

14. Fisheries


Stock management and Enhancement in the Sea 海域における水産資源の管理及び培養		GROUP	0980336
Target Countries: Maritime countries		7 participants	English
Fisheries—Stock Enhancement and Aquaculture			
OBJECTIVE	TARGET ORGANIZATION / GROUP		
Participants will gain beneficial knowledge about stock management and enhancement of marine organisms considering biodiversity in the sea and utilize the knowledge for the improvement of current situations in participants' countries. Through the training program, participants are expected to understand; 1. the philosophy and concept for management of natural resource, 2. the importance of community ecology for fishery science, 3. evaluation of stocking effectiveness for fisheries resources (statistical method) 4. Improvement of coastal fishing ground, 5. Analysis of environmental chemistry at fisheries ground, 6. Preparing of nursery ground and artificial reef, 7. Hatchery enhancement, and 8. Seed-release situation	(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.29.2009 ~ Oct.25.2009	
This training course is formulated to cover the following programs to obtain basic knowledge, both theory and practice, of the marine farming: I. (1)Theory of Community Ecology (2)Fisheries Pollution (3)Environmental Chemistry (4)Fish Disease (5)Food Nutrition for Rearing (6)Preparing of Nursery Ground and Artificial Reef (7)Benthos and Plankton (8)Hatchery Enhancement (Fish Seeding) (9)Seed-release Situation(10)Fisheries Genetics (11)Statistical Method on Evaluation of Stocking Effectiveness for Fisheries Resources (12)Fish Taxonomy (13)Early Life History of Fishes (14)Botany of Seaweed (15) Biology of other important marine animals(16)Governmental program with fishery cooperative for resource management and enhancement II. (1)Country report presentation (2)Study Tour (3)Individual Self-study (4)Making Study Report and Action Plan *Specialties which can be studied at the self-study session are as follows: Fisheries Stock Management, Fisheries Ecology, Environmental Chemistry, Fish Pathology, Fish Nutrition, Artificial Reef and Nursery Ground, Benthos and Plankton Research, Hatchery Enhancement, Aquatic Product Utilization.	IMPLEMENTING PARTNER	USA MARINE BIOLOGICAL INSTITUTE, KOCHI UNIVERSITY	
	JICA CENTER	JICA Shikoku	
	COOPERATION PERIOD	2007~2009	
	REMARKS	Japanese intensive class (50 hours at JICA Osaka)	


Fish Disease Prevention and Hygienic Handling of cultured fish 養殖魚の健康と安全管理		GROUP	0980351
Target Countries: Countries with coastline or lakes suitable for seafood cultivation		8 participants	English
Fisheries—Stock Enhancement and Aquaculture			
OBJECTIVE	TARGET ORGANIZATION / GROUP		
【Objectives】 Participants improve the techniques and deepen the knowledge relevant to hygienic handling of aquaculture products and prevention of fish disease. 【Outputs】 (1) The present conditions and problems on aquaculture in the participant's home country are clearly mentioned in the Inception Report (2) The participant is able to explain the concepts and the techniques of the hygienic handling of aquaculture products (3) The participant is able to explain the concepts and the techniques of the diagnosis and prevention of cultured fish disease (4) A problem-solving plan on aquaculture (Strategy Plan) in the participants home country is suggested 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		
CONTENTS	PROGRAM PERIOD	Sep.1.2009 ~ Nov.7.2009	
(1) Implementation of Inception Report Presentation (Presentation and Discussion) (2) Technique of Hygienic Handling of Aquacultured Products (Lecture and Practice) (3) Seafood Hygiene (Lecture and Practice) (4) Preventive Measures of Fish Disease(Lecture and Practice) (5) Drafting and presentation of a Problem-solving Plan (Strategy Plan) * 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.	IMPLEMENTING PARTNER	National Fisheries University	
	JICA CENTER	JICA Chugoku	
	COOPERATION PERIOD	2006~2010	
	REMARKS		


Coastal Fishing Technique for Sustainable Resource Use 持続可能な沿岸漁業		GROUP	0980975
Target Countries: Maritime countries		6 participants /	English
Fisheries—Fisheries Resource Management			
OBJECTIVE	TARGET ORGANIZATION / GROUP		
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 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	Mar.3.2010 ~ Jun.20.2010	
1. Introduction to fisheries and management in Japan, introduction to designing fishing gear, etc.: 2. Measurement in fishing technology: Module 3. Structure and operation of trawl: Module 4. Fishing ground survey and devices: Module 5. Bycatch/discard survey in set-net fishery: Module The module will provide both lectures and practice exercises (both at sea and on land)	IMPLEMENTING PARTNER	KAGOSHIMA University	
	JICA CENTER	JICA Kyushu	
	COOPERATION PERIOD	2005~2009	
	REMARKS	* As on-board training is included in this program, under 40 years of age is preferable.	


