

International Symposium on Connectivity of Hills, Humans and Oceans (CoHHO)

## **Integrated ecosystem management from Hill to Ocean**

# **Program**

November 26<sup>th</sup>, 2013

10:00~12:00

Ceremony for 10<sup>th</sup> Anniversary of FSERC, Kyoto University

12:00~13:00    Lunch

12:30~            Registration for symposium

13:00~13:20    Opening Address

by   Yoh Yamashita (EUCoHHO, Kyoto Univ.)

13:20~17:00    Oral Session

**Session1.** Connectivity between ecosystems and its disruption (Inamori Hall)

Chair person : R. Tateno (FSERC, Kyoto Univ.)

13:20~13:50 Keynote speech by John S. Richardson (Univ. of British Columbia)

**[Why We Need to Protect the Forest-Stream Connection to ensure Water Security and Ecosystem Services]**

Chair person : Reiji Masuda (FSERC, Kyoto Univ.)

1-1. Yemi Akegbejo-Samsons (Dept. Agr. Fish. Management, Federal Univ. Agr., Nigeria) : Watershed and Tropical Rain Forest Management Options in Sub-Saharan Africa: Anecdote for Climate Change Mitigation    (13:50~14:10)

1-2. Hoan Hai (The University of Danang, Vietnam) and Le Hoang Son (Danang University of Technology) : Eco-Action21 Implementation in Danang City, VietNam    (14:10~14:30)

1-3. Khan Md. Golam Mostafa\*, Cong-qiang Liu (Institute of Geochemistry, China), Takahito Yoshioka (FSERC, Kyoto Univ., Japan), Marco Minella, Davide Vione

(Univ. degli Studi di Torino, Italy) and Daisuke Minakata (Michigan Technological Univ., USA) : Organic Matter of Hills and Humans Origin: Implications to Harmful Algal Blooms, Microbial Food Web, and Ocean Acidification from Source to Seas (14:30~14:50)

- 1-4. Nicolai Shadrin (Inst. of Biol. of Southern Seas, Ukraine) : A Sea Begins in the Mountains: The Black Sea Cases of the Results from an Altering of Watershed Connectivity by Humans (14:50~15:10)

Coffee Break (15:10~15:30)

Chair person : J. S. Richardson (Univ. British Columbia)

- 1-5. Takuya Sato (GS Science, Kobe Univ., Japan) : The Importance of Resource Pulse Timing to the Response of Aquatic Ecosystems (15:30~15:50)
- 1-6. Lea A. Jimenez, Bernadette J. Nanual\*, John Glenn P. Seniel, Ariel C. Eballe and France Guillian P. Bandigan (RIC XI, DOSCST, Philippines) : Biodiversity Assessment Along the Pujada Bay Corridors for Marine Protected Area Management (15:50~16:10)
- 1-7. M. A. Latif Siddique\*, Claudia Baldwin and R. W. Bill Carter (Sustainability Research Centre, Univ. the Sunshine Coast, Australia) : Are Adaptive Management and Co-Learning Evident in Moreton Bay Marine Park Zoning Plans? (16:10~16:30)
- 1-8. Masanori Ishikawa\*, Satoquo Seino and Hiroshi Tomida (Dept. Urban and Environmental Engineering, Kyushu Univ., Japan) : Horseshoe crab spawning site improvement through watershed-level sand management and beach nourishment, Imazu Tidal Flat, Fukuoka (16:30~16:50)
- 1-9. Shaw Rajib\* (GSGES, Kyoto Univ., Japan) and Noralene Uy (Independent Consultant, Philippines) : Ecosystem based Adaptation for Disaster Resilience: A Participatory Tool (16:50~17:10)

### **Poster Session** (17:00~20:00)

17:10~18:00 core time of poster session

Poster will be exhibited during both days of the symposium.

18:00~20:00 Welcome and Memorial Banquet

At Yamauchi Hall (Shiran-kaikan, Kyoto)

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November 27<sup>th</sup>, 2013

09:00~12:10 Oral Session

**Session2.** Human impacts on watersheds and coastal ecosystems (Inamori Hall)

Chair person: Tomoyuki Nakano (FSERC, Kyoto Univ.)

