governance and ocean ethics (power distribution in ocean governance; local indigenous knowledge/ indigenous resources management system; social structure and government roles; civil society development and empowerment; marine resource governance).

Objectives

The objectives of this session are to:

- foster elaborations on various perspectives on ocean ethics;
- communicate views regarding the existence of challenge facing the current ocean ethics;
- communicate views regarding the implication of the existence of ocean ethics on the development of marine resource utilization, technology, governance and policy.

Speakers

1. **Prof. Jun Takeda**

The Important of coral reef Ecosytem as Viewed from Ecological Antropology

Oral Presenter

1. Abdul Goffar

Indonesia's Marine Fisheries at the Cross Roads: Social Reflection and the Basic way forward

2. Arif Satria

Dimensions of Fisheries Empowerment for Marine Conservation

3. Dedi Supriadi Adhuri

Conflict in Decentralized Indonesian Fisheries: Anatomy, Distribution and Consequences

4. Len R. Garces at al

Evaluating the Management Effectiveness of the Marine Protected Areas Network in the Calamianes Islands, Palawan Province, Philippines: Key Results and their Implications

5. Ria Fitriana

Community Participation in MPA Establisment in Indonesia: Lessons for Future Initiatives

6. Rilus A. Kinseng

Ethical Factors in Managing Fishery Resources

7. Sonny Koeshendrajana

Ethical Issue in Inland Fishing: A Lempuing River Fisheries of South Sumatra – Indonesia Experience

8. Umi Muawanah

Does Land Conflict Matter to Farm Productivity

Poster Presentation

1. Agus Heri Purnomo

Saving Both The People and The Environment in the Sidoardjo Mudflow

2. Tjahjo Tri Hartono

Buyat Bay Mining: The Need for Rebuilding Community Life

3. Tjahjo Tri Hartono

Bajo Tribe's Experience in Sustaining Their Tominy Bay Fishery Resources

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13. Social Ecological System Analysis in Ocean and Coastal Governance

Topic of Coverege

Topics of this session cover the following but not restricted to:

§ Vulnerability and resilience of ocean and coastal resources system

- § Adaptive ocean and coastal governance
- § Integrated coastal and ocean governance
- § Disasters management in terms of coastal and ocean system
- § Sustainable fisheries and other ocean resources uses

Objectives

Ocean and coastal resource systems are complex and vulnerable systems. Therefore, any human attempt to make the best of them would certainly need complete understanding on the nature of complexity of the world's ocean and coastal resource system and the follow-on appropriate approaches or treatments. Social-Ecological System (SES) analysis is a scientific relevant tool and concept in this context. Based on SES analysis, adaptive governance aiming at sustainability of ocean and coastal resources uses can be identified more accurately. In this particular session, reports related to and recent progress on the SES-based coastal and ocean governance would be presented. In line with this, the primary objective of this session is to build a common understanding on how such scientific reports as presented in the symposium session can be brought into effective actual policy actions.

The primary objective of this session is to build a common understanding on how scientific experiences on social ecological systems and governance can be brought into effective policy actions.

Speakers

1. Bernhard Glaeser

Social-Ecological Systems (SES) Analysis: A LOICZ Priority Theme

2. Marion Glaser

Transdisciplinary Multi-Agent Modelling for Social-Ecologycal-Systems Analysis: Achievements and potentials

3. Michael Flitner

Social-Ecological Research and Nodal Governance

Oral Presenter

1. Agus Heri Purnomo

In Search of Leverage in the Social-Ecological System of the Jakarta Bay, Indonesia

2. Bernadetta Puspita Devi, S.Pi, MEMD, MAIDS

Key Governance Factors of Integrated Coastal Management at the Local Level, North Sulawesi – Indonesia

3. Brendan Corrigan

SES Analysis of Aru Islands

4. Débora M. De Freitas

Understanding Science-Technology-Management Interfaces of Linked Public

5. **Deborah Cleland**

SimReef and ReefGame: two tools to support integrated ocean research and management

6. **Dr. Andonowati**

Challenges from Climate Change for Integrated Coastal Zone Management

7. Dr. Jamalunlaili Abdullah

Coastal Development Management in Malaysia: Issues and Challenges

8. Dr. Sebastian Ferse

Integrated Mariculture as a Livelihood Option for Coastal Communities: Investigating the Potential for Coral Reef Resource Users in Spermonde/South Sulawesi

9. Hendra Yusran Siry

The Quest of Better Coastal Management Zone in Indonesia

10. Ir. Andi Amri, PhD

Eco-Shrimps: An Innovation for Sustainable Livelihood and Coastal Management

11. Irendra Rajawali

Participatory Agent-Based Model for Social Ecological System in Marine and Coastal Areas

12. Lina Nordlund

Intertidal Invertebrate Collection on Northern Zanzibar, Tanzania

13. Luky Adrianto

Building Sustainability of SES of Shallow Water Ecosystems: The Case of Sea Farming of Semak Daun, Seribu Islands, Jakarta

14. Marthin Lukas

Volcanic Eruptions and the Slow Dissapearance of a Lagoon in South Java

15. Michael Pido

Institutional Aspects for Marine Payment for Ecosystem Services

16. Patrick Sakiusa Fong

Socioeconomic and Governance Impacts of Marine Managed Areas on Local Communities in Fiji

17. Suprajaka1, Sri Lestari Munajati2 and Agung Christianto3

Settlement Growth and Dynamics of the Tropical Coastal Area

18. Susanto Sambasri

Control Systems in our Daily Life

19. Syamsir Andili

Ternate Waterfront City, A sustainable Costal Management Concept

20. Tenny Apriliani

A Lesson Learned from Xiamen-China ICM: How Is It Compatible to the Indonesia Coastal Zone Management Problems?

21. Venda Jolanda Pical, John Haluan, M. Fedi A. Sondita dan Victor Nikijuluw

Performance Evaluation and Existing of Marine Sasi in Molluca Village

22. Zahri Nasution

Social Ecological System of River Floodplain Fisheries in Indonesia

23. Agus Heri Purnomo

Linking governance to the existing Social Ecological System: a lesson learned from the Jakarta Bay

Poster Presentation

1. Agus Santoso Budiharso

Flood Hazard Mapping is an attempt to reduce risk on Coastal Cities

2. Débora M. De Freitas

Resolving tradeoffs between uptream and down stream conservation objectivies in Coastal Catchments of the Coral Triangle

3. Fatriyandi Nur Priyatna

Applied Economic Valuation Methods on Floodplain Resources of Indonesia: Case Study at Lempuing and Pedamaran Sub District, South Sumatera Province

4. Hendra Yusran Siry

Dealing With Challenging Tasks: Decentralized Coastal Zone Management In Eastern Indonesia

5. M. Eko Rudianto, Rido MS Batubara and Yaseri D. Arpitasari

Planning by Community, a Systematic Paradigm to Manage Coastal Area

6. Sastrawidjaya

Typical Characteristics of Social Ecological Systems in the Indonesian Capture Fisheries

7. Siti Hajar Suryawati

Community Resilience Analysis In the Segara Anakan Lagoon, Central Java, Indonesia

8. Tjahjo Tri Hartono

Management Institutional Arrangement of Tomini Bay Coastal Resources

9. Yessy Dewitasari

Management Options for Lemuru Fishery of Bali Strait: A Bioeconomic Approach

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14.0cean Science:

Understanding Land-Sea-Air Interaction for Climate Change Adaptation and Mitigation

Topic of Coverege

El Nino, La Nina, Climate Change effects on Oceanic Systems, Implications of Global Change for Coastal Ecosystems and Sustainable Development, Biogeochemical in Coastal and Shelf, Ocean Carbon and Biogeochemistry, Marine Ecology, Physical Oceanography, Vulnerability of Coastal Systems and Hazards to Society, Coupled Ocean Atmosphere Model

Objectives

From the report of the Intergovernmental Panel on Climate Change on the impacts of climate change shows that climate change is affecting people in various ways: ecosystems, water resources and coastal zones across the world. One of the strategies is increasing research and technological development that supports the program on climate change mitigation and adaptation. This session aims to strengthen understanding of climate change and our capacities to manage and adapt to it. The objectives include:

- 1. Enhancing the understanding of the climate change and its impacts
- 2. Improving the prediction of future evolution of the climate-earth system
- 3. Improving the accuracy of climate information through the modeling techniques and their application to the ocean's life.

