Tropical forest management using the JJ-FAST, an ALOS-2 -based forest monitoring system, and other satellite technologies
JJ-FASTと衛星技術を活用した熱帯林管理（森林ガバナンスイニシアティブ付帯研修）

Continuing Innovative Program

Target Countries :

Course No. : J1804411 **No. :** 1884912

Sector : Nature Conservation/Sustainable Use of Natural Resources

Sub-Sector : Environmental Management/Global Warming

Language : English

Outline

JICA and Japan Aerospace Exploration Agency (JAXA) launched the Forest Governance Initiative in 2016. The initiative has been creating a new JICA-JAXA Forest Early Warning System in the Tropics (JJ-FAST) that tracks deforestation and forest loss of 77 countries with JAXA's Advanced Land Observing Satellite-2 (ALOS-2). (http://www.eorc.jaxa.jp/jjfast/).

The initiative also promotes the capacity development of personnel for sustainable forest monitoring / management in developing countries through training courses in Japan and regional seminars on JJ-FAST. The initiative also spreads knowledge about good practices on forest conservation around the world through the JJ-FAST web-site and international conferences. It is expected that global efforts, including those through the Forest Governance Initiative, will help countries with serious deforestation issues, and in the long term help control the reduction of forests as an effective measure against climate change. This Knowledge Co-Creation Program is conducted as a part of a capacity building program of the Forest Governance Initiative.

Objective/Outcome

【Objective】
To acquire knowledge and skills to utilize the ALOS-2-based deforestation early warning system and about JJ-FAST, to gain basic knowledge about satellite technology for forest monitoring, and to finally develop an action plan for effective tropical forest monitoring / management in the participants' home countries.

【Outcome】
1. To acquire knowledge about forest monitoring using remote sensing and Japan's experience
2. To acquire knowledge and skills on remote sensing including the ALOS-2-based JJ-FAST
3. To develop an action plan to conserve forest using JJ-FAST

Target Organization / Group

【Target Organization】
This program is designed for organizations that are in charge of managing tropical forest areas using remote sensing / GIS technology. The participating organizations are expected to use the project for those specific purposes. This course is not for the technical officials of aerospace or remote sensing agencies.

【Target Group】
(1) be head or deputy head level governmental officials of a section in charge of managing tropical forest using remote sensing / GIS technology.
(2) have more than 5 years' experience in the field of forest monitoring / management using remote sensing / GIS.

Contents

【Preliminary Phase】 A participant will prepare an inception report, which includes a current situation of monitoring of tropical forest and challenge they face.
【Core Phase】
1. Lecture:
Forest conservation in Japan, the various satellites in the world available for forest monitoring, ALOS-2 and L-band Synthetic Aperture Radar (SAR)
2. Practice:
Introduction of JJ-FAST and its utilization, possible usage of JJ-FAST in countries with tropical forests
3. Observation: JAXA Tsukuba Space Center, Forest Conservation Site
4. Making a plan for tropical forest management using the Forest Monitoring System

Course Period	2018/10/28～2018/11/14
Department in Charge	Global Environment Department
JICA Center	JICA Yokohama
Cooperation Period	2017～2019
Implementing Partner	Remote Sensing Technology Center of Japan (RESTEC)
Remarks and Website	JJ-FAST Web-site http://www.eorc.jaxa.jp/jjfast/