Maintenance of Refrigeration System for Oceania 冷凍機保守		R/F	0984215
Target Countries: For Oceania and Caribbean countries only		5 participants /	English
Fisheries—Other Fisheries Issues			
OBJECTIVE	TARGET ORGANIZATION / GROUP		
This course is designed for the refrigeration systems for fisheries to be maintained and managed properly through the following outputs: (1) Understanding the fundamental knowledge and calculation of refrigeration systems (2) Obtain skills for troubleshooting, repairing and maintaining refrigeration systems using attached instruments or tools through disassembly and assembly systems. (3) Acquire and understand the latest information on refrigeration systems, based on actual processes in production. (4) Acquire and understand how to read and prepare the drawings of electric control. (5) Understand the fundamental knowledge of electric wiring.	【Target Organizations】 Ministries, agencies, and other organizations in charge of maintaining and managing refrigeration systems for fisheries, preferably provided under the Grand Aid Scheme 【Target Group】 Instructors in technical institutions, extension officers and heads of workshop, providing fishermen with technical training		
CONTENTS	PROGRAM PERIOD	Jan.12.2010 ~ Mar.21.2010	
* Theory of refrigeration systems (Heat and work / Fundamental law / Cycle / Heat transfer / Mollier diagram/ Refrigerant etc.) * Functions and construction of refrigeration systems (Brine / Compressor / Condenser / Evaporator / Refrigerating Equipment etc.) * Maintenance of refrigeration systems (Welding / Charge of refrigerants / Leakage test / Operation / Adjusting etc.) * Overhaul of Compressor	IMPLEMENTING PARTNER	Nissin Refrigeration & Engineering LTD	
	JICA CENTER	JICA Osaka	
	COOPERATION PERIOD	2007~2009	
	REMARKS	For fiscal year 2009, this course will be implemented for both Oceania and Caribbean countries.	

OBJECTIVE	TARGET ORGANIZATION / GROUP	
<p>【Objectives】 The plan for sustainable fishery promotion / development which is formulated during the training course in Japan is shared and the consideration to launch the plan is initiated in the participant's organization.</p> <p>【Outputs】 (1) The basis of the plan for fishery promotion is formed by the clarification of the problems to tackle with. (2) The understandings of Japanese "Law & System" and "Economy & Management" concerning fisheries are reflected into the plan for fishery promotion. (3) The understandings of resource management, fishery management, and regional fisheries from statistical method are reflected into the plan for fishery promotion. (4) The understandings of sustainable regional fisheries such as resource-oriented fishery are reflected into the plan for fishery promotion. (5) The understandings of political tools (eg. budget, system, finance, facility, and administrative method) in order to realize sustainable regional fisheries are reflected into the plan for fishery promotion. (6) The skills needed as an official to implement the plan for fishery promotion are developed. (7) The plan for fishery promotion is formulated.</p>	<p>【Target Organizations】 National or regional governments which are engaged in promotion or administrative planning of fisheries in the specific regions.</p> <p>【Target Group】 (1) National or local government officials who are currently engaged in regional fishery promotion and/or political planning for regional fishery administration. (2) Work experience in the relevant field: More than 5 years. (3) Educational Background: Should have degrees of fishery-related universities or have studied economics, business administration, public administration and legal science.</p>	
<p style="text-align: center;">CONTENTS</p>	<p style="text-align: center;">PROGRAM PERIOD</p>	<p>Mar.23.2010 ~ Jun.19.2010</p>
<p><Preparatory phase (Before coming to Japan)> - Formulation and submission of Job/Country Report - Formulation and submission of Issue Analysis Sheet</p> <p><Program in Japan> (1) To formulate the basis of of the plan for sustainable fishery promotion (a) Course Guidance (b) Job/Country Report presentation (c) Issue Analysis Workshop (2) To learn Japanese legal systems on fishery such as Fishing Laws and Fishery Basic Acts, administrative measures, economics and theory of management from production, distribution and consumption (3) To learn our practical examples such as resource management and the method of statistical comprehension for viable fishery in regions (4) To learn the principle of resource management-oriented fishery through study of resources, biology and fishery economics and consider economic and political benefits (5) To learn the current situations of fishery administration at on-site of national, prefectural and local levels (6) To improve the skills needed as administratives of fishery promotion (a) To learn fishery administration at national levels at Fisheries Agency (Tokyo) and visit Tsukiji Market to see actual conditions of distribution and consumption of fishery products (b) To observe political structures, practices and guidance method to fisherman at fishery administrations of prefectural and municipal levels. (7) To formulate the plan for sustainable fishery promotion/development (a) To formulate plans for sustainable fishery promotion to achieve effective fishery administration in the area of responsibility utilizing regional resources. (b) Present the plans for fishery promotion and discuss their contents.</p> <p><Post-Program activities (After participants' return)> Application of the plan for sustainable fishery promotion back in the participant's country and submission of the Progress Report to JICA</p>	<p style="text-align: center;">IMPLEMENTING PARTNER</p>	<p>National Fisheries Universtiy</p>
	<p style="text-align: center;">JICA CENTER</p>	<p>JICA Chugoku</p>
	<p style="text-align: center;">COOPERATION PERIOD</p>	<p>2007~2009</p>
	<p style="text-align: center;">REMARKS</p>	

