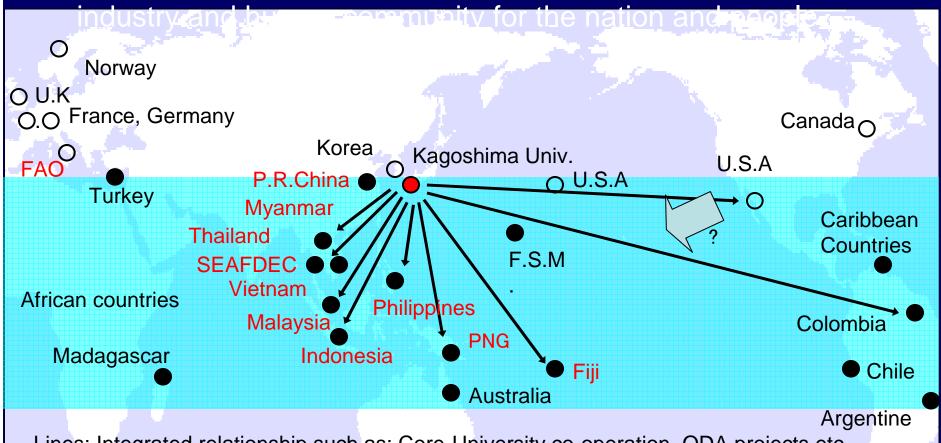
Poverty alleviation through rehabilitation of negative impacts to aquatic environment and fisheries resources in coastal area in Southeast Asia

Tatsuro MATSUOKA Faculty of Fisheries, Kagoshima University, Japan

Tropical and sub-tropical aquatic belt and Kagoshima University

Policy: National universities accumulate and provide scientific information on local characters to face global diversity in nature,



Lines: Integrated relationship such as; Core-University co-operation, ODA projects etc.

- Activities in developing countries
- Activities in advanced countries

Tertiary Fisheries Education Institutes in Japan

at faculty level (Ministry of Education & Sciences

(Fisheries Agency)

at department level

Natinal Fisheries Univ.

BFSci. (185), MFSci.

Nagasaki Univ. Fac. Fisheries

BFSci. (110), MFSci., Dr.Fish

Kagoshima Univ. Fac. Fisheries BFSci. (140), MFSci., Dr.Fish Hiroshima Univ.

Nihon Univ.

Mie Univ.

Kochi Univ.

Miyazaki Univ.

Hokkaido Univ. Fac. Fisheries BFSci. (215), MFSci., Dr.Fish

Kitasato Univ.

Tohoku Univ.

Univ. Tokyo

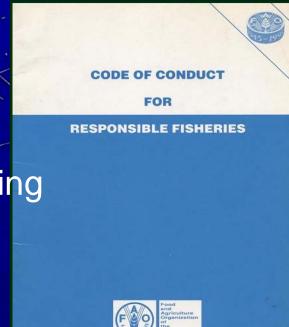
Tokyo Univ. Marine Sci. & Technology

BFSci. (297),

MFSci., Dr.Fish

Negative impacts to and from fisheries industry

- Code of Conduct for responsible fisheries endorsed by FAO in 1995
- Global concern to negative impacts in capture fisheries
 - Destruction of habitat
 - Bycatch and discards
 - Derelict fishing gear and ghost fishing
 - Contamination by aquaculture
 - Post-harvest losses



Development of countermeasure and remediation

International Cooperation: Core-University Exchange

Sponsored by JSPS

Univ. Philippines in the Visayas

Fac. Fisheries, Kagoshima Univ.

Institutes in fisheries in the Philippines

Institutes in fisheries in Japan

Sister core-university programmes in fisheries in Indonesia, Thailand





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Oil Spill Aug 11, 2006 and Research Cooperation

- 2 million liters of bunker fuel from a tanker that sank south of Guimaras, Philippines
- Affects Guimaras, Iloilo and Negros
- Hit Taklong Island with UPV Marine Biological Station/National Marine Reserve





Project components toward enhancement and internationalisation of post-graduate education in the Faculty of Fisheries

Super-goal for Faculty of Fisheries: Establishment of higher education institute in fisheries which contributes the local and global communities, producing high quality man-power in the field of sustainable development of fisheries resources, their rational utilisation and conservation of aquatic environment and producing culture leading the activities related to tropical and sub-tropical waters on the basis of cooperation around Southeast Asia and Pacific regions.

Post-graduate education in Fisheries, Agriculture and Medical/dentistry sciences in the Philippines

E-distant education network in Fisheries in the S.E Asian Region Involvement of postgraduate students in the Formulation of Research and Education Core (JSPS) project

Development of regionally-common subjects on the basis of distant education system and Liaison Office at the University of the Philippines in the Visayas and establishment of the cooperation net-work and centre for post-graduate education in the Region

Proposed model toward poverty alleviation from inferior areas common in Southeast Asia

Terrestrial discharge including substances of negative impacts to coastal waters

- Industry
- Human life
- Agriculture

Land: Expanding poverty in coastal inferior areas

- Inhabitants for poors
- Poor hygiene and malfunction
- Source of fishery products without safety assurance
- Hazard against food security

Aquatic environment conservation

- Food security
- Human health



- Social safety
- Poverty alleviation

Land

Sea

Fish and fishery products

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Sea: Contamination with negative impacts

- Destruction of habitat environment for organisms, e.g. eutolofication
- Disturbance against biological reproduction
- Fish and crustacean diseases
- Ecological changes and negative organisms, e.g. red-tide