Speakers

1. Dr. Michael Spranger

Oral Presenter

1. Mochamad Saleh Nugrahadi, Friedhelm Schroeder

The influence of Brantas River discharge on hydrodynamics and mixing in the Madura Strait coastal water

2. B. Realino, Bambang Sukresno, Herlina Sri Martanti

Sea Surface Temperature Changes in Indonesian Seas Correlation with ENSO and ITF Phenomenon

3. Elaine A. Villaluz

Monthly changes in biomass of green tide-causing algae in two sites at Macajalar Bay, northern Mindanao, Philippines

4. Khafid

Toward to a better Indonesian Bathymetric Model

5. Iwan G. Tejakusuma

Sediment and Suspended Particulate Matter of Jakarta Bay, Indonesia

6. Edison Macusi

Top-down control and spatial variation in a tropical rocky intertidal shore

7. **Denny Wijaya**

Correlation Between Sea Surface Temperature and Tropical Cyclone in Indonesia Region

8. Dr. rer. nat. Poerbandono

Turbidity Dynamics on Lagoon of Semak Daun Reef Platform Seribu Islands, Java Sea, Indonesia

9. Thomas F. Pattiasina

Assessment of the Impact of Sea Level Rise in the City of Sorong, West Papua, Indonesia

10. **Teja Arief Wibawa**

Understanding the Abundance of Pelagic Fish in Bali Strait during Southeast Monsoon

11. Komang Iwan Suniada, Nyoman Dati Pertami

Seasonal Distribution of Total Suspended Matter in Sumbawa Sea

12. Dwiyoga Nugroho ,Wahyu W. Pandoe

The Application of Hydrodynamics and Transport Model To The Perancak Estuary, Jembrana District, Bali - Indonesia

13. Elvan Ampou, Frida Sidik, Candhika Yusuf, Nyoman Dati, Nuryani Widagty Affandi Asri

Marine Ecological Assessment in Bali and East Lombok Coast

14. Lamona I. Bernawis, Hadikusumah

Microstructure to vertical heat flux of double diffusive convection in Makassar Strait

15. Radjawane, Ivonne M, Safwan Hadi and Meita Riana

Seasonal Variability Of Physical-Chemical Ecosystem Parameters In Maluku Sea And Its Adjacent Waters

16. Angmalisang, P.Astony, Budiman, Johny, Pangalila Fransisco, Masa Iwata, Shinya Yamauchi

Temperature and Salinity Profile in Manado Bay

17. Chen Zhi-hua, SHI Xue fa, MENG Xian-wei

Sm-Nd Isotopes in Clay Fraction of Surface sediments from The Western Arctic Ocean : Implications for Sediment Sources and Marine Circulation

18. Ruixiang Li, Xinming Pu, Zongli Wang, Mingyuan Zhu

Planktonic Community succession in the past five dacades in the Yellow Sea : to What Extent is climate Change Responsible

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15. Ocean Observing System

Topic of Coverege

In this session we invited the speaker to describe about

- 1. In situ and Space-Based Measurements of Ocean Climate Change
- 2. Operational Oceanography : Assimilation, Modeling, and Applications in the Global Ocean and in Coastal/Estuarine Ecosystems and Living Marine Resources
- 3. Operational Oceanography: Observing System Design & Implementation
- 4. Operational Applications of Ocean Satellite Observations
- 5. Ocean Circulation Using Satellite Gravimetry and Altimetry
- 6. Observatories, Operational Oceanography, New Technology
- 7. Education and Outreach Using Ocean Observing Systems.
- 8. Oceanic Measurements: Research progress and Technology
- 9. Sea level Measurement

Objectives

The ocean observing system has been declared by many institutions such as GOOS initiative by IOC (Intergovernmental Oceanographic Commission) for global scope. This System has been used by the ocean and climate research communities to improve our understanding about ocean and its processes. Ocean observing system helps communities to provide accurate descriptions of the present condition, forecast for the future conditions of the ocean dynamic and furthermore analysis of the impact of the ocean dynamic for community.

The Application of this system is not only for the basis for forecasts of climate change, but also can be used for many fields such as coastal area management, disaster mitigation and fisheries and ecosystems. The latest technology is needed to provide continues and real time data such as satellite and in-situ measurement devices

- 1. Review of sustained of ocean observing system in regional and global scale
- 2. Operational oceanography activity and products
- 3. Design for Indonesia operational oceanography
- 4. Introducing technology and application related to ocean observing system

Speakers

1. Cho-Teng Liu et al

Determination of Water Depth with Formosat-2 Multispectral Image

2. Sidney Thurston

NOAA's Global Ocean Observation Program

3. Philipe Gaspar

Forecasting the evolution of Tropical Tuna populations under an IPC Scenario

4. Marc Naije

The Radar Altimeter Database System project RADS

5. Ir.H. Eko Maulana Ali, M.sc

BOOST CENTRE IN WATERS UTILIZATION AT AREA BANGKA BELITUNG PROVINCE

6. Safwan Hadi(1), Nining Sari Ningsih(1), Marthina Dian Utami(1)

Simulation of Storm Surges Caused by Cyclone Jacob in Southern Part of West and Central Java Coastal Waters

Oral Presenter

- 1. **Jingsong YANG, He WANG, Rong ZHANG, Xiaoyan CHEN, Weigen HUANG** Error analysis of Envisat ASAR level 2 algorithm and primary correction
- 2. Liqi Che, Zhongyong Gao, Yuanhui Zhang, ,Xulin Yang, Suqing Xu,Wen Yu, Variations of Air-Sea Fluxes of CO2 for Climate Change Adaptation in the Southern Ocean and the Western Arctic Ocean
- 3. Erwandi

An Experimental Study on Vertical Axis Marine Current Turbine in Indonesian Hydrodynamic Laboratory

4. Warsito (1), Sri Ratna Y (2) and Yatman (2)

Design of Sea Level Measurement Instrument and the Acquisition System Using Personal Computer

- 5. Amiruddin1 Mukti Zainuddin2, Samsu Arif1, A. Galsan Mahie3
 - Numerical Modelling of Wind-Driven Ocean Circulation in Spermonde Archipelago, South Sulawesi Province
- 6. Bayu Priyono1, Nining Sari Ningsih2, Asmi Napitu1,

Geostrophic current derived from altimetry data in indonesian Seas

7. Dr.Agus Hartoko, MSc.

Ocean Observation on SST Variability and Sub-Surface Spatial Analysis off The North Papua (West End Pacific), the Fate of El_Nino 1997 & 2007 and La Nina 2002: Field Measurement, TRITON Buoy and MODIS Satellite Data

8. Dominik Kneer, MSc

The Potential of Kite Aerial Photography (KAP) as a near-earth imaging technology for mapping and monitoring shallow water ecosystems

9. Ridho Hantoro(1), I Ketut Aria Pria Utama(2), Erwandi(3)

Flow Visualization and Shape Mode in the Study of Vortex-Induced Vibration (VIV) and Torsional Vibration (TV) on Vertical-Axis Ocean Current Turbine (VAOCT)

- 10. Suhendar I Sachoemar1, Nani Hendiarti1, M. Sadly1 and Tetsuo Yanagi2 SEASONAL VARIABILITY OF SEA SURFACE CHLOROPHYLL-a AND SMALL PELAGIC FISH IN THE LAMPUNG BAY, SOUTHERN COASTAL AREA OF SUMATERA, INDONSESIA
- 11. JIA Yongjun, ZHANG Jie, YANG Jungang, MENG Junmin

Spatio-temporl Character Analysis of the Kuroshio Frontal Instability in The East china sea

12. Ligi Chen, Zhongyong Gao, Yuanhui Zhang, Xulin Yang, Suging xu,

Variations of Air-Sea Fluxes of CO2 for Climate Change Adaption in The Southern Ocean and Western Aarctic Ocean

13. Linyang Zhan [1] and Liqi cen [2]

Distribution of N2O and its Air-Sea Fluxes in Seawater along Cruise Tracks between 30oS - 67oS and in Prydz bay, Antarctica

14. Song Zhenya, Qiao Fangli

The Establisment of The Atmosphere-wave-Ocean Circulation Coupled Models. The Improvement of CGMs,s Simulations by The wave induced vertical mixing.