09:00~09:30 Keynote speech by Takayuki Shiraiwa (Univ. of Hokkaido)

**["Giant Fish-Breeding Forest": a new environmental system linking continental watershed with open water]**

Chair person: Hoang Hai (Univ. of Danang)

- 2-1. Makoto Tani (Dept. Agriculture, Kyoto Univ., Japan) : A Critical Role of the Forest Resilience in the Present Water Cycle (09:30~09:50)
- 2-2. Satoshi Nakada, Takashi Uenaka (Inst. Liberal Arts Sci., Kyoto Univ., Japan), Yoichi Ishikawa (Data Research Center for Marine-Earth Sciences, JAMSTEC, Japan), Katsuhisa Baba (Hokkaido Hakodate Fisheries Experiment Station, Japan), Koji Koyamada (Inst. Liberal Arts Sci., Kyoto Univ., Japan), Toshiyuki Awaji (Headquarters, Kyoto University, Japan), and Sei-Ichi Saitoh (Faculty of Fisheries Sciences, Hokkaido University, Japan) : An integrated analysis of land-ocean linkages to water circulations and cultured productions: A simulation study in Funka Bay, Japan (09:50~10:10)
- 2-3. Shizuka Hashimoto, Shogo Nakamura (GSGES, Kyoto Univ., Japan), Osamu Saito (Institute for Sustainability and Peace, United Nations University, Japan) and Ryo Kosaka (Graduate School of Human and Socio- Environmental Studies, Kanazawa University, Japan) : Land Account for Noto Peninsula from 1976 to 2006: Toward the Assessment of Ecosystem Services (10:10~10:30)
- 2-4. Md. Nazmul Ahsan\*, Sk. Mustafizur Rahman (Fisheries & Marine resources Technology Discipline, Khulna Univ., Bangladesh) and Manjurul Karim (WorldFish, Bangladesh & South Asia Office, Bangladesh) : Evolution of coastal development policy and associated land use pattern in Bangladesh: A trajectory to lost connectivity in the debate over resource degradation and community rights (10:30~10:50)

Coffee Break (10:50~11:10)

Chair person: Takayuki Shiraiwa (FSCNB, Hokkaido Univ.)

- 2-5. Ngo Tung Duc (Hue Univ. Agriculture & Forestry, Viet Nam) : Towards sustainable development of communities from mountains to coastal areas in Bo River Basin (11:10~11:30)
- 2-6. Yemi Akegbejo-Samsons (Dept. Agr. Fish. Management, Federal Univ. Agr., Nigeria) : Wetland uses, community health and livelihood strategies in the Oluwa River Basin, Ondo State, Nigeria (11:30~11:50)
- 2-7. Silvia de Juan Mohan\* (Estacion Costera de Investigaciones Marinas, Chile), Simon Thrush and Judi Hewitt (NIWA, New Zealand) : Increased variability in ecological connectivity as an early warning signal of stress in estuaries (11:50-12:10)

12:10~14:00 Lunch and **Poster Session**

13:00~14:00 Core time of poster session

Poster will be exhibited during both days of the symposium.

14:00~19:10 Oral Session

**Session 3.** Solutions for functioning ecosystems: management for maintaining connectivity in human landscapes (Inamori Hall)

Chair person: B. Nishimura (Univ. Brest, France)

Keynote speech by Denis Bailly (Univ. Brest, France) (14:00~14:30)

**[An economist perspective on blue growth and conservation in the coastal zone ]**

Chair person : Huynh Trung Hai (Hanoi Univ. Sci. Technol., VietNam)

- 3-1. Hebin Lin (Research Institute Humanity and Nature, Japan) : Connecting values: Payments for improving ecosystem services at the watershed scale (14:30~14:50)
- 3-2. Hossain M. Shahadat (University of Chittagong, Bangladesh) : Global Change in Local Place: An Assessment of Fishing Community Resilience to Climate Change at Hatiya Island, Bangladesh (14:50~15:10)
- 3-3. Mariana Core\* and Maria de Lourdes Zuquim (Coll. Architecture and Urbanism, Univ. Sao Paulo, Brazil) : A critical analysis about the influence of the Pre-salt

oil exploitation on the land use in Caraguatatuba, Brazil (15:10~15:30)

