14.Fisheries

海域における水産資源の管理及び培養 	Fisheries—Fisheries Resource Management			
Target Countries: Maritime countries		7 participants	/	English
OBJECTIVE	TARGET ORGANIZATION / GROUP			
The objective of this program is as follows: 1. To Understand the following points (1) The method of hatchery enhancement (2) The method of seed-release situation (3) Conservation of the nursery ground and method arrangement of artificial reef (4) The importance of the fishery ground environment (5) The analysis method of environmental chemistry in fishing grounds (6) The method of improvement of coastal fishing ground (7) The statistical method on the evaluation of stocking effectiveness for fisheries resources. 2. To make a Study Report	(1) University graduates or equivalent academic level with over 5 years of work experience (2) Individuals presently engaged in research and/or educational activities in fisheries (3) Individuals in good health to undergo fisheries field work			
CONTENTS	PROGRAM PERIOD	Jun.30.2008~Oct.	26.2008	
This training course is formulated to cover the following programmes in order to obtain basic knowledge, both in theory and practice, of the marine farming: (1) Theory of Community Ecology, (2) Fisheries Pollution	IMPLEMENTING PARTNER	USA MARINE BIO INSTITUTE, KOC	LOGICAL HI UNIVE	Ŕĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸĸ
(3) Environmental Chemistry, (4) Fish Disease	JICA CENTER JICA Shikoku			
 (5) Food nutrition for rearing (6) Preparing of Artificial Reef and Nursery Ground (7) Benthos and Plankton, (8) Hatchery Enhancement(Fish Seeding) (9) Seed- release Situation, (10) Fisheries Genetics (11) Statistical Method on the Evaluation of Stocking Effectiveness for Fisheries Resources, (12) Fish Taxonomy (13) Early Life History at Fishes, (14) Botany at Seaweed A self-study session is prepared for each participant' specialty, such as Fisheries Stock Management, Fisheries Ecology and Environmental Chemistry 	COOPERATION PERIOD	2007~2009		
	REMARKS	Japanese intensi Kochi University		60hours at

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Prevention of Cultured Fish Disease and Fish-Borne Disease 養殖魚の健康と安全管理		GROUP 🗓	0880351
	Fisheries	-Stock Enhancement and	Aquaculture
Target Countries: Countries with coastline or lakes suitable for seafood cultivation		8 participants /	English
OBJECTIVE	TARGET ORGANIZATION / GROUP		
The objective of this program is to deepen the knowledge relevant to hygienic handling of fishes as well as the diagnosis and prevention of fish disease. To attain the objective, participants are expected to achieve the following: (1) To clearly mention the present conditions and problems on aquaculture in each country in the form of an Inception Report. (2) To understand the hygienic handling of aquacultured products. (3) To understand the diagnosis and prevention of cultured fish disease. (4) To suggest a problem—solving plan on aquaculture in each country (Strategy Plan), from the aspects of hygienic handling or preventive measures of fish disease.	[Target Organizations] National or regional governments in charge of promoting aquaculture, fish processing and distribution [Target Group] (1)Administrators in charge of promoting aquaculture, fish processing and distribution for at least 5 years (2)Those who graduated undergraduate and/or graduate university. (3)Those who are excellent in English communication —for example TOEFL CBT Score 250 or above.		
CONTENTS	PROGRAM PERIOD	Aug.26.2008~Oct.31.2008	}
(1) Implementation of Inception Report Presentation (Presentation and Discussion)(2) Technique of Hygienic Handling of Aquacultured Products (Lecture and Practice)	IMPLEMENTING PARTNER	NATIONAL FISHERIES U	NIVERSITY
(3) Seafood Hygiene (Lecture and Practice)	JICA CENTER	JICA Chugoku	
(4) Preventive Measures of Fish Disease(Lecture and Practice)(5) Drafting and presentation of a Problem-solving Plan (Strategy Plan)	COOPERATION PERIOD	2006~2010	
*Besides the classes mentioned above, visits to fish-farmers and a wholesale market is scheduled as a study tour. *Participants are provided with 2-day individual training on the subject of personal interest by choosing from the curriculum, so that they can deepen their understanding on it.	REMARKS		

Fisheries-Stock Enhancement and Aquaculture

TARGET ORGANIZATION / GROUP

10 participants

OBJECTIVE

This program aims to train the participants to become technical experts who are able to plan and implement an appropriate sustainable aquaculture development strategy in order to contribute to the development of environment-conscious and sustainable aquaculture. Upon successful completion of the course, the participants are expected;

