



JRC ReCaREDD workshop/training
***"Tools and Methods for Monitoring Deforestation and Forest Degradation
by Remote Sensing"***
20-23 September 2016, Hanoi (Vietnam)

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.

Technically, 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:

- Introduction to SENTINEL-2 data (including delivery of available Sentinel-2 data for all of Vietnam)
- Training in the use of JRC IMPACT toolbox as an easy-to-use remote sensing and image processing tool for deforestation and forest degradation monitoring
- Presentation / discussion on potential approaches for forest degradation monitoring from satellite imagery

Agenda

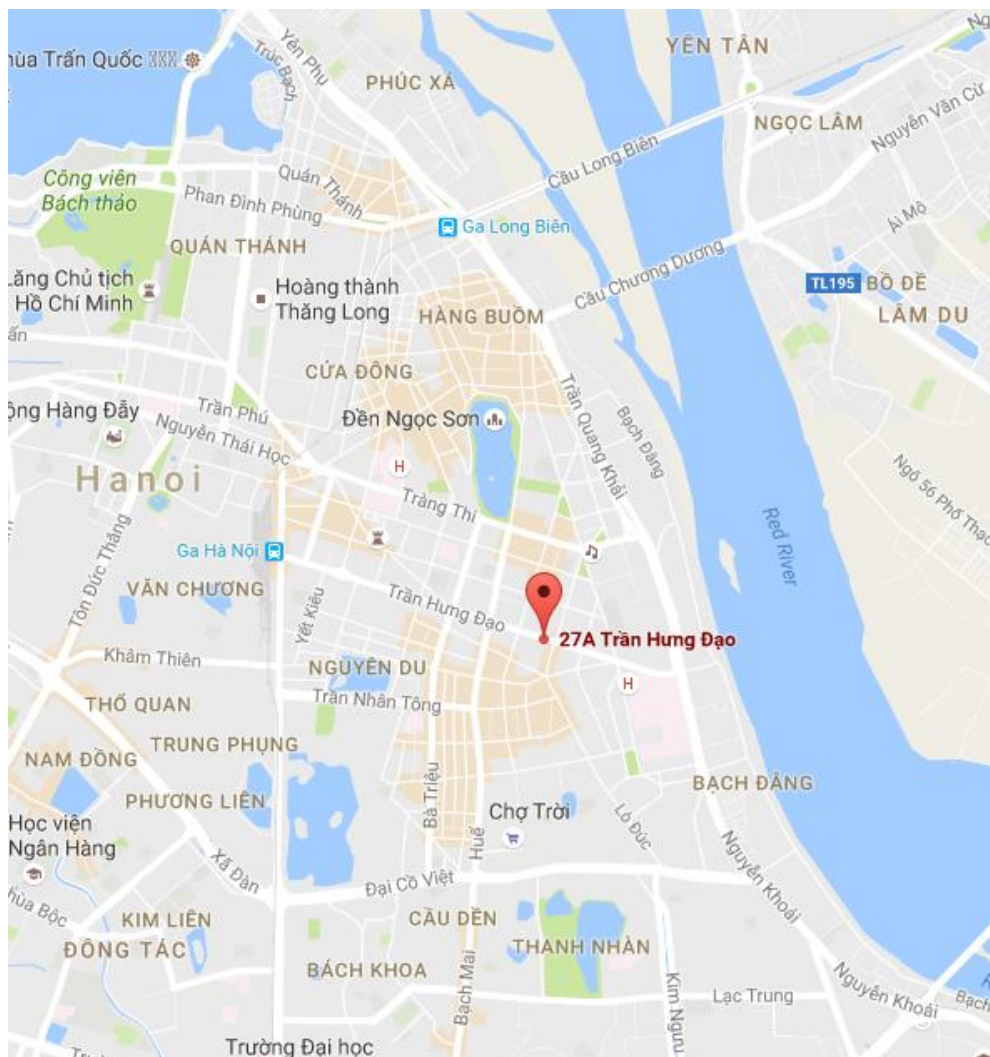
Tue, 20 Sep	
9:00 – 12:30	<ul style="list-style-type: none"> • Opening FIPI/JRC <ul style="list-style-type: none"> • JRC Presentations: <ul style="list-style-type: none"> ○ The RECaREDD project ○ Assessment of Deforestation: JRC projects TREES-3, Roadless Forest • FIPI Presentations: <ul style="list-style-type: none"> ○ Status of national forest inventory and monitoring in Vietnam ○ Status of REDD+ monitoring and reporting in Vietnam
14:00 – 17:00	<ul style="list-style-type: none"> • Introduction JRC Impact tool • Hands-on sessions 1 &2: Impact Tool (Import, Pre-processing Landsat, Clipping)
Wed, 21 Sep	
8:30 – 12:30	<ul style="list-style-type: none"> • JRC Presentation: <ul style="list-style-type: none"> ○ SENTINEL-2 Satellite Data ○ Pan-Sharpener LANDSAT • Hands-on sessions 3-5: Impact Tool (S2-Import & Pre-processing, Comparisons S2-L8, L8-Pan Sharpener, Grid generation & analysis)
14:00 – 17:00	<ul style="list-style-type: none"> • Hands-on sessions 6-7: Classification, Segmentation, Polygon edit and re-class • Hands-on session 8: NDVI Thresholding and Forest Masking
Thu, 22 Sep	
8:30 – 12:30	<ul style="list-style-type: none"> • JRC Presentation: <ul style="list-style-type: none"> ○ Monitoring Forest Degradation (Definitions, general concepts, JRC approaches) • Discussion: Country views and experiences on assessing forest degradation • JRC Presentation: <ul style="list-style-type: none"> ○ Forest canopy disturbance assessment using NBR methodology
14:00 – 17:00	<ul style="list-style-type: none"> • Hands-on session 9: NBR, forest mask, grid generation, class assignment for grid; test for country polygons; visual comparison
evening	<ul style="list-style-type: none"> • Social dinner Ruby Plaza, 17th floor, Le Ngoc Han str.
Fri, 23 Sep	
8:30 – 12:30	<ul style="list-style-type: none"> • Hands-on session 10: Forest degradation assessment based on Forest Map & Grid overlay • Discussion: Feedback from different assessment methodologies, Integration of existing national forest maps
14:00 – 16:00	<ul style="list-style-type: none"> • Wrap-up and Conclusions • Feedback from Participants