Planning for Fisheries Community Development 漁業コミュニティ開発計画		GROUP  0980852
Target Countries: Countries with coastline or large lakes (670km ² or more)		Fisheries—Rural Development in Fisheries 10 participants / English
OBJECTIVE	TARGET ORGANIZATION / GROUP	
<p>【Objective】 The possibility of the draft plan for fisheries community development will be studied, and the result of the study including a future policy will be decided by the fisheries administrative organization.</p> <p>【Expected Results (for the 1st year)】 1. To recognize and organize the issue or problems of activities, programs and systems of fisheries community development 2. The participants can deepen the necessary knowledge to strengthen and cultivate the fisheries community activities. 3. To recognize and organize the issue or problems of the proper programs and activities of fisheries community development for the purpose of income generation of fisher's households. 4. To recognize and organize the issue or problems of the proper programs and activities of coastal resource management and environmental conservation by the fisheries communities. 5. To formulate a practical action plan through the logical analysis of issues of fisheries community development in participant's countries and the detail consideration of concrete measures.</p>	<p>【Target Organization】 Central or Local government or any other Fisheries administrative organization or agency in charge of fishery community development</p> <p>【Target Group (for the 1st year)】 <Position> Administrative officers in charge of fisheries community development <Experience> Administrative officers with ten(10) years experience</p>	
CONTENTS	PROGRAM PERIOD	Aug.18.2009 ~ Sep.19.2009
<p>【Program in Japan (for the 1st year)】 A series of lectures, observations and practices will be held according to each of the followings; 1. Situation of coastal fisheries in Japan, Policy and regulation of fisheries community development in national and local government, Situation of fish product distribution and fish processing, Infrastructure development for fisheries communities, and etc. 2. Society and culture in fishing communities, Organization, structure and management of fisheries cooperative association, , and etc. 3. Income generation activities of fisheries cooperatives, Role of women in fishing communities, Economic management of fisher's households, Rural development in remote islands, and etc. 4. Mechanizm of coastal resource management, Environment-friendly fishing gears and methods, and etc. 5. Project Cycle Management, Problem and Objective analysis for own issues of fisheries community development, Formulation of practical action plans for fisheries community development, and etc.</p> <p>【Post-program acitivities (After participants' return)】 The participants are expected to implement the policy planning and requested to report the progress as a final report.</p>	IMPLEMENTING PARTNER	IC Net Limited
	JICA CENTER	JICA Yokohama
	COOPERATION PERIOD	2009~2011
	REMARKS	This program aims to accomplish the program objective in three (3) years. For the 1st year (2009), the target group will be the executives officers. The program period is subject to minor change.