15. Xiangnyao Chen, Norden E. Huang, Zhaohua wu

On The Global Sea level Ring Rate

16. Zexun Wei, Guohong fang, Yonggang Wang, and R. dwi susanto

Numerica Asimilation of The Tides in Indonesian Seas

Poster Presentation

1. Asmi marintan Napitu1, Kandaga Pujiana2,

An Introduction to using satellite altimeter for the observation of coastal dynamic in Indonesia seas

2. Bambang Semedi

FORCASTING OF FISHING GROUND OF SHORT MACKEREL (RASTRELLIGER SPP) USING INTEGRATED MODIS SATELLITE IMAGES AND GIS, IN THE MAKASSAR STRAIT, INDONESIA

3. Hsien-Wen Chen et al

Volume Transport in the Taiwan Strait

4. Maryani Hartuti

Identification and Application of Potential Fishing Zone Information in Manado and Its Surrounding Waters

5. Muhamad Sadly et al

The Development and Implementation of Rule Based Expert Systems Based on Remote Sensing Data Fishing Ground Prediction : A Management Tool for Marine Resources

6. Nani Hendiarti et al

Remote sensing investigation of coastal processes and their influences to marine environment changes in Java Sea

7. Rinny Rahmania

: Field Measurement, TRITON Buoy and MODIS Satellite Data

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16.Indonesian Throughflow and Global Ocean Circulation and Climate

Topic of Coverege

What controls the origin of the Indonesian throughflow (ITF)? The effect of the Indonesian throughflow on global ocean circulation and heat exchange with the atmosphere. The important of Indonesian throughflow to the regional and larger scale climate. The processes within the Indonesian seas alter the the profile (temperature, salinity, mass) of inter-ocean stream, coupled to the local sea-air fluxes and mixing environment. Observational strategies. Indonesian throughflow in a general ocean circulation model.

Objectives

The primary objective of this symposium are: to understand the important of Indonesian throughflow to the regional and larger scale climate; to understand the processes within the Indonesian seas alter the the profile (temperature, salinity, mass) of inter-ocean stream, coupled to the local sea-air fluxes and mixing environment; to plan a long term observational strategies; to use as a benckmark for global ocean and climate numerical model.

Speakers

1. Janet Sprintall

Transport Variability in the Exit Passages of the Indonesian Throughflow

2. Susan Wijffels

Intraseasonal Variability in The Indonesian Throughflow Export Straits: Comparison on Instant Observations and The Australian Community Ocean Model (AUSCOM) and Bluelink Ocean Forecasting System

3. Arnold L Gordon

From the tropical Pacific to the Indian Ocean: defining the Indonesian Throughflow

4. Dwi Susanto

Dynamics of Sunda Strait

5. Hendrik M. van Aken

The deep-water motion through the Lifamatola Passage and its contribution to the Indonesian throughflow

Oral Presentar

1. Charina Lyn Amedo-Repollo1, Xavier Flores Vidal2, Cesar L. Villanoy3, Cedric Chavanne4 and Pierre Flament1

HF RADAR observations of coastal currents and upwelling forced by wind stress curl in the lee of the Island of Panay during the northeast monsoon

2. Bernhard Mayer

Long-term numerical simulation of the ITF (1970 – 2006)

3. Kyla Drushka

Indian Ocean Kelvin waves in the Indonesian Throughflow Exit Passages

4. Robin Robertson

Tidal Effects On Circulation on Mixing in The Ombai Strait Region

5. Aditya. R. Kartadikaria

Development of a New Indo-Pacific Ocean Circulation Model and Its Application to Reveal Larval Dispersal Patterns in SEA-WP regions

6. Edvin Aldrian

Sea Air interaction study over the major Indonesian throughflow passage

7. Iskhaq Iskandar

Variability of marine biology near the outflow straits of Indonesia as simulated in a coupled physical-biological model

8. Syamsul Rizal

Modelling of General Circulation in the Andaman Sea

9. **Guohong Fang**

Significant volume, heat and freshwater transports from South China Sea to Java Sea observed in the boreal winter 2007-2008

10. A. Atmadipoera1,5, R. Molcard1, G. Madec1, J. Sprintall2, S. Wijffels3, A. Supangat4

Inflow between Ashmore and north coast of Australian and its impact on Timor Passage Throughflow

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17. Maritime Industry:

Ocean and Coastal Engineering, Ocean Energy, Maritime Surveillance, Shipbuilding Industry

Topic of Coverege

What is the challenge to develop the ocean business entity and how such a large country still very much depends on land sector industry yet own massive marine area like Indonesia can gain

benefit as much as profit from maritime sector. How could the ocean energy potential be harvested with good financial balance sheet.

Objectives

As one of the largest archipelagic country in the world, Indonesian role on marine technology development is not quite significant yet its potential on renewable energy resources from the ocean (wave, tidal, sea wind, sea current, ocean thermal energy conversion) which awaits to be harvested could contribute up to several hundreds giga watts electric energy equivalent. Other maritime sector, to be précised the ocean technology business such as shipbuilding, marine infra structures, ocean cable networking are also far behind another maritime countries. So to speak, from its 7.9 million square kilometers marine area, the contribution to GNP is less than 5 percent.

The primary objective of this symposium is to be one of the most respected meeting place for the maritime related industry and ocean technology community in year 2009

Speakers

1. Mr. Asrin Rafli Haznam

The future of Offshore oil industry in Indonesia, a SWOT analysis

2. Mr. Douglas W. Swain

The future of oil service industry in Indonesia, a SWOT analysis

3. Mr. Arthur Tanudjaja

Potential and Prospect of Salt Industry in Indonesia

Oral Presenter

1. **IKAP Utama cs**

Development of efficient, safer, and environment friendly passenger vessel etc.

2. Bagiyo Suwasono

A Strategic of Labour Productivity to Support Shipyard Competitiveness in Partial Least Square (PLS) Path Analysis: PLS Algorithm and Bootstrapping

3. Handy Chandra

The Fisheries floating port, it's implication on traditional fishing vessel industry

4. Daniel M. Rosyid

RETHINKING DEVELOPMENT PARADIGM FOR THE ARCHIPELAGO INDONESIA : A Preliminary Study

5. Nazery khalid and Margaret Ang

Treasures from the deep: Frontier marine resources

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18. Marine Energy, Mineral and Hazard

Topic of Coverege

Advance the understanding of the Nation's energy and mineral resources in a global geologic, economic, and environmental context, coastal and marine earthquake sources, coastal and marine ground failure and earthquake effects, and tsunami occurrence and effects.

Objectives

The objectives of this symposium are to develop the science base for policy and management relating to a broad array of issues, to describe and understand the geophysics and geologic processes that occur along the Indonesia include hazards related to earthquakes, landslides, and tsunamis.

Oral Presenter

1. Yudi Darlan and Udaya Kamiludin

BIOGENIC GAS FOR UNDERPRIVILEGED COASTAL COMMUNITY: THE KAPUAS DELTA WEST KALIMANTAN

2. Noor C.D ARYANTO and Y. NOVIADI

Contribution of coastal geology information to the coastal characteristic on Nunukan region, East Kalimantan as a border area

3. Totok Suprijo (1) (*), Huda Bachtiar (1), and, Achmad Masduki (2)

Marine Current Energy in the Alas Strait - Indonesia

4. Dr. A. Harsono Soepardjo, M. Eng

Indonesia Potency Renewable Marine Energy

5. Muhammad Alham Djabbar

EXPERIMENT OF LARGE BODY IN STRONG-WAVE

6. Muhammad Alham Djabbar

STRONG-WAVE RESISTANT HYDRODYNAMIC COASTAL BUILDING EXPERIMENT

7. Parabelem ROMPAS

A NUMERICAL MODEL FOR STUDY MARINE CURRENTS IN THE BANGKA STRAIT, NORTH SULAWESI, INDONESIA

8. Ali Arman

Sediment accumulation rates in coastal area of Muria Peninsula (Site Plan of Nuclear Power Plant, Indonesia) elucidated from environmental isotope 210Pb

9. Helfinalis

TOTAL SUSPENDED SOLID AND BOTTOM SEDIMENT AROUND MOROTAI HALMAHERA WATERS

10. Yunia Witasari

Paleoclimate interpretation based on clay mineral contents in the surface sediment of Cirebon waters

11. Safri Burhanuddin1, Florent Hinschberger2, Jacques-André Malod3 and Jean-Pierre Réhault3

Contribution of seafloor morphology to the geodynamics of the Banda Sea, Eastern Indonesia

12. **Triyono**

Tsunami Risk Assessment in Parangtritistis Area, South of Yogyakarta : A Coastal Geography Approach

13. Men Xianwei, Liu yangguang, Zhang Jun, Xia Peng

Terrestrial Supply to the South China Sea and Its Response to Climate Change and Phased uplifts of Tibetan Plateu since The Quaternary: Evidence of Strontium isotope

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Topic of Coverege

The symposium will explore kinds of MARINE TOURISM DIVERSITIES such as marine wild life tourism; diving/snorkeling; cruise industry; marine adventure and sports tourism; marine festivals, events and heritage; etc including the shared best practices and green technologies applied in marine tourism. At the same time, there are discussions about the CONSTRAINT AND THREATS OF MARINE TOURISM DEVELOPMENT and also some REGULATIONS AND POLICIES to harmonize the business with nature.