Minimum soft & hardware requirements for IMPACT software

- Operation system;
 - Impact version < 2: Windows from XP to Win10 in both 32/64bit
 - Impact version 2: Windows from XP to Win10 only in 64bit
- RAM: > 4gb (by default on 64bit)
- CPU: > i5 or equivalent
- Disk space: > 10Gb (for Sentinel2 processing)
- Internet connection (for updates)

Location:

Guest House of the Parliament
27A Tran Hung Dao str., Hoan Kiem District, Hanoi



List of Participants

No	Name	Institutions
1	Le Truc Huan	Forest Inventory Planning Institute -Ho Chi Minh City
2	Tran Quoc Nghia	Forest Inventory Planning Institute -Quy Nhon
3	Pham Manh Ha	Forest Inventory Planning Institute -Hue
4	Le Cao Thang	Forest Inventory Planning Institute -Nghe An
5	Nguyen Phuc Truong	Forest Inventory Planning Institute -Vinh Phuc
6	Luong The Vu	Forest Inventory Planning Institute -Vinh Phuc
7	Nguyen Truong Chinh	Forest Inventory Planning Institute -NorthWest
8	Bui Thanh Hue	Forest Inventory Planning Institute -NorthWest
9	Do Quang Thuong	Consultancy and Service Centre
10	Pham Manh Ha	Forest Resource & Env. Centre
11	Nguyen Van Kien	Forest Resource & Env. Centre
12	Hoang Minh Nguyen	Div. of Database Management
13	Trinh Ngoc Hiep	Remote Sensing Centre
14	Pham Ngoc Hai	Remote Sensing Centre
15	Pham Tuan Anh	Div. of Sciences, Technology and Env.