- 3-4. Shogo Nakamura, Shizuka Hashimoto (GSGES, Kyoto Univ., Japan), Osamu Saito (Institute for Sustainability and Peace, United Nations University) and Ryo Kosaka (Graduate School of Human and Socio- Environmental Studies, Kanazawa University, Japan) : Historic changes of prefectural provisioning services in Ishikawa, Japan (15:30~15:50)

Coffee Break (15:50~16:10)

Chair person : Ngo Tung Duc (Hue Univ. of Agriculture and Forestry)

- 3-5. Norie Tamura (Research Institute for Natural Capital Co.,Ltd, Japan) : The institutional and management aspects of 'fishery forest' movement -A case study of the tree-planting activity undertaken by the Notsuke Fisheries Cooperative (16:10~16:30)
- 3-6. Mitsuyuki Tomiyoshi\* and Ryo Kohsaka (GS of Human and Socio-Environmental Studies, Kanazawa Univ., Japan), Osamu Saito (UN Univ., Inst. Sustainability and Peace, Japan) and Shizuka Hashimoto (GSGES, Kyoto Univ., Japan) : Designing a research framework of traditional and modern scientific knowledge on Satoyama, mushroom production in Noto Peninsula (16:30~16:50)
- 3-7. Satoquo Seino\* (Dept. Urban and Environmental Engineering, Kyushu Univ., Japan) and Nobuyuki Azuma (Dept. Biol., Hirosaki Univ., Japan) : Local Studies and Formation of Watershed Management Social Systems on Ordinance of Aomori Conservation and Creation of Home Forests, Rivers and Coasts (16:50~17:10)

Coffee Break (17:10~17:30)

Chair person : Akihide Kasai (FSERC, Kyoto Univ.)

- 3-8. Hiroyuki Matsuda (Center for Oceanic Studies of Integrated Education, Yokohama National Univ., Japan) : Marine Management Plan of Shiretoko World Heritage as an Ecosystem Management (17:30~17:50)
- 3-9. Kenneth Kassem (GSGES, Kyoto Univ., Japan), Rebecca Jumin (WWF-Malaysia, Kota Kinabalu, Sabah, Malaysia) and Yoh Yamashita (GSGES, Kyoto Univ., Japan) : Applying the Ecosystem Approach to Fisheries Management in Sabah, Malaysia (17:50~18:10)
- 3-10. Minlee Yap (Research Institute for Humanity and Nature, Japan) : The Road to

Empowerment of PIFWA, a Fishermen Community (18:10~18:30)

- 3-11. Hiroshi Tomida (Dept. Urban and Environmental Engineering, Kyushu Univ., Japan) : Sharing Marine Litter Knowledge Framework with Watershed Environmental Conservation on CBO Network along Tsushima Current (18:30~18:50)

18:50~19:10 Concluding Remarks by T. Yoshioka (FSERC, Kyoto Univ.)

\*presenter

November 28<sup>th</sup>, 2013 **Excursion**

An excursion to the Higashiyama Forest and surrounding areas near Kyoto University campus is planned for the third day. It is the autumn season and we can expect beautiful landscapes and changing leaf colors in old temple gardens.

## Poster Sessions

### 26<sup>th</sup> November 2013

17:00~20:00 Poster Exhibition

17:00~18:00 **core time** of poster session

### 27<sup>th</sup> November 2013

12:10~18:00 Poster Exhibition

13:00~14:00 **core time** of poster session

### Session 1 Poster

P101) Kentaro Honda (Field Science Center for Northern Biosphere, Hokkaido Univ., Japan), Wilfredo H. Uy, Darwin I. Baslot, Allyn D. S. Pantallano (Institute of Fisheries Research and Development, Mindanao State University, Philippines), Yohei Nakamura (GS Kuroshio Science, Kochi University, Japan) and Masahiro Nakaoka (Field Science Center for Northern Biosphere, Hokkaido Univ., Japan) : Movements of Several Commercial Fishes between Coral Reef and Seagrass Bed inside and outside a Marine Protected Area in the Philippines