Objectives

The objectives of this session are to:

- 1. create an environment for discussions and exchanging views on sharing and learning from best practices marine tourism applied promote a sustainable tourism sector that boost the economy and create jobs while at the same time, ensure the protection of the environment and the quality of life of the permanent residents and tourists.
- 2. explore emerging issues and encourage conservation as a best management practice through discussions
- 3. collaboratively explore and develop ways of working together towards marine areas as sustainable destination through promoting, respecting, and protecting the region's shared natural resources.

Speakers

1. Dr. Geoffrey Wall

Integration in the Coastal Zone

- 2. Feishol Hasyim
- 3. Mr. Robin Engel

Recommendations for a Sustainable Marine Tourism Industry

- 4. Prof. James Higham
- 5. Prof. Marc L. Miller
- 6. Sapta Nirwandar

Oral Presenter

1. Arief Rosvidie, PhD

SUSTAINABLE TOURISM DEVELOPMENT OF SERIBU ISLANDS

2. Bet E.S.Lagarense

Challenges For Sustainable Marine Tourism Development; Human Aspects And Cots Threat In Bunaken And Adjacent Waters

3. **Dionisius Bawole and Yolanda. M.T.N. Apituley**Strategy of Tourism Development in Manupitaeng Island, Sangihe Regency

4. Mr. Dita Trisnawan, M. Arch. STD., ST.

COASTAL AND MARINE TOURISM: Between Developments and The Nation's Territory and Integrity

5. Professor Dr. Pedro Fernández

Impacts of Tourism on central coast of vietnam. Hoi An City

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20. Marine Conservation

Topic of Coverege

The symposium will explore several important components of marine conservation such as marine species diversity, habitat condition and degradation, marine protected area, etc, including the shared best practices of marine conservation. At the same time, there are dicussions about the constraint and threat of marine conservation, as well as the regulation and policies.

Objectives

The objectives of this session are to:

- To create an environment for discussions and exchanging experiences in the field of marine conservation.
- To explore the emerging issues in marine conservation
- To collaborate, explore, and develop a cooperation between the participants in the future

Speakers

1. Arnr Redsted Rasmussen, Ph.D

Conservation Of Sea Snakes: How A Deadly Poisonous Predator Needs Help To Survive

2. Dr Ib Svane

The Trawled Habitats of Spencer Gulf, South Australia: Trawl Impacts and Management

3. Dr. Kathe R. Jensen, PhD

Conservation and the "Taxonomic Impediment" in Southeast Asia

4. Prof. Bob Pressey

Three Essential Improvements to Conservation Planning for Effective Management of Marine Biodiversity in The Coral Triangle

Oral Presenter

1. Frederick T. Short

Seagrass as a Global Indicator: SeagrassNet Monitoring Yields Information on Trends in Coastal Health Worldwide

- 2. Toru Shimoda (1), Kouki Fukuoka (1) and Yoshiko Iizumi (2)
 - Load reduction functions of mangroves and Ulva sp. in coastal areas of Ishigaki Island, Japan
- 3. Winata, Catharine K.; R. Samanya; R. Febriana; H.R. Wahyuni; M. Rofiq Dynamics of Hawksbill Turtle Conservation in Bintan, Indonesia
- 4. **Hans de Iongh, Hutomo Malikusworo, Wawan Kiswara and Marloes Moraal** Conservation Strategy and Action plan for the dugong (Dugong dugon) in Indonesia; Implications of climate change
- 5. **Abdul Halim, Hesti Widodo, Tri Soekirman, and Rili Djohani**Stakeholder Perceptions on Marine Protected Area as a Tool for Resource Management:
 Findings from Surveys conducted by The Nature Conservancy in Five MPA sites in

Findings from Surveys conducted by The Nature Conservancy in Five MPA sites in Indonesia

- 6. Hedley S. Grantham, Edward T. Game, Amanda T. Lombard, Alistair J. Hobday, Anthony J. Richardson, Lynnath E. Beckley, Robert L. Pressey, Jenny A. Huggett, Janet Coetzee, Carl D. van der Lingen, Samantha L. Peterson, Dagmar Merkle, Jane E. Alpine and Hugh P. Possingham
 - Conservation planning in spatially and temporally dynamic marine environments: designing a network of pelagic protected areas
- 7. Hilconida P. Calumpong, Amida Diwata L. Macansantos, Janet Estacion, Ma. Rio A. Naguit, Jacinta Lucañas, Adonis Floren and Edna Sabater

Connectivity Among Marine Reserves in Central Philippines as Reflected by Genetic Profiles of Broadcast and Demersal Spawners and Current Studies

- 8. **Yang-Chi Chang, Chun-Te Chen, Hsing-Juh Lin**Marine protected area planning the case of Gaomei wetland
- 9. Craig J. Starger, Rebecca S. Hersch, Ma. Carmen Ablan-Lagman, Mark V. Erdmann, Ambariyanto, Abdul Hamid Toha, Kent E. Carpenter, Paul H. Barber Genetic Connectivity Of Coral Populations Between Two Biodiversity Hotspots: Indonesia And The Philippines
- 10. Alan White(1), Stuart Green(1), Anna Meneses(1), Stacey Kilarski(1), Patrick Christie(2), Barbara Best(3), Giselle Samonte-Tan(4), Kate Newman(5), Caleb McClennen(6), Helen Fox(5), Stuart Campbell(5), Leah Bruce(4)
 Marine Protected Area Networks in the Coral Triangle: Development and Lessons from the Marine Learning Partnership

11. Suzanne Livingstone

Identifying important conservation zones for supporting KBA and MPA designation using species level information in the Coral Triangle

12. Paul H. Barber

Inferring paterns of conectivity and defining conservation priorities in the Coral triangle through the integration of genetics and modelling

13. Kent E. Carpenter

Using IUCN red list assessments as indicators in the Coral Triangle Initiatives

14. Carissa Klein, Natalie Ban, Ben Halpern, Kerrie Wilson, Stuart Kininmonth, Eddie Game, Hedley Grantham, Eric Treml, Maria Berger, Alison Green and Hugh P. Possingham

Prioritizing Land- and Sea-based conservation investments to protect coral reefs in the Coral Triangle

15. Giselle Samonte – Tan

MPA Management Effectiveness: Socioeconomic and Governance Aspects

16. Safran Yusri, Muhammad Syahrir Irfan Yulianto & Yudi Herdiana

Providing access to marine protected areas data and marine related research in Indonesia, through www.konservasi-laut.net

17. Estradivaria, Jan Vermaatb & Leontine E. Beckingc

Trouble or Paradise? A scenario analysis of Berau's coastal zone

18. Maria Beger, Matthew Watts, Romola Stewart, Eddie Game, Carissa Klein, Hugh Possingham

Planning for sustainable development and conservation of marine resources with MARXAN: Zoning, connectivity, risk, and resilience

19. Maria Rio A. Naguit and Hilconida P. Calumpong

Mitochondrial DNA Analysis of the Geographic structure of the Giant Clam, Tridacna crocea As Indicator of Connectivity Among MPAs in Central Philippines

20. Mikel A. Becerro

Functional Diversity in Marine Protected Areas

21. Saleem Mustafa

Conservation Priorities for offsetting climate change effects on Tropical Marine Ecosystem of Borneo

22. Mochamad Indrawan [1] and Suseno[2]

MORE SPACE: ESTABLISHMENT AND GOVERNANCE FOR PROTECTED AREAS, ESPECIALLY SEASCAPES IN EASTERN INDONESIA

23. Kimirei, IA, Nagelkerken, I, Mgaya, YD

Does spatio-temporal variation affect ontogenetic habitat use by mangrove/seagrass-associated coral reef fishes?