- 1) To learn the theoretical knowledge like pathology and fish nutrition and so on
- 2) To acquire practical knowledge and technologies like seed production and grow-out culture, modern technologies of aquaculture, stock enhancement and so
- 3) To gain the ability to devise an appropriate strategy for sustainable aquacultural development in their home countries.
- < Target Group >
- (1) Individuals presently engaged in aquaculture extension or technical work with 3 years of experience or more.
- (2) University graduates or equivalent
- (3) Individuals with a sufficient ability of spoken and written English

CONTENTS	PROGRAM PERIOD	Mar.3.2009~Jun.24.2009
(1) Common Program: Outline of fisheries & aquaculture, role of the FCA, post-harvest treatment, aquatic engineering, aquaculture economics, extension & awareness, fish nutrition, fish feed preparation, biodiversity, environmental	IMPLEMENTING PARTNER	Fisheries & Aquaculture International Co., Ltd
conservation, artificial maturation, biotechnology, fish genetics, gene analysis,	JICA CENTER	JICA Yokohama
parasitic diseases, practical field work in fish pathology, project cycle management, report consultation and presentation (2) Specific Program: (a) Freshwater aquaculture; Culture of common carp and others, gametogenesis and egg-quality, environmental conservation, self-sufficient small-scale aquaculture, case study, integrated aquaculture, field work for seed production (fancy carp, gold fish, grass carp, cat fish, willow gudgeon), site observation (b) Marine Aquaculture; seed production technology, sea farming, morphological anomalies, fish culture (grouper), culture of shrimp, crab, shellfish and seaweed, sustainable marine aquaculture and environmental conservation, sustainable world aquaculture, production and analysis of artificial feed, practical field work of living food organisms culture, site observation	COOPERATION PERIOD	2004~2008
	REMARKS	Midway through the program, the program will be divided to two groups (Freshwater Aquaculture, and Marine Aquaculture)

Coastal Fishing Technique for Sustainable Resource Use 持続可能な沿岸漁業

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Fisheries-Fisheries Resource Management

Target Countries: Maritime countries

6 participants

English

OBJECTIVE

Small-scale coastal fishing by artisan fishers accounts for the majority of the fisheries in developing countries. However, sustainable and effective fishing methods need to be diffused as resources decline. This program aims to enable participants to manage sustainable development and the diffusion of fisheries for the region for which the participants are responsible. To attain this objective, participants are expected to achieve the following: 1) To learn basic knowledge on the structure and capture function of fishing gear, 2) To learn fishing methods predominating in coastal fisheries through practice, 3) To learn the basic fishery resource biology, in particular, of target species in tropical coastal waters, 4) To learn the basic and applied knowledge of management of capture fisheries toward responsible fisheries, 5) To learn model method of proper management of capture fisheries through using one of major fishing gear, and 6) To learn comprehensive technical approaches for the extension and regulations of fishing techniques.

[Target Group]

Ministries in charge of Fishing and FIsh Resources Fisheries Training Institution

TARGET ORGANIZATION / GROUP

[Target Group]

- 1. Individuals with more than 3 years of experience in fishing gear design and operation or engaged in extension service for coastal fishing techniques
- 2. University graduates or equivalent
- 3. Age: Preferably under 40 years old

CONTENTS	PROGRAM PERIOD	Feb.24.2009~Jun.13.2009
1. Introduction to fisheries and management in Japan, introduction to designing fishing gear, etc.: 2. Measurement in fishing technology: Module	IMPLEMENTING PARTNER	KAGOSHIMA University
3. Structure and operation of trawl: Module	JICA CENTER	JICA Kyushu
4. Fishing ground survey and devices: Module 5. Bycatch/discard survey in set-net fishery: Module	COOPERATION PERIOD	2005~2009
The module will provide both lectures and practice exercises (both at sea and on land)	REMARKS	* As on-board training is included in this program, under 40 years of age is preferable.



REMARKS

For fiscal year 2009, this course will be implemented for both Oceania and Caribbean countries.