P102) Darien Danielle Mizuta, Akihide Kasai, Ken-Ichiro Ishii (Dept. Agr., Kyoto

- Univ., Japan), Hitoshi Yamaguchi (Nagasaki Pref. Inst. Environment and Public Health, Japan) and Hideaki Nakata (Nagasaki Univ., Japan) : Effects of Artificial Upwelling on Environment and Reared Oyster *Crassostrea gigas* Conditions in Seihi Bay, Japan
- P103) Jun Shoji (Takehara Fisheries Research Laboratory, Hiroshima Univ., Japan) : Contribution of Freshwater to Fishery Production and Species Diversity in Coastal Ecosystems
- P104) Emily S. Antonio\* and Nicole B. Richoux (Rhodes University, South Africa) : Trophodynamics of Three Common Crustaceans in a Temperate Estuary using Stable Isotope and Fatty Acid Analyses
- P105) Ma'ruf Kasim (Haluoleo University, Indonesia): Maintaining Water Quality and Coral Reef Ecosystem with Seaweed Cultivation in Eastern Indonesia.
- P106) Ryunosuke Tateno (FSERC, Kyoto Univ., Japan) : The Changes in Stream Water Chemistry after Clear-cutting of Forested Watershed Developed on Volcanic Immature Soil in Southern Kyushu, Japan
- P107) Lea AngSinco-Jimenez\*, Bernadette J. Nanual and Ariel C. Eballe (RIC XI, DOSCST, Philippines) : Biodiversity Assessment and Conservation Management in Davao Oriental: From Ridge to Reefs
- P108) Kaori Anbutsu (EUCoHHO, Kyoto Univ., Japan), Tatsuhiko Funahashi, Ken-ichiro Ishii (GS Agriculture, Kyoto Univ., Japan), Akihiko Kasai, Masahiro Ueno and Yoh Yamashita (FSERC, Kyoto Univ., Japan) : Standing Stocks and Productivity of Phytoplankton in the Yura River Estuary
- P109) Satoshi Akiyama (Res. Inst. of Environ., Agri. and Fish., Osaka Pref., Japan), Kenta Watanabe (Coastal and Estuarine Environment Research Group, Port and Airport Research Institute, Japan) and Yoh Yamashita (FSERC, Kyoto Univ., Japan) : Flexible Feeding of a Mysid Shrimp and the Role as a Mediator in a Coastal Food Web
- P110) Yoshihiko Hirabuki (Tohoku Gakuin University, Japan) and Minami-Gamou Ecotone Monitoring Network : Heterogeneity of Huge Earthquake/Tsunami Disturbance and Autonomous Ecosystem Recovery: A Multi-Scale Analysis Across the Sand-Dune Coastal Ecotone
- P111) Taiki Fuji (Dept. Agriculture, Kyoto Univ., Japan), Akihiko Kasai, Masahiro Ueno and Yoh Yamashita (FSERC, Kyoto Univ., Japan) : Mechanisms of the River Ascent of Juveniles Seabass
- P112) Shuhei Matsuyama (FSERC, Kyoto Univ., Japan), Koji Kawamura (Faculty of Environmental Technology, Osaka Institute of Technology, Japan), Shinya Suzuki