Costal Fisheries Management 沿岸漁業管理		GROUP  0980863	
Target Countries: Coastal/island countries		Fisheries—Fisheries Resource Management 10 participants / English	
OBJECTIVE	TARGET ORGANIZATION / GROUP		
<p>【Objective】 Participating organizations formulate, approve and start to implement the appropriate Fisheries Management Plan for sustainable utilization.</p> <p>【Expected Results】 (1) To be able to explain the own country's coastal fisheries problems and the Japanese coastal fisheries framework (2) To be able to explain theoretical outline and method of fisheries management (3) To be able to explain examples of Japanese coastal fisheries management (4) To be able to formulate Action Plan for fisheries management</p>	<p>【Target Organization】Central or regional governmental organizations responsible for policy making in fisheries sector. This program will be held step-by-step in three years (2009-2011), so participants should be selected from same organization or relevant organizations for three years.</p> <p>【Target Group】 <for the 1st year> Position: be mid-career official responsible for planning of the coastal fisheries management in central government / research institute Experience in the relevant field: have more than 8 years' experience in the field of coastal fisheries management Age: be between the ages of thirty-five (35) and forty-five (45) years <for the 2nd and 3rd year> Position: be official responsible for implementing the Action Plan formulated former year in central or regional government Experience in the relevant field: have more than 5 years' experience in the field of coastal fisheries management Age: be between the ages of twenty-five (25) and forty (40) years</p>		
CONTENTS	PROGRAM PERIOD	Aug.18.2009 ~ Oct.8.2009	
<p>【reliminary Phase】 After reading the designated text, write up your idea, answer to some questions and submit the report.</p> <p>【Core Phase in Japan】 1.Presentation of Inception Report, Legal framework, Role of administration, Role of fisheries cooperative association, Distribution and processing of fishery product, System of fisheries education 2.Collection of fish catch statistics, Resource diagnostic methods, Setting fisheries management goal, Methods of fisheries management, Conservation of fisheries environment, Stock enhancement and sea farming, Establishment and Improvement of fishing ground, Selective fishing gears and methods 3.Case study of fisheries management, Measures taken by fishery administration, Measures taken by research institution, Measures taken by fishers, Measures taken by citizens 4.Problem and objective analysis based on Project Cycle Management (PCM) method, Formulation of Action Plan (Mid Term Plan), Drawing Study Report, Presentation of Action Plan</p> <p>【reliminary Phase】 Approve and implement the Action Plan back in the participant's country and report the situation as Progress Report.</p>	IMPLEMENTING PARTNER	INTEM Consulting, Inc.	
	JICA CENTER	JICA Yokohama	
	COOPERATION PERIOD	2009~2011	
	REMARKS	<ul style="list-style-type: none"> •This program will be held step-by-step and achieved in three years (2009-2011) •Some reporting session will be opened to Japanese students in which participant discuss with them. 	

Secure sustainability of coastal fisheries resources through diversification 多様化による沿岸水産資源の持続性確保		R/F 	0984038
Target Countries: Countries in the Pacific region which have JICA Offices		5 participants /	English
OBJECTIVE	TARGET ORGANIZATION / GROUP		
<p>【Objective】 Sustainable management and utilization of coastal fishery resources will be implement in respective fishery department.</p> <p>【Expected Results】 (1) To understand the development of coastal fishery in Japan/Okinawa, and the measures against improving fishermen's livelihood from the point of "livelihood diversification". (First year) (2) To plan a development project, and to understand the flow of "Planning, Action, Evaluation" which will be necessary for the implementation of the project. (First/Second year) (3) To understand the similarity and the discrepancy between Japan / Okinawa and Pacific region, and the way of applying Japan / Okinawa case to Pacific region. (Second year) (4) To discuss the way of applying Japan / Okinawa case to respective country, and to make a concrete proposal. (Third year) (5) To implement the action plan, and analyze the progress and the result. (After the three year training)</p>	<p>【Target Organization】 Senior officer of fishery department</p> <p>【Target Group】 1) Officials in managerial position 2) Experience in the relevant field: have more than five (5) years' practical experience in the field of coastal fishery management</p>		
CONTENTS	PROGRAM PERIOD	Oct.13.2009 ~ Dec.5.2009	
<p>For sustainable management and utilization of coastal fishery resources, this program contributes governmental officers who partake in fishery for solution of problems on fishery.</p> <p><Preliminary phase (activities in home country)> (1) Formulation of Job Report</p> <p><Core Phase (activities in Japan)> (1) •Legislation and administration of fishery in Japan •Case study of fishery resource management in Japan •Resource management and fishing village promotion by livelihood diversification •Formulation of action plan (2) (First year) Problem analysis/Object analysis/Formulation of PDM/Practice at a model site (Second year) Review of the first year training/Site visit and analysis of the factors of the success or failure in the past projects in fishery sector (3) •The present situation of coastal resources and fishery sector in Pacific region •Field survey of fishing village in Pacific region •Discussion on the possibilities and constraints of application of Japans' case to Pacific region •Formulation of interim action plan (4) •Plan/implement/analyze a small scale project at model site •Formulation of final action plan</p> <p><Finalization Phase (activities in home country)> Share and discuss the action plan in respective organizations/ Modify the action plan/ Implement and analyze the progress</p>	IMPLEMENTING PARTNER	Non-Profit Organization Okinawa Environment Club	
	JICA CENTER	JICA Okinawa	
	COOPERATION PERIOD	2009~2011	
	REMARKS	<p>(1) This program will accept the same participants for three consecutive years, in order to solve the problem from a long-term point of view. (2) This program expect to promote the information sharing network among the area, and to promote the connection between related organizations such as USP, SPC.</p>	

