PROVISIONAL PROSPECTUS

Online Regional Training Course on
Geographic Information System and Remote Sensing for Aquaculture

30 November–3 December 2021
SEAFDEC Training Department

Background

Over the past several decades, geo-information technologies such as Geographic Information System (GIS) and Remote Sensing (RS) were utilized as tools for many aspects in fisheries and environmental sciences which can help the fisheries development and management. These technologies can notably provide good media to effectively disseminate information and coordinate and improve core activities carried out by the fisheries organizations. In Southeast Asia, a regional fisheries information system is considered to be useful for fisheries planning and management, supporting the sustainable use of fishery resources in the region.

To support the SEAFDEC Member Countries on the utilization of FGIS and RS for the sustainable use of the fishery resources in the region, the SEAFDEC Training Department (TD) implemented the project entitled "Sustainable Utilization of Fisheries Resources and Resources Enhancement in Southeast Asia" during 2020–2024 supported by the Japanese Trust Fund. In 2020, TD organized the "Regional Consultation Workshop on the Utilization of FGIS and RS to Improve Fisheries Management in Southeast Asia" which served as a platform for the National Focal Persons from the participating SEAFDEC Member Countries to discuss the training activities in 2021–2023 based on the urgent needs of the participating countries. The Consultation agreed that GIS for aquaculture was the priority theme, while the other important themes include GIS for marine resources management, oceanographic data analysis and visualization, RS for marine resources management, and web mapping service technology.

In this regard, SEAFDEC/TD would organize the "Online Regional Training Course on Geographic Information System and Remote Sensing for Aquaculture" on 30 November–3 December 2021. The Regional Training Course is one of the activities of the Project to support the participating countries on the utilization of FGIS and RS to improve fisheries management.

Objectives

1. Enhance the capacity of human resources (*i.e.* junior fisheries officers and researchers) of the SEAFDEC Member Countries on the utilization of GIS and RS for Aquaculture

2. Strengthen the network of FGIS and RS researchers in the region

Expected outputs

1. Enhanced capacity of junior fisheries officers and researchers of the SEAFDEC Member Countries on the utilization of GIS for Aquaculture

2. Strengthened network of FGIS and RS researchers in the region

Target Participants

Two (2) junior fisheries officers or researchers nominated by the respective participating SEAFDEC Member Countries. The participants should have the basic knowledge of and/or working on GIS and RS in fisheries and environment. English language would be used throughout the Training Course; therefore, English proficiency is required for the participants. Certificates would be awarded to the participants upon completion of the Training Course and successfully passing the examinations.

SEAFDEC strives towards equal opportunities for the participation of female and male representatives from the SEAFDEC Member Countries in all events organized by SEAFDEC.

Preparation

Prior to the Training Course, the participants are requested to:

- Download and install the Quantum GIS (QGIS) software from https://qgis.org/en/site/forusers/download.html
- Sign up to the Google Earth Engine platform at https://earthengine.google.com/signup/. Please note that this platform prefers Google account for signing up and the approval may take time several days.

Subsequently, the participants are encouraged to practice and explore the software and platform.

Provisional Components of the Training Course

1. Introduction to the Training Course
2. Pre-test
3. Introduction to Geographic Information System (GIS)
4. Introduction to Remote Sensing (RS)
5. Overview of the application of GIS in aquaculture
6. Application of GIS in aquaculture: a case study on the potential sites for aquaculture
7. Application of GIS/RS in aquaculture: case study in Philippines
8. Post-test

Evaluation

The understanding of the participants would be evaluated through the pre- and post-tests before and after the Training Course, respectively. At the end, the participants would be requested to fill up the evaluation form to assess the conduct of the Training Course.

Tentative Schedule

The Online Regional Training Course will be conducted from 30 November to 3 December 2021 through the Google Meet platform. The details of the online meeting would be sent to the participants 26 November 2021.

The tentative schedule of the Training Course is shown in the table below and Thailand local time (UTC+07:00) would be followed.