* Overhaul of Compressor

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Fisheries—Rural Development in Fisheries

Target Countries: Oceania 8 participants English **OBJECTIVE** TARGET ORGANIZATION / GROUP Enable participants to understand the way of sustainable fisheries resources [Target Organizations] Administrative bodies engaged in fisheries management by enhancing the skills and knowledge related to fisheries resources diversification (which refers to the way in Okinawa, such as producing and resource management deploying submergible FADs (Fish Aggregation Devices)) [Target Group] Participants having taken part in the 2nd year To attain the objective, participants are expected to achieve the following: (1) Share experience and lessons learned through implementation of the action training program plans produced in the last year, and study further practices and mechanisms in management and utilization of coastal fisheries resources in Okinawa, that can be applied to the participants countries. (2) Acquire the adequate know-how in planning, coordination and implementation of community-based practice in Tonga. (3) Learn about monitoring and evaluation method for FADs fishery as well as new fishing practices around FADs. (4) Understand about several useful practices other than FADs relevant to the fisheries diversification in the Pacific Island States. (5) Produce a final action plan to be applied in the participants' home countries with mastering methodology on formulation of eligible and concise project proposals in terms of coastal fisheries resource management. **PROGRAM** Oct.5.2008~Nov.22.2008 **CONTENTS** PERIOD <Preparatory phase> Okinawa Environment Club / **IMPLEMENTING** (1) Formulating a progress report which summarize the current progress of the Fisheries & Aquaculture Inter'l **PARTNER** action plan made in the 2nd year program. Co., Ltd. JICA CENTER JICA Okinawa <Program in Japan> Implementing lectures, observation tours and practices related to the following COOPERATION 2006~2008 PERIOD (1) Monitoring the effects of FADs fisheries (2) Introducing processing skills and distribution mechanism of fisheries resources (1) Since this training program covers different topics each year of in Okinawa three years, which are closely (3) Introducing the roles of fisheries cooperatives in Okinawa inter-related, the same (4) Participating in the fishing program in tourism sector participants are to participate in a 3 year program. <Program in Third Countries (Fiji and Tonga(still under consideration))> (2) A program in Fiji and Implementing lectures, observation tours and practices related to the following Tonga(still under consideration) is topics: (1) Update the latest development and management on FAD fisheries to be carried out in the 3rd year training program. (2) Practice in implementation of community-based approach (3) Formulating the final action plan **REMARKS**

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Fisheries—Rural Development in Fisheries

Target Countries: Countries with coastline or large lakes (670km2 or more)

10 participants

English

OBJECTIVE TARGET ORGANIZATION / GROUP

The purpose of this program is to enhance participants' and their organizations' capabilities for comprehensive fishing community development through understanding of Japanese cases of community—based development in fisheries sectors.

Outputs of the course are as follows:

- 1. To deepen the knowledge on sustainable fisheries development.
- 2. To deepen the knowledge on institutional framework of community for fisheries development.
- 3. To enhance the planning and management capabilities for fisheries community development, through the preparation and presentation of the action plan. (The organization of the participant is strongly recommended to formulate the fisheries community development plan prepared by the participant's action plan and to implement it.)

CONTENTS

< Target Organizations >

Central or local government in charge of fisheries community development planning and its implementation

- < Target Group >
- 1. Individuals with more than 5 years of experience in the fisheries sector and 2 years of experience in policy making/planning in the fisheries development,

Jul.13.2008~Oct.2.2008

2. University graduates or equivalent,

CONTENTO	PERIOD	Ť
(1) Snaring common problems and recognition of the same regarding fisheries community development with the participant's organization. (2) Preparing a country report, including a clear explanation of the present situation and problems regarding fisheries community development by the	IMPLEMENTING PARTNER	I.C. Net Limited
	JICA CENTER	JICA Yokohama
	COOPERATION PERIOD	2004~2008
(1) Sustainable fisheries development: Introducing the Japanese system of fisheries development and examples (2) Institutional building and extension system: Formulating and managing fishermen organization, fishery extension system and service, and so on (3) Comprehensive management for fisheries development: Introducing examples on coastal and the watershed environment, impact on aquatic resources, relations with other industries and so on (4) Project planning and management: Analyzing problems and issues in the participants' own countries and introducing appropriate planning and management methods on community development plans (5) Visit and Observation (6) Action Plan formulation and presentation: This Action Plan will be prepared based on the country report and should be brushed up through acquainted knowledge of the course. 3. Post-program Activities (1) Review of the Action Plan together with the organization (2) Submission of the Final Report stating how the Action Plan was reviewed and what is the result (3) Providing technical advice by the implementing partner to the final report	REMARKS	

- implemented.
- (2) The result of the actions taken by the organization and the participant is reported as the Final Report at the time of 4 months after the return.
- (3) Implementing Partner will send technical advice to the Final Report.