24. P. Lestari[1], E.L. Widiastuti[2], A. Djausal[3]

Evaluation on the Margasari Mangrove Conservation - East Lampung Indonesia for Mitigation through Its Potential Coastal Economic Development

25. Rizya L. Ardiwijaya, Tasrif Kartawijaya, Fakhrizal Setiawan, Rian Prasetia, Yudi Herdiana, Sinta L. Pardede and Stuart J. Campbell

Coral Triangle's Last Frontier - An Ecological And Socioeconomic Evaluation Of Proposed Marine Protected Areas In Halmahera, Indonesia

26. **Diego Gil – Agudelo**

Piangua fisheries: communities finding their solutions to environmental problems in Colombia

27. Frida Lanshammar

Eco-Tourism Helps Protect Coral Reefs for the Future

Poster Presentation

1. Anders Knudby

Predation on sea urchins and the effect of a small protected area

2. Rolando B. Cerezo, Shella C. Parreno

Assessment of seaweed production in Pangasinan

3. Rolando B. Cerezo, Ceferino F. Toledo, Shella C. Parreno

Assessment of siganid production in selected coastal towns in Pangasinan

4. Oliver R.T. Paderanga, Janet S. Estacionb, Ron Kirby Manit, Bernardo L. Jasma, Jr.

Coral Community Structure Of The Northeastern And Southwestern Sides Of Camiguin Island. Northern Mindanao

5. Lies Indah Sutiknowati

Abundance of Phosphorus Bacteria in the Banten Bay Seagrass Bed

6. K.D. Simon, A.G. Mazlan, A. Samat2and Z.C. Cob

On the Biology of Archer fishes (Toxotes chatareus, HAMILTON 1822 and Toxotes jaculatrix, PALLAS 1767) inhabiting malaysian estuaries

7. Grantham, H.S., Agostini, V., Wilson, J. and Possingham, H.P.

Toward ecosystem-based management: multi-objective conservation planning for biodiversity conservation and sustainable fisheries in Raja Ampat, Papua.

8. Nurul Huda Binti Ahmad Iskak

Taxonomy and ultrastructure of a phytal harpacticoid copepod Amphiascopsis coralicola (Sewell, 1940) (Harpacticoida:Thalestridae) from Bidong Island, Malaysia.

9. Leslie Callanta, Ma. Louella Dolar and Janet Estacion1

RESIDENCE PATTERNS AND RANGE CHARACTERISTICS OF Tursiops aduncus in the Southern Tañon Strait, Central Visayas, Philippines

10. Jacinta R. Lucañas, Hilconida P. Calumpong and Ma.Rio A. Naguit

Recovery of Damaged Seagrass Community in Banilad, Marine Sanctuary, Banilad Dumaguete City, Oriental Negros, Philippines

11. Azman bin Abdul Rahim

Use of Imange Analysis Software as a tool for selecting and calculating seagrass blades in underwater photograph

12. E.L. Widiastuti

Mangrove Conservation for coastal mitigation model: Case Study of Margasari Village of East Lampung - Indonesia

13. Igulu MM, Nagelkerken I, Mgaya YD3

The potential role of habitat and conspecific cues during settlement by the reef fish species Lutjanus fulviflamma

14. Wawan Kiswara

Seagrasses in Indonesian waters

15. V. Dj. Prasita[1], B. Widigdo[2], S. Hardjowigeno[3], S. Budiharsono[4]

Analisys of The Environmental Carrying Capacity of The Brackish Water Fishponds In The North Coast of Gresik Regency East Java [1]

16. DR. Thomas J. Vanagt

ECOLOGICALLY SOUND WAYS OF COASTAL DEFENCE? SOME EXAMPLES FROM THE DUTCH COAST.

17. Irfan Yulianto, Yudi Herdiana and Stuart J. Campbell

DESIGNING A MARINE PROTECTED AREA NETWORK IN LEMBEH STRAITS, INDONESIA

18. Syafiudin Yusuf, Magdalena Litaay, Jamaluddin Jompa & Dewi Yanuarita Isis hippuris in Bone Bay South Sulawesi: bio-ecological study, status and conservation

challenges

19. Janet S. Estacion[1], Hilconida P. Calumpong[1], Ma. Louella L. Dolar[2], Pablina Cadiz[1] and Edna R. Sabater[1]

Assessment of Dugongs and Their Habitats in Davao del Sur, philippines

20. Angelique Batuna, Mark V. Erdmann, Rezal Kusumaatmadja

Bunaken Management Advisory Board: A Challenge for Collaboratively Manage MPA

21. Farnis Boneka, Fontje G.J. Kaligis, and Staynner Laleleh

Feeding Catagories of Coral Fishes Exploitated by Local Fishermen in Bunaken National Park, North Sulawesi, Indonesia

22. Arthur. Bos

Biological and Socio-economic impacts of MPAs in the Davao Gulf, the Philippines

23. Eric Crandall

Coalescent and Biophysical models of Long Distance Dispersal Dynamics in Neritid Snails

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21. Small Island Development

Topic of Coverege

Small island development (e.g. resources, policy, culture, histories, industry, ethnicity, socio-economic aspects, management, hazard) and climate change will be presented and discussed.

Objectives

The objectives of this session are to:

- 1. Review and discussion on comprehensive understanding of island communities and their environment, as well as political and economic functions of island nations in international communities.
- 2. Establish the sustainable development of small island, to make policy and strategy facing the climate change.

Speakers

1. Drs. Winsulangi Salindeho

MANAGING THE BORDER ZONES AND SMALL ISLANDS OF SANGIHE TOWARDS CONSERVATION REGENCY

2. Elly Engelbert Lasut

Outer Island Economic Development: Talaud's Experience in People Empowerment

Oral Presenter

1. Sensus Wijonarko

WATER BALANCE CALCULATION AND INSTRUMENT ON THE REEF FLAT OF PRAMUKA ISLE, INDONESIA, AFTER CUT AND FILL ACTIVITIES

2. Mone Ive C. Marschiavelli

VULNERABILITY ASSESSMENT CONCEPT FOR SMALL ISLAND: An Adaptive Strategies to Climate Change

3. Gatot Pramono and Rahadiati, A.

Island Directory - An Effort to Manage Indonesian Small Islands

4. Affrudin, E.L. Widiastuti, and T. Dasaluti

Potential and Integrated Management of Small Islands in Pesawaran District of Lampung Province

5. Alexander Soselisa

Management of Small Islands In Indonesia (Case study in Padaido Islands, Regency of Biak Numfor, Papua Province)

6. Kosasih Prijatna

A preliminary approach to estimate small islands vulnerability index to sea-level rise: Indonesian archipelago case

7. Sven Blankenhorn

DEVELOPMENT OF SMALL TO MEDIUM SIZED ENTERPRISES ON SMALL ISLANDS: BEHAVIOURAL CHANGE THROUGH SUSTAINABLE MARICULTURE

8. Abimanyu Takdir Alamsyah

The right of islands countries to survive

9. Verania Andria

Improving Local Economy in Small Islands through Implementation of Energy Generating Technology

10. Wahyu S Hantoro

Sea level variation: threats and responses to the small island and coastal plain area of Indonesian archipelago.

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22. Marine Spatial Planning and Cadastre

Topic of Coverege

The topic tentatively covers the following subjects: (a) policy and regulation, (b) coastal and marine dynamics, (c) boundary delimitation and demarcation, (d) coastal and marine mapping, (e) coastal and marine data infrastructure, (f) coastal and marine hazards and (g) marine cadastre

Objectives

There are complex relationships and interactions between overlapping and often completing rights, restrictions and responsibilities, both in the marine environment and at the land-sea interface. In recent years there has been an increasing awareness of the importance of spatial data relating to the marine environment and the need for a structured and consistent approach to the definition, maintenance and management of offshore legal boundaries. It is within this context that the concepts of a marine spatial data infrastructure (Marine SDI) and a national marine cadastre have gained increasing prominence.

Science, technology, policy and implementation aspects related to the regulation, management and protection of the coastal and marine environment that addresses the multiple, cumulative and potentially conflicting uses of the coastal and marine area is the main concerns of this session. Results and lessons from the cases of marine spatial planning and marine cadastre all over the world are invited.

The primary objectives of this symposium are review and discussion on the latest scientific advancement and policy of marine spatial planning and cadastre.

Speakers

- 1. **Prof. Dr. Roberto Mayerle**Modelling of Coastal Dynamics
- 2. Prof. John R.V. Prescott
 THE DELIMITATION OF INTERNATIONAL MARITIME BOUNDARIES
 BETWEEN STATES

Oral Presenter

1. Gatot Pramono, Suwahyuono, Poniman, A., Suriadi, A.B. and Dartoyo, A.

Development of an Integrated National Marine Spatial Database in Indonesia

2. Chomariyah

The Road to Marine Cadastre : Evolurion of the Concept to Implementation in National Level (Legal Perspective)

3. Otto S.R. Ongkosongo

Lessons Learned From The Indonesia Coast : An Anticipative Thinking In Worse Case Scenario As Response To Sea Level Rise And Erosion

4. Dina Sunyowati

The Legal Framework Of Coastal Management Concerning The Implementation Of Integrated Coastal Management Concept Relating To Sustainable Marine Development

5. Johar Setiyadi

Criterion Of Sea Boundary Delimitation For Support Integrated Sea Resources Management

6. Viv Djanat Prasita

Analysis of the environmental carryng capacity of the brackish water fishponds in the Nort Coast of Gresik regency EastJava

7. BA HAMZAH

Regional Cooperation in managing an enclosed water: The case of the Straits of Malacca and Singapore. The private sector has a moral obligation to contribute to the Aids to Navigation Fund.