- (GS Agriculture, Kyoto Univ., Japan), Keitaro Fukushima, Ryunosuke Tateno, Takeshi Hirai, Shinjiro Sakai, Masahiro Mukai, Takahito Yoshioka (FSERC, Kyoto Univ., Japan) : Effect of Forest Thinning on the Understory Vegetation and the Soil Microbes in an Overgrazed Japanese Cedar Forest
- P113) Tadashi Nakashima, Kazuaki Koide and Keitaro Fukushima (FSERC, Kyoto Univ., Japan) : What happens in a Natural Forest Watershed in Japan
- P114) Tomoko Tsuboi and Ryo Sugimoto (Fukui Prefectural University, Japan) : Temporal and Spatial Changes of Nitrate Sources in Two Contrasting Rivers in Japan
- P115) Yan Yang (United Faculty of Agriculture, Gifu Univ. Japan), Takeo Onishi, Ken Hiramatsu (Fac. Applied Biological Science, Gifu Uni., Japan) and Ryo Sigimoto (Fac. Marine Bioscience, Fukui Prefectural Univ., Japan) : Relationship of Topographic Index and Ecological Index to River Dissolved Organic Carbon Flux
- P116) Shun Takagi, Natsumi Nakanishi, and Maiko Kagami (Fac. Science, Toho Univ., Japan) : Seasonal Dynamics of Terrestrial Spiders and Aquatic Insects in Floating-Leaved and Emergent Macrophyte Zone in Lake Inba
- P117) Naoko Tokuchi, Keitaro Fukushima (FSERC, Kyoto Univ., Japan), Samejima Hiromitsu, Jason Hon (Centre for Southeast Asian Studies, Kyoto University, Japan) : Influences of Land-Use on Stream Water Chemistry in Bintulu Division, Sarawak, Malaysia: Preliminary Results
- P118) Tatsuhiro Funahashi (GS Agriculture, Kyoto Univ., Japan), Akihide Kasai, Masahiro Ueno and Yoh Yamashita (FSERC, Kyoto Univ., Japan) : The Effect of Hydrographic Conditions on the Primary Production in the Yura Estuary, Japan
- P119) Saulius Gulbinskas and Rosita Mileriene (Coastal Research and Planning institute, Klaipeda Univ., Lithuania) : Peculiarities of Bottom Sediments Distribution in Transitional System River Nemunas and Baltic Sea
- P120) Hisako Okada (Institute of Research and Intellectual Property, Meiji University, Japan) and Noboru Kuramoto (Dept. Agr., Meiji Univ., Japan) : Gravel Supplies and Recovery of Floodplain Species Population
- P121) Kenji Hamasaki (KYOUSEI Science Center for Life and Nature, Nara Women's Univ., Japan), Makoto Yamada (Research Institute for Humanity and Nature, Japan), Kaoruko Tanaka (Department of Biological Science, Faculty of Science, Nara Women's Univ., Japan), Masayo Kumaki (KYOUSEI Science Center for Life and Nature, Nara Women's Univ., Japan), Misuzu Aoki (Wetlands International Japan, Japan), Masako Kawane (KYOUSEI Science Center for Life and Nature, Nara Women's Univ., Japan), Yoichi Yusa (Dept. Biological Science,



- Fac. Science, Nara Women's Univ., Japan) and Keiji Wada (KYOUSEI Science Center for Life and Nature, Nara Women's Univ., Japan) : Relationships between Aquatic Animal Assemblages and Environmental Characteristics in 19 Rivers in the Kii Peninsula, Western Japan.
- P122) Yuko Yamashita (Dept. Earth Resources Kyushu University, Japan), Satoquo Seino (Dept. Urban and Environmental Engineering, Kyushu University, Japan), Motoko Kimura and Naoki Kamayama (Tsushima Municipal Government, Japan) : Effects of Tsushima Wildcat Protection on Coastal Environment of Tsushima
- P123) Keiko Noro (Fac. Agr., Meiji Univ., Japan), Mitsuru Ohira (Fac. Agriculture, Tokyo Univ. of Agriculture and Technology, Japan), Michiru Ohnaka and Noboru Kuramoto (Fac. Agriculture, Meiji Univ., Japan) : Effects of Changing Stream Connectivity with the Water Level Fluctuation on the Distribution of Endangered Fish
- P124) Shiho Kobayashi (FSERC, Kyoto Univ., Japan), Satoshi Nakada (Center for the Promotion of Excellence in Higher Education, Kyoto University, Japan), Kei Senbokuya (Ishikawa Prefecture Fisheries Research Center, Japan), Kotaro Harada (GS Agriculture, Kyoto Univ., Japan) and Noriyuki Okei (Ishikawa Prefecture Fisheries Research Center, Japan) : Estimation of the Impact of Terrestrial Water Dynamics on the Coastal Ecosystem: A Case Study in Noto Peninsula, Japan.
- P125) Yusuke Arakawa and Satoquo Seino (Dept. Earth Resources, Kyushu Univ., Japan) : Restoration of Migratory Sweetfish Habitat and Raised Watershed Awareness in Hita Town on the Upper Chikugo River
- P126) M. Shahadat Hossain (Inst. of Marine Sciences & Fisheries, Univ. Chittagong, Bangladesh) : Coastal Ecosystem Modeling for Sustainable Aquatic Food Production in Bangladesh
- P127) Ayu Katayama, Kinuko Ito and Satoshi Katayama (GS Agriculture Science, Tohoku Univ., Japan) : Contribution of Terrestrial Organic Matter to the Growth of Bivalve *Corbicula japonica* in Brackish Water Area
- P128) Keitaro Fukushima (FSERC, Kyoto Univ., Japan), Koji Fukuzaki, Shinya Suzuki, Wataru Hidaka, Azusa Ohtsuki (GS Agriculture, Kyoto Univ., Japan), Masahiro Mukai (FSERC, Kyoto Univ., Japan), Hiroaki Shirasawa (GS Agriculture, Kyoto Univ., Japan), Masahiro Ueno, Naoko Tokuchi and Takahito Yoshioka (FSERC, Kyoto Univ., Japan) : Spatial Distribution and Its Controlling Factors of River Water Nitrate Concentration from Land to Sea
- P129) Hiroyuki Togashi (Tohoku National Fisheries Research Institute, Japan),