Date and time	Activity	Resource person	Annotation
30 November 2021 (Day 1)			
09:00–09:30	Log in to Google Meet platform	SEAFDEC/TD	• SEAFDEC/TD and all participants would log in to the Google Meet platform
09:30–10:00	Opening Remarks	Chief of Training Department	
10:00–12:00	• Introduction to the Training Course • Pre-test	*Ms. Siriporn Pangsorn*	• Background, objectives, and arrangements would be presented • Pre-test examination for the participants would be conducted
1 December 2021 (Day 2)			
09:00–11:00	Introduction to Geographic Information System (GIS)	*Dr. Wirote Laongmanee*	• Introduction to GIS (definition of terms, GIS as a tool to support management and decision-making process, etc.)
11:00–12:00	Discussion		• Appropriate types of data and information for GIS • Introduction to QGIS software
12:00–13:00	Lunch break		
13:00–15:00	Introduction to Remote Sensing (RS)	*Dr. Wirote Laongmanee*	• Introduction to Remote Sensing (RS) • Introduction to Google Earth Engine (search and export of data for use in GIS)
15:00–16:00	Discussion		
2 December 2021 (Day 3)			
09:00–11:00	An overview of the application of GIS in aquaculture	*Dr. Wirote Laongmanee*	• Describe the general application of GIS in aquaculture
11:00–12:00	Discussion		
12:00–13:00	Lunch break		
13:00–15:00	Application of GIS in aquaculture: a case study on the potential sites for aquaculture planning and management	*Dr. Wirote Laongmanee*	• Describe the use of GIS in aquaculture planning and management
15:00–16:00	Discussion		
3 December 2021 (Day 4)			
09:00–11:30	Application of GIS/RS in aquaculture: case study in Philippines	SEAFDEC AQD	• Presentation of the case study on the utilization of GIS and RS in aquaculture in Philippines
11:30–12:00	Discussion		
12:00–13:00	Lunch break		

Date and time	Activity	Resource person	Annotation
13:00–14:30	• Training Course Evaluation • Post-test	*Ms. Siriporn Pangsorn,* *Dr. Wirote Laongmanee*	• The evaluation form will be filled up by the participants to assess the conduct of the Training Course • The post-test will be given to the participants to assess their understanding
14:30–15:00	Closing Remarks	Chief of Training Department	

Resource persons

Dr. Wirote Laongmanee
Lecturer, Faculty of Marine Technology
Burapha University, Chanthaburi Campus

Technical Staff
SEAFDEC Aquaculture Department (AQD)

Contact persons

Mr. Sukshai Arnupapboon (Project Leader)
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Ms. Nathacha Sornvaree (Administrative Officer)
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SOUTHEAST ASIAN FISHERIES DEVELOPMENT CENTER
SECRETARIAT MEMORANDUM
JAPANESE TRUST FUND VI YEAR 2021

To:	Trust Fund Project Manager	**Date:** 26th October 2021

To: Trust Fund Project Manager   Date: 26th October 2021

Cc: DSG/DTDC, Special Adviso, A/JTF, FIDH   Sec. Ref. No.: TF621158

From: Matomi Komagata

Component: Promotion of Sustainable Aquaculture and Resources Enhancement in Southeast Asia

Project: Sustainable Utilization of Fisheries Resources and Resources Enhancement in Southeast Asia

Subject: Request for budget approval to conduct the Regional Training Course on Geographic Information System (GIS) for Aquaculture, online hosted by SEAFDEC/TD, 30 November - 3 December 2021

REQUEST FOR CASH ADVANCE

DESCRIPTION OF ADVANCE	AMOUNT	
1. Remuneration for resource person (15 hours, USD 50 per hour)	750	
2. Lunch and coffee break (USD 7, 12 persons, 4 days)	336	
3. Material and stationary	50	USD
4. Bank transfer fee (TD to AQD)	60	
5. Other expenses	34	
TOTAL	**1,230**	**USD**

( ) Research   (•) Training   ( ) Information   ( ) Collaborative   ( ) Policy development   ( )Others