8. Engki A. Kisnarti

Nearshore Current Study Using A Quasi 3D Model

9. I Made Andi Arsana

Towards the establishment of a system for the Indonesian Maritime Boundary Delimitation and Maintenance: A Preliminary Proposal

10. Dr. Peter J. Rubec and Ferdinand P. Cruz

Use of Remote Sensing and Geographic Information Systems To Support Spatial Management and Conservation of Marine Resources In Tropical Countries

11. Kresno Buntoro

Geographical position of Indonesia: advantage or disadvantage

12. Lowell B Bautista

The Legal Status of the Philippine Treaty Limits and Territorial Water Claim in International Law: National and International Legal Perspectives

13. Rizki Abdul haris, Andri Hernandi dan Eka Djunarsah

Customary Marine Cadastre in Maluku, Indonesia: Towards Empowermwnt of Local Wisdom for Spatial Management in Archipelagic State

14. **Dr. Sobar Sutisna**

THE TECHNICAL ISSUES OF THE MARITIME BOUNDARY DELIMITATION BETWEEN INDONESIA AND PHILIPPINE

15. FADM Sugeng Supriyanto, Cpt Samiyono, Cdr Trismadi

Coverage and Availability of Indonesian Electronic Navigational Chart

16. Calado, H(*). Alves, F(**). Gamito, T(***). Sousa, L.(**)

Downscaling Marine Spatial Planning debate – from Europe to Small Islands

17. Randolph Willy Hutauruk, Ridwan Sala, Roni Bawole

COASTAL REGION ZONING USING SPATIAL MODEL BASED ON CELL

APPROACH: A CASE OF SPATIAL ARRANGEMENT PLAN FOR KAIMANA COASTAL ZONE

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23. HRD and Capacity Building

Topic of Coverege

This session will cover various issues related to human resources development required in supporting ocean and marine resources management such as coral reef, fisheries and aquaculture as well. The dialogue will include aspects of HRD as seen from technical, social, legal and environmental point of view.

Objectives

The objectives of this session are to:

- 1. review of the "capacity gap" faced by each country relative to the task at hand in this case, ocean as well as marine resources management.
- 2. review of existing international, regional and other initiatives to improve human resources related to ocean as well as marine resources management.
- 3. identify new and emerging issues regarding marine environment and resources management that are of relevance to HRD
- 4. sharing experiences among countries in their HRD program

Speakers

1. Dr. Indra Jaya

Supply and Demand for Fisheries Skilled Labors in Indonesia

2. Prof. Dr. Johannes Hutabarat

Fisheries Training and Education in Indonesia: Current State and Future Perspective

3. Wolfgang Busse

Competitiveness of Indonesian Seafarers – The Value of Public-Private Partnership

Oral Presenter

1. Prof Dr Lucky Sondakh

Compromise and the Increase of Power: A Political Economic Approach in Designing An Effective Post Mining Program in A Coastal Ecosystem

Contact

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24. Marine Pollution

Topic of Coverege

Pollution impacts due to land-based substances, impacts of submarine tailings disposal (STD), wastewater management, pollution control technology, monitoring standart and protocol, mitigation and management measure of pollution impacts.

Objectives

The primary objective of this session is to review and disccussion on new research finding and lastest scientific advancement on pollution control, synthesis of mitigation measure and management to protect the marine environment, and report the status of global coastal marine areas.

Speakers

1. Dr Björn Dahlbäck

The challenge to find new sustainable solutions for antifouling on ships

2. Judith Weis

The State of the World & Oceans

3. Nobuyuki Miyazaki

What is the best way to resolve marine pollution issues?

4. Yoshiaki Yasuda, PhD

Mercury Deposit Distribution in Minamata Bay

Oral Presenter

1. Dr. Fanny HOULBREQUE.

109Cd: A great tool to study the problem of cadmium contamination in the chilean blue mussel Mytilus chilensis

2. Dr. Rohani AMBO RAPPE

Population and Community Level Indicator in Assessment of Heavy Metal Contamination in Seagrass Ecosystem

3. Dr. Daniel LIMBONG

Total mercury in muscle of fishes from contaminated coastal waters of North Sulawesi, Indonesia

4. Dr. Inneke RUMENGAN

Zooplankton as bioindicator for organotin contamination in aquatic environment

5. Dr. Zainal ARIFIN

Geochemistry of heavy metals (Pb, Cr and Cu) in sediment and their potential bioavailability in Berau estuarine, East Kalimantan, Indonesia

6. Dr. Seno ADI

The impact of river input to the coastal ecosystem of Jakarta Bay

7. Mr. Craig CARTER

STOP (Stern Tube Oil Pollution)

8. **Dr. Thomas POHLMANN**

Simulation of organic pollutants in the North Sea: First step towards an adaptation to the Malacca Strait

9. Dr. Peter KELDERMAN

Sources of Pollutants and Source Protection Measures in Tondano River Basin Territory, North Sulawesi, Indonesia

10. Dr. Agus SUDARYANTO

Assessment of persistent toxic substances in Jakarta Bay, Indonesia with special reference to brominated flame retardants and polychlorinated biphenyls

11. Dr. Tomohiko ISOBE

Contamination Status and Accumulation Profiles of Brominated Flame Retardants in Eastern and Western Boundary Current Ecosystems of the North Pacific Ocean

12. Mr. Muhammad ILYAS

Contamination by Brominated Flame Retardants in Surface Sediments from Coastal Waters of Surabaya: Levels, Distribution and Profiles

13. **Prof. Wolfgang BALZER**

Pollutant metal run-off from a tropical river system (Siak river, East Sumatra), their estuarine modification and coastal zone distribution

14. Dr. Mohamad Pauzi ZAKARIA

Historical profiles of polycyclic aromatic hydrocarbons (PAHs), sources and origins in dated sediment cores from Port Klang, Straits of Malacca, Malaysia

15. Dr. Takaomi ARAI

Coastal pollution and bioaccumulation of persistent organochlorine compounds in the Asian waters

16. **Dr. Hiroya HARINO**

Antifouling biocides contamination in marine environment from Japan

17. **Dr. K. INOUE**

Environmental monitoring using medaka fishes in the genus Oryzias

18. Dr. Ahmad ISMAIL

Java Medaka (Oryzias Javanicus) Culture as Test Organism in the Laboratory

19. **Dr. M. KINOSHITA**

An attempt to evaluate estrogenic compounds contamination in Southeast Asia with transgenic medaka

20. Mr. Dung LE QUANG

Heavy metals in a tropical eel Anguilla marmorata from the central part of Vietnam

21. Prof. Che Abd Rahim MOHAMED

Enrichment model of natural and artificial radionuclides in the southern South China Sea

22. Dr. Gullaya WATTAYAKORN

Ambient concentrations of polychlorinated biphenyls (PCBs) and organochlorine pesticides in selected Thai estuarine sediments and mussels

23. Dr. Marina M. BASOVA

FISH ERYTHROCYTES CATECHOLAMINES AS THE INDICATOR OF POLLUTION

24. Dr. Kei NOMIYAMA

Accumulation characteristics of hydroxylated polychlorinated biphenyl (OH-PCB) congeners in the blood of marine mammals and human

25. Prof. Maricar S. PRUDENTE

Monitoring Network on Marine Pollution: Issues and Plans

26. Dr. Pedro HERVÉ-FERNÁNDEZ

109Cd: A great tool to study the problem of cadmium contamination in the chilean blue mussel Mytilus chilensis

27. Prof. B. G. KULKARNI

Present Status of Coastal Pollution in and Around Mumbai (WEST COAST OF INDIA)

28. Prof. Nicholas KATHIJOTES

Evaluation and Control, of Marine Pollution due to Land-Based Activities - A Preview of the Cyprus Case

29. Mr. John Dempsey

Human health assessment focussing on metal intakes through consumption of fish and other seafood

Poster Presentation

1. Dr. Khusnul YAQIN

Potential Use Of Cholinesterase Activity From Tropical Green Mussel Perna Viridis As Biomarkers In Effect-Based Marine Monitoring In Indonesia

2. Dr. Markus T. LASUT

Community's Environmental Knowledge and Attitude for Mitigating Impact of Wastewater Pollution in the Tropical Coastal City of Manado, Indonesia

3. Dr. Yonik Meilawati YUSTIANI

Study on Pollution Load from the Fish Market Wastewater of Lempasing Market, Bandar Lampung, Indonesia

4. **Dr. Grace D. KANDOU**

Point Source of Pollution: Condition and Capacity of Household Wastewater Treatment Systems in the Coastal City of Manado, Indonesia

5. Mr. Imam BACHTIAR

When Submarine Tailings Disposal Becomes A (Good) Choice: Lessons Learned From Batuhijau Mine, Sumbawa Island, Indonesia

6. Mr. Lilik Teguh PAMBUDI

Comparison Of Biofiltration Performance By Three Different Species Of Seaweeds In A Recirculating System

7. Mr. James PULUS

THE STUDY NON POINT SOURCE OF DETERGENT AND PHOSPATE IN MANADO BAY

8. Dr. Henneke PANGKEY

LC50-48 hours of several detergents to Daphnia Sp.