Yoshikazu Kato (Center for Ecological Research, Kyoto University, Japan), Naoto F. Ishikawa (Institute of Biogeosciences, Japan Agency for Marine-Earth Science and Technology, Japan), Yukihiro Kohmatsu (FSERC, Kyoto Univ., Japan), Chikage Yoshimizu (Center for Ecological Research, Kyoto University, Japan), Mayumi Yoshimura (Kansai Research Center, Forestry and Forest Products Research Institute, Japan), Nobuhito Ohte (GS Agricultural and Life Sciences, Tokyo University, Japan), Naoko Tokuchi (FSERC, Kyoto Univ., Japan), Ichiro Tayasu (Center for Ecological Research, Kyoto University, Japan): Terrestrial versus Aquatic Resources Contribution to Stream Food Webs with Various Forest Stand Ages: Results from Nitrogen Isotopic Ratios of Amino Acids

- P130) Nobuhito Ohte (Dept. Forest Sci., Univ. Tokyo, Japan), Hiroyuki Togashi (Tohoku National Fisheries Research Institute, Fisheries Research Agency, Japan), Naoko Tokuchi (FSERC, Kyoto Univ., Japan), Ken'ichi Osaka (GS Environmental Sciences, University of Shiga Prefecture, Japan) and Ichiro Tayasu (Center for Ecological Research, Kyoto University, Japan) : Nitrogen Status and its Effects on the Aquatic Food Webs of the Arida River
- P131) Satoquo Seino (Dept. Urban and Environmental Engineering, Kyushu Univ., Japan) : Beach Erosion and Estuary Shrinkage Recall Implication of Legends of Migratory Fish
- P132) Kenta Watanabe (Port and Airport Research Institute, Japan) Akihide Kasai (FSERC, Kyoto Univ., Japan), Koji Fukuzaki (Dept. Agriculture, Kyoto Univ., Japan), Masahiro Ueno and Yoh Yamashita (FSERC, Kyoto Univ., Japan) : Linkage between Coastal Phytoplankton Production and River Discharge in the Yura Estuary, Japan
- P133) Maria Luisa S. Orbita, Maria Lourdes Dorothy G.Lacuna, Abubacar A. Abdullah<sup>1</sup>, Juvelyn S. Demotica, Dennis M. Gilbero, Joan P. Aguhob and Genevieve G. Buot (MSU-Iligan Institute of Technology, Philippines) : Reassessment of Mangroves in Bayug Island after the “Washi” Typhoon Tragedy.
- P134) Ruth Lucero (SPAMAST, Philippines), Cynthia P. Sajot (Surigao del Sur State Univ., Philippines), Elsie J. Cacho and Amparo B. Lopez-de la Cruz (Mein College, Philippines) : Macrobenthic Algae of Mindanao, Philippines

## Session 2 Poster

- P201) Santosh Kumar Sarkar and Ranju Chowdhury (University of Calcutta, India) : Accumulation of Trace Elements in Mangrove Plants of Indian Sundarban

