



Laos

JRC ReCaREDD workshop/training
“Remote Sensing Tools and Methods for Monitoring Forest Change in the Context of REDD+”

*Forest Inventory and Planning Division (FIPD) / Dep. of Forestry (DOF);
Min. of Agriculture and Forestry (MAF)*

Vientiane (Laos), 30 Oct-2 Nov 2017

The ReCaREDD project

The project is funded by the European Union (Thematic Program Environment and Natural Resources) and is implemented by the Joint Research Centre of the European Commission (Ispra, Italy).

The lead objective of the project ReCaREDD (Regional Capacities for REDD+) is to support capacity building in tropical countries by enhancing the ability of institutions in partner countries to report on forest degradation in a reliable and cost-efficient manner.

ReCaREDD focuses at developing methodologies and tools for monitoring forest change with a focus on forest degradation, based on remote sensing data. The aim is to identify forest areas exposed to degradation and deriving proxy estimates of associated carbon fluxes.

Methodologies, tools and results are shared with partner countries through active collaboration, including commonly organized workshops and training sessions.

Objectives of training

The main objectives of this training are:

- Implementation of case study on the monitoring of deforestation and forest degradation
- Update on SENTINEL-2 data and access (including delivery of available Sentinel-2 data)
- Update and training in the use of JRC IMPACT toolbox as an easy-to-use open-source tool for selected image and GIS processing tasks in support to monitoring deforestation and forest degradation, with focus on new functionalities.

Workshop / Training program

Time	Topic	
Day 1 (30 October)		
08:30-09:00	Arrival of Participants	
09:00-09:30	Welcome / Introduction of participants	FIPD(DoF)/EU Del/JRC
09:30-12:00	RECAREDD project (update)	JRC
	The 'Regional Forest Observatory – Southeast Asia' (RFO-SEA)	FCG-Forest Carbon-kartEco
	Status of National Forest Monitoring	FIPD /DOF
	Ideas for the step-wise development of Lao NFMS	JICA
	Remote Sensing Tools for Monitoring of Conversion Areas in a future Timber Legality Assurance System for Lao PDR	Pro-FLEGT/GIZ
12:00-13:30	Lunch Break	
13:30-17:00	Roadless Forest Map – Monitoring of Deforestation	JRC
	NBR approach for detecting forest canopy disturbance	JRC
	SUFORD experience on monitoring of forest degradation in Laos	SUFORD-SU
	SENTINEL-2 (update)	JRC
	JRC IMPACT Tool (update)	JRC
Day 2 (31 October)		
08:30-12:00	Exercises: - S2-Data Access via JRC, - Import S2-Data IMPACT tool - Image Classification - Segmentation	All
12:00-13:30	Lunch Break	
13:30-17:00	Exercises: (continued) - - Other functionalities Exercise: Forest Monitoring based on pixel-based forest maps (Roadless Forest) using IMPACT tool	All



Day 3 (1 November)		
08:30 - 12:00	Exercise Monitoring forest canopy disturbance based on the Δ NBR Index using the IMPACT Tool and Sentinel2 data	All
	NBR approach using GEE	JRC
12:00 - 13:30	Lunch Break	
13:30 - 16:30	Exercise: Monitoring forest canopy disturbance based on Δ NBR Index using GEE	All
Day 4 (2 November)		
08:30 - 12:00	Exercise: Combination of deforestation (Roadless Forest) and disturbance events (Δ NBR Index) - estimation of biomass losses/emissions	All
	Practice (flexible): Monitoring forest change and degradation – case study	
12:00 - 13:30	Lunch Break	
13:30 - 16:00	Practice (flexible) Monitoring forest change and degradation – case study	All
16:00 - 17:00	Wrap Up, Participant feedback	All

**Coffee breaks: 10:30-10.45 and 15:00-15:15*

Requirements

Participants: should ideally have followed the 2016 training

Internet: WIFI fast

Hardware:

- Operation system: Windows from XP to Win10 only in 64bit
- RAM: \geq 8Gb (min 4 GB, by default on 64bit)
- CPU: $>$ i5 or equivalent
- Disk space: $>$ 10Gb (for Sentinel2 processing)
- Internet connection

Software:

- desired Arc Map, QGIS installed

GEE accounts:

Participants should have registered with Google for a GEE account before the workshop



Laos

Location:

FIPD
Forest Inventory & Planning Division
(Dep. of Forestry)
Phonthong Street
Ban Phonthong
Vientiane
LAOS



List of participants FIPD/NUoL

Name	Organization
Mr. Soukanh Bounthapandid	FIPD/DoF / DDir
Ms. Kongsy Siliphong	FIPD/DoF
Mr.Somxai Phaophongsavath	FIPD/DoF
Mr.Onkeo Lathvieng	FIPD/DoF
Mr. Khamkhong Inthavong	FIPD/DoF
Mr. Sombath Pangnasack	FIPD/DoF
Mr. Saengmany Bouthavong	NUoL /Forest Faculty
Vansaleum Phengvichit	NUoL /Forest Faculty
Mr. Konelasack Phonlavong	Pro-FLEGT / DoFI
Ignacio Olicer-Cruz	EU Delegation Vientiane
Jeremy Ferrand	RFO-SEA, Consortium FCG-Forest Carbon-kartEco
Markus Kukkonen	SUFORD-SU (Finland Aid)
Eiji Egashira	F-REDD (JICA)
Yuta Morikowa	F-REDD (JICA)
Peter Schwab	Pro-FLEGT (GIZ)
Andreas Langner	JRC
Hans-Jürgen Stibig	JRC