9. Ms. Kristine A. GALARRITA

SHORT-TERM EFFECTS OF THE M/T SOLAR I OIL SPILL ON THE INTERTIDAL INFAUNAL COMPOSITION AND DENSITY

10. Ms. Pablina L. CADIZ

EFFECTS OF BUNKER FUEL AND DISPERSANTS ON MANGROVE SEEDLINGS Avicennia marina (FORSSKAL) VIERHAPPER

11. Capt. Rakish Suppiah

OIL SPILLS-RESPONDING TO THE RISK PORTRAYED IN THE STRAITS OF MALACCA

12. Dr. Alfredo Tomas Ortega OJEDA

Urban EcoSan Utilities a model to help reduce marine pollution in rural and semi-urban communities: The case of AproSanidad Melaque

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25. Wetland and Estuary:

Marginal Ecosystem Conserved For Human Being

Topic of Coverege

This session covers some components of ecosystem and aquatic management related to estuary and wet-land (e.g. biological, chemistry and physical characteristic, dynamics of aquatic organism, terrestrial living organisms, social economic and policy development). The significance of fisheries and aquaculture in the ecosystem, including harvesting techniques and methods will also be discussed.

Objectives

The objectives of this session are:

- 1. Review existing international, regional and other initiatives to conserve wetland and estuary areas as habitat of many aquatic organism.
- 2. Understand biodiversity and dynamic of aquatic organisms of wetland and estuary.
- 3. Review status of wetland and estuary as a potential area for fisheries, aquaculture, and other economic activities
- 4. Share present state of resource utilization and management mechanisms.

Speakers

1. Husnah

Water Quality Degradation Of Wetland: Learning from Musi River

2. Wolfgang Balzer

Trace metal run-off from five major wetland rivers of East-Sumatra to the coastal zone: association with humics

3. **Dede Irving Hartoto**

The Model of Co-Management of Conservation Area in The Indonesia Estuaries : Lessons Learned from Muara Layang, Bangka Belitung

4. Mas Tri Djoko Sunarno, dan Muchlis Kamal

Wetland environments as temporary habitat for various fish assemblages: an adaptation strategy

5. Ngurah N. Wiadnyana

Present Status of green turtle nesting habitat in west java, Indonesia

6. Sri Turni Hartati, M.Si

Habitat rehabilitation using artificial reef for increasing carrying capacities of Saleh Bay, West Nusa Tenggara

7. Ali Suman and A. Indra Jaya Asaad

Estuary management in Indonesia: A Perspective for Inland Fisheries Management

8. Amran Ronny Syam

ESTIMATING OF MUD CRABS POPULATION (Scylla spp) ON THE MANGROVE

WATERS OF MAYANGAN VILLAGE, REGENCY OF SUBANG, WEST JAVA PROVINCE

Oral Presenter

1. Martin Lukas

Volcanic Eruptions and the Slow Disappearance of A Lagoon In South Java

2. Tim Rixen

Dissolved oxygen and its influence on ecosystem functioning in the Siak river, central Sumatra, Indonesia

3. Antje Baum

Dissolved nutrients and carbon exports from East Sumatran peat-draining rivers

4. Aziz Arshad, M. Nurul Amin, Siti Shapor Siraj and Japar Sidik Bujang

Faunal Composition and Temporal Variation of Estuarine Push Net Catches Operating in the Shallow Coastal Waters of Malacca, Peninsular Malaysia

5. Toru Shimoda, Kouki Fukuoka1 and Yoshiko Iizumi

Load reduction functions by mangrove and Ulva. sp in coastal area, Ishigaki Island, Japan

6. Otto S.R. Ongkosongo

The Uniquity of the Indonesian Deltas with the Emphasis on the Diversity of the Java Deltas

7. Herbert Siegel, Iris Stottmeister, Monika Gerth, Thomas Ohde1, Christin Jose, and Joco Samiaji

Characterisation of Coastal Discharge in South-East Sumatera and the Transport in the Adjacent Open Seas

8. Kimirei, IA, Nagelkerken, I, Mgaya, YD

Does Spatio-Temporal Variation Affect Ontogenetic Habitat Used By Mangrove/ Seagrass -Assosiated Coral Reef Fishes?

9. Muhammad Lukman and Wolfgang Balzer

Understanding the fate of organic contaminants in marine and coastal areas for a better and sustainable coastal management: A case study of Polycyclic Aromatic Hydrocarbons in the Siak River, its Estuary and Riau coastal waters

10. Abdunnur and Yoshihara Kiyoshi-Dept. of Aquatic Resources Management, Faculty of Fisheries and Marine Science, UNMUL – Samarinda

Research on the Mangrove Ecosystem: To the Aquatic Production and Thropic Position on Northernside of Mahakam Delta - East Kalimantan Using by Carbon Isotop Ratio Analysis

11. ZHU Genhai [1], XU Hanxiang [2], CHEN Quanzhen [1], XUE Lijan [2], Jin haiwei [2], LIU Zhensheng [1]

Study on Indicator Species of Zooplankton in the changjiang Estuary and Zhoushan fishing Grounds and Adjacent Sea Area of the East China Sea

Poster Presentation

1. Martin Lukas

Volcanic Eruptions and the Slow Disappearance of A Lagoon In South Java

2. Tim Rixen

Dissolved oxygen and its influence on ecosystem functioning in the Siak river, central Sumatra, Indonesia

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Topic of Coverege

This session covers the range of topics related to marine health, undersea and hyperbaric medicine. It is designed for the divers, instructors, hyperbaric technicians, or underwater researchers and especially the doctors, physiologists, physicists, chemists, mathematicians, engineers, or biologists.

Objectives

The objectives of this international session are:

- 1. To gain better understanding about the impacts of ocean related activities such as diving, on human health.
- 2. To set standards/guidelines for either recreational, professional or scientific diving and undersea research procedure based on human health perspective
- 3. To gain awareness regarding the global climate change, particularly sea level rise and ocean warming and their impacts on human health
- 4. To produce recommendation regarding medical preparedness due to the impacts of global climate change such as ocean warming.

Speakers

1. Dr. Vennetia. R. Danes, MSc, PhD

HE EFFECTS OF LONG TERM DIVING TO VESTIBULAR, HEARING AND PULMONARY FUNCTIONS OF TRADITIONAL, DIVERS OF BAJO TRIBE IN NORTH MINAHASA AND SOUTH MINAHASA REGENCIESOF NORTH SULAWESI PROVINCE-INDONESIA

2. Laksamana Dr. M. Guritno, PhD

The Hyperbaric Medicine Particularly Diving Medicine Such As Safety Regulation, And infrastructure Supporting Diving Medicine

3. John Wantania, M.D., SpOG

Marine Health On Pregnancy

4. Drs. Jan-Jaap Brandt Corstius

Let's make the oceans a saferplace; minimum medical education standards for physicians in recreational diving.

5. Dr Peter Germonpré, MD

The medical risks of underwater diving and their control

Oral Presenter

1. Prof. Dr.Med. Thierry Sluysmans

Patent Foramen Ovale, Divers and Decompression Rule

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Cahyadi, M.Si

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27. The Origin Species Theory:

Wallace and Darwin

Topic of Coverege

This session will tentatively covers several subjects: (a) species concepts, (b) evolutionary biology and genetics, (c) adaptation and natural selection, (d) evolution and biodiversity, (e) any others relevant issues.