Strengthening the Promotion of Sustainable Fisheries in Southeast Asia
( ) Strengthening a Regional Cooperation and Enhancing National Capacities to Eliminate IUU Fishing in Southeast Asia (TD)
( ) Harmonization and Enhancing Utilization of Fishery Statistics and Information (SEC)
( ) Responsible Fishing Technology and Practice (TD)
( ) Enhancing Food Safety and Competitiveness of Seafood Products (MFRD)

Promotion of Sustainable Aquaculture and Resources Enhancement in Southeast Asia
( ) Assistance for Capacity Development in the Region to Address International Fisheries-related Issues (SEC)
( ) Research for Enhancement of Sustainable Utilization and Management of Sharks and Rays in the Southeast Asian Region (MFRDMD)
( ) Sustainable Utilization of Anguillid Eel in the Southeast Asia Region (IFRDMD)
(•) Sustainable Utilization of Fisheries Resources and Resources Enhancement in Southeast Asia (TD)
( ) Fisheries Management Strategies for Pelagic Fish Resources in the Southeast Asian Region (MFRDMD)
( ) Promotion of Sustainable Aquaculture and Resource Enhancement in Southeast Asia(AQD)

Promotion of Sustainable Development of Inland Fisheries in Southeast Asia
( ) Management Scheme of Inland Fisheries in the Southeast Asian Region (IFRDMD)
( ) Small-scale Fisheries Management for Better Livelihood and Fisheries Resources (TD)

( ) Technical Assistance

( ) Consultancy Fee

( ) Agency Cost

( ) Enhancement of Integrated Information and Regional Coordination

( ) Operation for M.V.SEAFDEC2

Comments:

Date   26th October 2021   駒形 麻朋実
Matomi Komagata

To: ....
[✓] Approved:
[ ] Comments _____
_____

Date: _28 Oct 2021_

Kishi Honda
(Trust Fund Project Manager)

SOUTHEAST ASIAN FISHERIES DEVELOPMENT CENTER

TRAINING DEPARTMENT

OFFICE MEMORANDUM

TO	:	JTF Project Manager (Mr. Koichi Honda)
FROM	:	RDDH, acting /Project Leader (Mr. Sukchai Arnupapboon) *Sukchai A*
		(Coordinator Ms. Siriporn Pangsorn) *Sirporn Pongsorm*
SUBJECT	:	Request for budget approval to conduct the Regional Training Course on Geographic Information System (GIS) for Aquaculture, online hosted by SEAFDEC/TD, 30 November–3 December 2021
DATE	:	26 October 2021
CC	:	DSG/DTDC, Special Advisor (Mr. Masanami Izumi), A/JTF Project manager (Mr. Takatsugu Kudoh), FIDH (Ms. Angkanarat Thomyai)
ENCLOSED	:	Provisional Prospectus of the Regional Training Course

Referring to the activity 5 under the Sustainable Utilization of Fisheries Resources and Resources Enhancement in Southeast Asia project, project team would like to conduct the Regional Training Course on Geographic Information System (GIS) for Aquaculture, online hosted by SEAFDEC/TD, 30 November–3 December 2021.

The Regional Course aims to 1) Strengthen and enhance the capacities of human resources (*i.e.*, junior fisheries officers and researchers) of the SEAFDEC Member Countries on the utilization of GIS for Aquaculture; and 2) Strengthen the network of FGIS and RS researchers in the region.

In this connection, I would like to request JTF Manager kind approval the disbursement of budget amounting 1,230 USD (One thousand two hundred thirty USD) to conduct aforementioned activity. The detail of expense is as follow;

Remuneration for resource person (15 hours, USD 50 per hour)	USD	750
Lunch and coffee break (USD 7, 12 persons, 4 days)	USD	336
Material and stationary	USD	50
Bank transfer fee (TD to AQD)	USD	60
Other expenses	USD	34
Total	**USD**	**1,230**

The budget is categorized under Project Sustainable Utilization of Fisheries Resources and Resources Enhancement in Southeast Asia, Activity 5.1 Regional technical meeting or workshop or training on utilization of FGIS and RS to improve fisheries management (Year 2020–2024).

Your kind consideration and approval would be highly appreciated.

Approved
26 Oct. 2021
Koichi Honda