#### Wetland: A Novel Option for Phytoremediation

- P202) Elena Anufriieva and Nickolai V. Shadrin (Inst. of Biol. of Southern Seas, Ukraine) : Hypersaline Lakes and Lagoons in Landscape Connectivity: Results and Consequences of the Human Activities in the Crimea (Ukraine, Black Sea)
- P203) Illisriyani Ismail, Trond Bjorndal (Centre of Economics and Management of Aquatic Resources, University of Portsmouth, UK), and Gordon R. Munro (Dept. Economics, Univ. British Columbia, Canada) : The Threadfin Bream (*Nemipterus* spp.) and the Fisheries Management in Southeast Asia Region.
- P204) Rajarshi DasGupta and Rajib Shaw (GSGES, Kyoto Univ., Japan) : Understanding the Key Linkages between Ecosystem Degradation and Community Resilience: A Case Study from Sundarban Mangroves
- P205) Subrata Sarker and M. Shahadat Hossain (Institute of Marine Sciences and Fisheries, Univ. of Chittagong, Bangladesh) : Impacts of Human Interference on Water Quality at Meghna River Estuary
- P206) B. D. Jimenez, R. Brobo, X. Pilayre, C. Capoy and M. Sarcauga (Mindanao State University, Philippines) : Impact of Small Scale Gold Mining in the Different Compartments of the Marine Ecosystem in Libay, Sibutad Zamboanga del Sur.
- P207) Kyoko Hata (IDEA Consultant, Inc., Japan) and Kisaburo Nakata (Meijyo University, Japan): About "The Material-Recycling Restructuring Plan of Coastal Area (Common name Healthy Plan)"
- P208) Takeo Onishi (Fac. Applied Biological Sciences, Gifu Univ., Japan), Ryo Sugimoto (Dept. of Marine Bioscience, Fukui Prefectural University, Japan), Hiroaki Somura (Fac. Life and Environmental Science, Shimane University, Japan), Jun Yoshino (Fac. Engineering, Gifu University, Japan), Ken Hiramatsu, Kohei Yoshiyama (Fac. Applied Biological Sciences, Gifu Univ., Japan) : How Climate Change and Land-Use Change would Influence on Nutrient Loading to Ise Bay from its Catchments
- P209) Makoto Yamada (Research Institute for Humanity and Nature, Japan), Kenji Hamasaki, Masayo Kumaki, Hitoshi Takamura, Masashi Takada and Keiji Wada (KYOUSEI Science Center for Life and Nature, Nara Woman's Univ., Japan) : Spatial Variation of Water Quality and its Relationship with Land Use in the Kii Peninsula
- P210) Noboru Kuramoto (Sch. Agr., Meiji Univ., Japan) : The Cause of Decline River-Bed Vegetation in the Abe River
- P211) Masakazu Hori and Hideki Hamaoka (National Research Inst. Fisheries Environment of Inland Sea, Fish. Res. Agency, Japan) : Possible Effects of Terrestrial Managements on Seagrass Ecosystem Functionings

- P212) Sayaka Tanamachi (Dept. Earth Resources, Kyushu Univ., Japan), Satoquo Seino (Dept. Urban and Environmental Engineering, Kyushu University, Japan), Yukiko Ashikaga (Mizube ni Asobu Kai, Japan), Masanori Ishikawa (Dept. Urban and Environmental Engineering, Kyushu University, Japan), Yuko Yamashita and Hiroshi Tomida (Dept. Earth Resources, Kyushu Univ., Japan): Comparative Study of Development and Conservation of Watershed and Tidal Flat -Nakatsu and Usa in Buzen Sea, in the Seto Inland Sea
- P213) Satoshi Katayama, Nanako Matsumoto, Ayu Katayama and Kinuko Ito (GS Agr. Sci., Tohoku Univ., Japan) : Nitrogen Stable Isotope of the Black Rockfish -Linkage of Human Activity with Demersal Fish Production-
- P214) Catharine K. Winatha (Archipelago Conservation, Indonesia) : Waste Management System in Tourism Area in Indonesia, Case studies: Bintan, Bali and Bunaken.
- P215) Shadananan Nair (Nansen Environmental Research Centre, India) : Impacts of Natural and Human Induced Environmental Changes in the Coastal Zones of India: New Challenges in the Integrated Coastal Zone Management

### **Session 3 Poster**

- P301) Michelle L. Walsh (National Oceanic and Atmospheric Administration, USA) : Incorporating Connectivity into U.S. Fisheries Management
- P302) Osamu Matsuda (GS Biosphere Sciences, Hiroshima Univ., Japan) : Improving Once Lost Connectivity of Land and Coastal Sea: Trial in Ago Bay with Satoumi Approach and ICM Frame
- P303) Song Youngkeun (Research Institute for Agriculture and Life Sciences, Seoul National University, Korea), Soohyun Jeon and Youngryel Ryu (Dept. Landscape Architecture and Rural Systems Engineering, Seoul National University, Korea) : Changes in Regional Water Balance and its Implication for the Land Use Management ; A Case Study of the Upper Youngsan River Basin in Korea
- P304) Bernadette J. Nanual (RIC XI, DOSCST, Philippines) : Saving Balite Bay: A Cooperative Multi-Sectoral Journey
- P305) Helena Fortunato (Fac. Sci., Hokkaido Univ., Japan) : Integrated Coastal Zone Management: The Panama Case Study
- P306) Eustine M. Lucero, Matias Lucero, Saturnino C. Parcasio, Jr. (LGU-Office of the Municipal Agriculture and Fisheries, Philippines), Michell B. Elemينو and Ruth Lucero (SPAMAST, Philippines) : Sharing Knowledge: A Case of Tagged