Objectives

The objectives of this session is to

- Exchange recent knowledge regarding the species theory and the covered topics.
- To explore the emerging issues in biodiversity aspects
- To explore, collaborate and develop a cooperation among participants in the future

Speakers

1. Leontine E. Becking1

The sponge fauna of Indonesian marine lakes and mangroves

2. S. M. Nurul Amin

Population Biology of Acetes indicus (Decapoda: Sergestidae) from the Coastal Waters of Malacca, Peninsular Malaysia

Contact

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28. ASIAN Network for using algae as a CO2 SINK

Seaweed Industry in the context of Climate Change

Topic of Coverege

Various solutions to the problem of against global warming have been proposed. Seaweeds fix a prodigious quantity of CO2. We ferify their mechanism as a CO2 sink and develop seaweed CDM methadologies. Currently, the Asian Pacific Phycological Association launched a Working Group, the Asian Network for Using Algae as a CO2 sink, for the purpose of collaborative R&D on the use of algae to remove CO2.

Objectives

As seaweeds have been recognized for their utility as CO2 sinks, sustainable seaweed aquaculture has become an important prerequisite, and therefore, sustainable seaweed integrated multi-thropic aquaculture could be a practical way to develop a CCRB in coastal waters.

Speakers

1. Ang Put O, Jr.

Diurnal and Seasonal Fluctuation in the Photosynthesis of Some Brown Algae from Hong Kong SAR, China

2. Dang Diem Hong

Effect of irradiation on the protein profile, protein content and quality of agar from Gracilaria tenuistipitata Zhang et Xia (Rhodophyta)

3. Danilo B. Largo

Philippine cultivated seaweeds: How much carbon can they consume?

4. Hack-Churl You

Bio-Ethanol from Red Algae (Rhodophyta)

5. Ik Kyo Chung

The potentialities of the seaweed industry in the era of climate change

6. Siew-Moi Phang

CONTRIBUTION OF SEAWEED MASS CULTURE TO CARBON REDUCTION IN TROPICAL WATERS: THE MALAYSIAN SCENARIO

7. Sung Min Boo

DIVERSITY AND PHYLOGENY OF THE MARINE PULP-PRODUCING ALGA GELIDIALES (RHODOPHYTA)

Contact

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2. Local organizer, Grevo Gerung Faculty of Fisheries Sam Ratulangi University Jl. Kampus Sam Ratulangi, Manado 95115, INDONESIA

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29. Indo-Pacific Ocean Climate Variability

Topic of Coverege

Climate variations on the earth are strongly influenced by climate modes appeared in the Indo-Pacific sector. The El Nino/Southern Oscillation (ENSO) phenomenon has been considered as a major player driving the weather and climate variations in this region. Identification of the Indian Ocean Dipole (IOD) mode has spawned a fresh challenge on the understanding and predictability of the climate variations. The ocean variability plays significant roles in these climate modes and their predictability. This session covers topics associated with any ocean variability in the Indo-Pacific basins related to the climate modes and variability. We welcome all studies based on observations, analyses of available data, and numerical model results. Papers are also invited for related studies on the tropical–extra tropical interactions and other process studies.

Objectives

The main objective of this session is to describe the Indo-Pacific ocean variability in detail and understand mechanisms responsible for the variability, mutual interactions among the climate modes, their influences on local, regional, and global ocean climate systems. This session will help in exchanging new research outcomes and accumulating our knowledge on Indo-Pacific ocean climate variability.

Speakers

- 1. **Dr. Martin Miguez**, Belen Sea level Observation system
- 2. Dr. Mike McPhaden
- 3. **Dr. Patrick Lehodev**
- 4. Prof. Toshio Yamagata

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30. Indonesia-Germany SPICE Programme

Topic of Coverege

The initiative *SPICE* (Science for the Protection of Indonesian Coastal Marine Ecosystems) was developed within the framework of an agreement on scientific and technological cooperation between Indonesia and Germany and addresses the scientific, social and economic issues related to the management of the Indonesian coastal ecosystems and their resources. The programmes are focused on the following research topics:

- 1. Coral Reef-Based Ecosystems and Resources
- 2. Strategies for a Sustainable Use of the Living Resources and Mariculture in the Segara Anakan Lagoon
- 3. Coastal Ecosystem Health
- 4. Marine Natural Products
- 5. Marine Geology and Biogeochemistry
- 6. Governance and Management of Coastal Social-ecological System

Objectives

The symposium is aimed to disseminate the progress of SPICE programme on the focused research topics in addressing the strategic issues related to the Indonesian coastal ecosystems.

Opening Speech

- 1. Dr. Teguh Rahardjo (The Ministry of Research and Technology Indonesia)
- 2. Dr. Gelwynn Jusuf (Agency for Marine and Fisheries Research-Indonesia)
- 3. Mr. Reinhold Ollig (Federal Ministry of Education and Research Germany)

Speakers

- 1. Prof. V. Ittekkot (Germany)
- 2. Dr. Maggy Nugues (Germany)
- 3. Dr. Rachman Syah (Indonesia)
- 4. Dr. Jamaludin Jompa (Indonesia)
- 5. Dr. Tim. Jennerjahn (Germany)
- 6. Dr. Agus Kristijono (Indonesia)
- 7. Dr. Edy Yuwono (Indonesia)
- 8. Prof. Roberto Mayerle (Germany)
- 9. Dr. Endhay Kusnendar (Indonesia)
- 10. Dr. Ketut Sugama (Indonesia)
- 11. Prof. Hans-Peter Saluz (Germany)
- 12. Prof. W. Balzer (Germany)
- 13. Dr. Ali Suman (Indonesia)
- 14. Dr. Joko Samiaji (Indonesia)

- 15. Dr. Tim Rixen (Germany)
- 16. Dr. Seno Aji (Indonesia)
- 17. Dr. Marion Glaser (Germany)
- 18. Dr. Agus Heri Purnomo (Indonesia)
- 19. Dr. Luky Adrianto (Indonesia)

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3. Dr. Claudia Schultz

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31. Ocean Technology Assessment for Global Warming, Geohazard and Natural Resources Inventory

Topic of Coverege

Information about Indonesia Technology Assessment to reduce Greenhouse Gas Emission, natural resources potential in the Celebes Sea, Natural Disaster such as Earthquake, tsunami and landslide in the Celebes Sea and Sourrounding, Tsunami early Warning System (TEWS), Techniques and developed System to provide faster information of Earthquake and Tsunami, Studies on Climate Variation on Indo-Pasific Ocean and their relation with the El Nino/Southern Oscillation (Enso) Phenomenon.

Objectives

The primary Objective of this Sesion is to exchange the recent knowledge of Ocean technology Assessment for global warming, natural resources potential in Celebes Sea, Prediction and Providing faster information of Earthquake, Tsunami, Climate Variability studies based on observation, analyses of available data, numerical model results

Speakers

- 1. DR Kardono (BPPT)
- 2. DR. Aryo Hanggono (BRKP)
- 3. DR.Ridwan Djamalluddin (BPPT)
- 4. DR. Yusuf S. Djayadihardja(BPPT)
- 5. Kenyi Satake(University of Tohuku)
- 6. DR. Nani Hendiarti (BPPT)
- 7. DR.Fadli Syamsuddin (BPPT)
- 8. DR.Wahyu Pandoe(BPPT)
- 9. DR. Danny Hilman(LIPI)
- 10. Ir. Widiatmini Sih Winarti, MSi. (BPPT)
- 11. DR.Asep Suhendra (BPPT)
- 12. DR .Ir. Sadli. (BPPT)
- 13. DR. Andang Bachtiar(BPPT)
- 14. Toshio Yamagata (University of Tokyo)

Oral Presentation

- 1. **Ir Widiatmini Sih Winarti, Msi** *INDONESIA'S TECHNOLOGY NEEDS ASSESSEMNT* (TNA) BACKGROUND, OBJECTIVE AND PROCESS
- 2. **Dr. Ir. Asep Suhendra** "The Development and Implementation of Rule Based Expert System Based on Remote Sensing Data for Fishing Ground Prediction: A Management Tool for Marine Resources"
- 3. **Dr. Ir. Nani Hendiarti, Msc** Remote sensing investigation of different coastal and ocean phenomena in Indonesian Seas
- 4. **Dr. Ir Aryo Hanggono** "INDONESIA'S TECHNOLOGY NEEDS ASSESSMENT OCEAN SECTOR "
- 5. **Dr. Ir Danny Hilman Msc** Geo Hazard in Relation with tectonic active
- 6. **Dr. Ir Andang Bactiar** Overview Of Hidrocarbon Exploration in Frontier areas (Tentative)
- 7. **Dr. Ir. Yusuf Surahman** Tectonic of Celebes Sea in Relation for natural resources

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