Sustainable Rural Fisheries Development for French Speaking Central and West African Countries 仏語圏中西部アフリカ 持続的漁村開発		R/F 	0984292
Target Countries: French-speaking central and west african countries		5 participants /	French
OBJECTIVE	TARGET ORGANIZATION / GROUP		
<p>【Objective】 Action plan on fisheries community development program is approved by the fisheries development government or agency through intaregeonal dialogue with concerned organizations and fisheries communities.</p> <p>【Outputs (for the 1st year)】 1. [Preparatory phase in a participant's home country] To organize issues or problem of fisheries community development preliminarily. 2. [Core phase in Japan] To learn various measures and policies through understanding of the actual situation of Japanese coastal fisheries and fisheries community development system. 3. [Core phase in Japan] To understand financing facility system for the purpose of fisheries community development such as micro-credit. 4. [Core phase in Japan] To understand the collaboration system and cases between government and fishermen in fisheries resource management. 5. [Core phase in Japan] The prepared issue of fisheries community development will be organized as an action plan idea through the discussion with the course leader, lectureres and other participants. 6. [Home county phase] The participants will share the knowledge and talk over the issue of action plan idea with the 2nd year's participant. And the report on it will be submitted.</p>	<p>【Target Organization】 Central or local government in charge of fisheries community development</p> <p>【Target Group】 <Position> (1st year) Extension officers in charge of fisheries community development and its extension (2nd year) Administrative officers in charge of planning on fisheries community development (3rd year) Executive officers responsible for fisheries community development <Experience> (1st year) 5 years experience in extension of fisheries community development (2nd year) 5 years experience in fisheries community development (3rd year) 10 years experience in fisheries administration <Others> It is preferable for the participants of the 1st and 2nd year to have field experience on fisheries community development, income generation activities and organization of fishermen.</p>		
CONTENTS	PROGRAM PERIOD	Mar.1.2010 ~ May.30.2010	
<p>【Preparatory phase (Before coming to Japan)】 The participants' organizations are requested to analyze and organize preliminarily issues or problem of fisheries community development and report the result.</p> <p>【Program in Japan】 Lectures, observations, practices and discussion on the followings; 1. The actual situation of Japanese fish-processing and distribution, Fisheries cooperative system, role and operation, and etc. 2. Income generation activities of women's group of fisheries cooperatives, Activities for better management of small-scale fisheries cooperatives, and etc. 3. Environmental improvement activities of fishing grounds, Community-based activities for coastal environmental conservation and etc. 4. Presentation of the prepared issue on fisheries community development of their own countries, discussion with other participants, course-leader and lectureres.</p> <p>【Post-program activites (After participants' return)】 The participants are requested to share the knowledge with the 2nd year's participant and talk over the action plan idea in their organization, and submit the report on it.</p>	IMPLEMENTING PARTNER	Not yet fixed (should be selected by tender)	
	JICA CENTER	JICA Yokohama	
	COOPERATION PERIOD	2009~2011	
	REMARKS	<p>1. The preliminary survey for the main target countries will be conducted around August 2009. The result of the survey will be reflected in the program.</p> <p>2. The program period is sujet to minor change.</p>	