Tuna Caught in Philippine Waters

- P307) Rina Tanaka (GSGES, Kyoto Univ., Japan) : How Personal and Regional Characteristics affect Place Attachment
- P308) Rosita Mileriene and Saulius Gulbinskas (Coastal Research and Planning institute, Klaipeda Univ., Lithuania) : Application of Spatial Planning Principles in River- Lagoon - Sea System
- P309) Sarina Bao (GS Agriculture, Kyoto Univ., Japan), Satoshi Hoshino, Shizuka Hashimoto (GSGES, Kyoto Univ., Japan) and Natsuki Shimizu (EUCoHHO, Kyoto Univ., Japan) : A Research on Environmental Awareness of the Residents in Beijing Suburban
- P310) Hiroaki Shirasawa (GS Agriculture, Kyoto Univ., Japan), Hisashi Hasegawa (FSERC, Kyoto Univ., Japan) and Hiroyuki Umegaki (Hyogo Prefectural Forestry and Forest Products Research Institute, Japan) : Managing Timber Supply Chains in Hyogo and Kyoto Prefectures, Japan
- P311) Kyoko Matsumoto, Satoshi Hoshino, Shizuka Hashimoto (GSGES, Kyoto Univ., Japan) and Natsuki Shimizu (EUCoHHO, Kyoto Univ., Japan): The Issue of Management of Drinking Water in Communities -A Case Study in Rural Area, Andhra Pradesh, India-
- P312) Chifune Ohkawa and Takahito Yoshioka (FSERC, Kyoto Univ., Japan) : Survey on Private Forest Owners' Attitude Toward Forest Management : Case Studies in Miyama Town, Kyoto and Niyodogawa Town, Kochi
- P313) Chifune Ohkawa (FSERC, Kyoto Univ., Japan), Masayuki Sato (GS Human Development and Environment, Kobe Univ., Japan) and Takahito Yoshioka (FSERC, Kyoto Univ., Japan) : Survey on Resident Consciousness of Domestic Timber Use
- P314) Devon Dublin (Faculty of Environmental Sciences, Hokkaido Univ., Japan) : Satoyama-Satoumi Ecosystem Management in the Ancient World of the Ainu Peoples of Japan
- P315) Nami Ohkubo (Tokyo Univ. Economics, Japan) and Ayumi Onuma (Dept. Economics, Keio Univ., Japan) : Concerns Over the Business of Coral Restoration in Japan: A Mixture of Fragments and Seedlings is Environmentally and Economically Optimal
- P316) Mariko Abe (NACS-J, Japan) : The Good Practice of Consensus-Building Efforts Among Stakeholders in Coastal Area -Kayo Eco Coast Project, Okinawa –
- P317) Bunei Nishimura, Denis Bailly and Le Floc'H Pascal (Univ. Brest, France) : The Economics of Marine Biotechnology: A Comparative Research Between

France and Japan at the Crossroads of Marine and Terrestrial Activities

- P318) Lea A. Jimenez\*, Bernadette J. Nanual and Ariel C. Eballe (RIC XI, DOSCST, Philippines) : Strengthening Small-Scale Fisheries Management in the Philippines: An Ecosystem-based Fisheries Management Approach in Gulf Towns of Davao Oriental
- P319) Glenn Fernandez and Rajib Shaw (GSGES, Kyoto Univ., Japan) : Youth Participation in Disaster Risk Reduction in Mountain and Coastal Villages of Infanta, Philippines
- P320) Christine Crawford (Institute of Marine and Antarctic Studies, Univ. Tasmania, Australia) : A Collective Effort 2010-12. A Report on Progress of the Natural Resource Management Strategy for Southern Tasmania
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