



JRC ReCaREDD workshop/training
"Tools and Methods for Monitoring Deforestation and Forest Degradation
by Remote Sensing"
26-29 September 2016, Phnom Penh (Cambodia)

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:

- Introduction to SENTINEL-2 data (including delivery of available Sentinel-2 data for all of Cambodia)
- 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

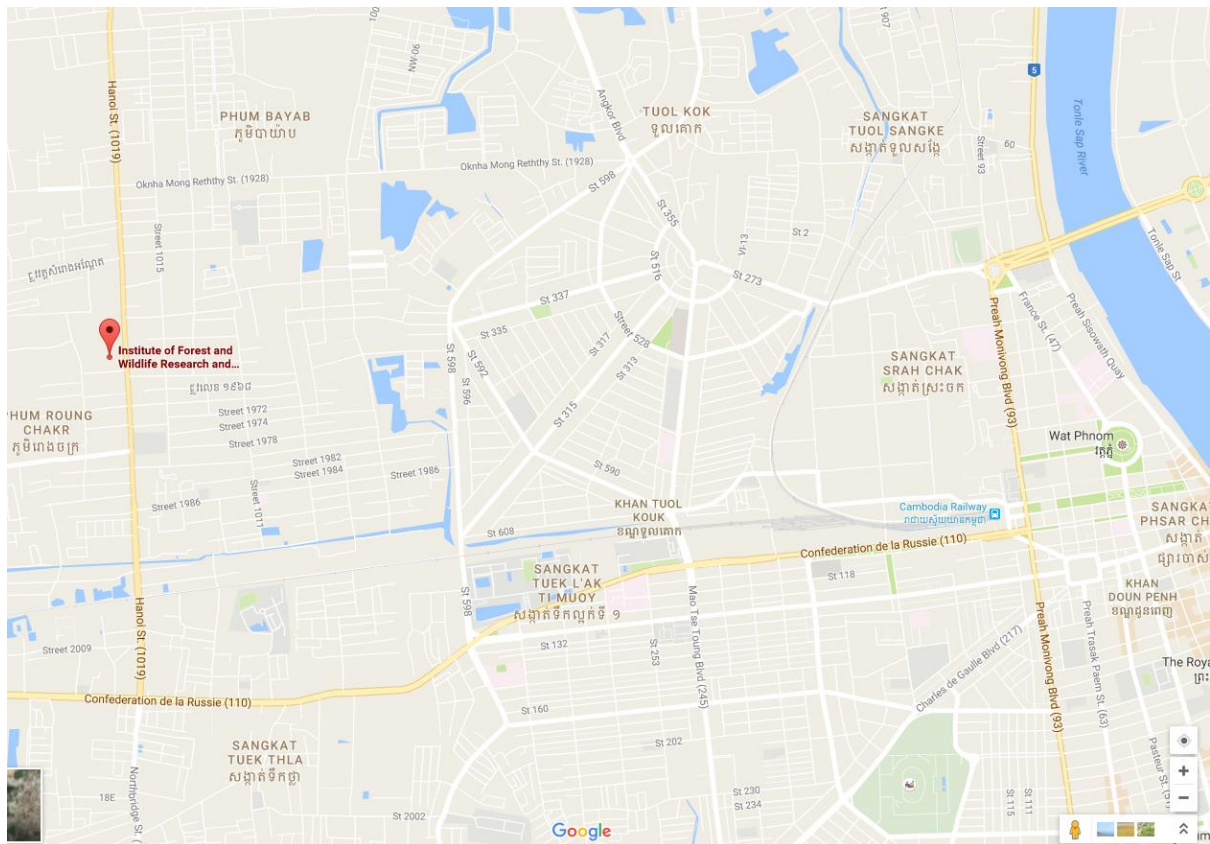
Mo, 26 Sep	
9:00 – 12:30	<p>Opening Forest Administration/EU Delegation/JRC</p> <ul style="list-style-type: none"> • JRC Presentations: <ul style="list-style-type: none"> ○ The RECaREDD project ○ Assessment of Deforestation: JRC projects TREES-3, Roadless Forest • Forest Administration Presentations: <ul style="list-style-type: none"> ○ Status of national forest inventory and monitoring in Cambodia ○ Status of REDD+ monitoring and reporting in Cambodia
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)
Tue, 27 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
Wed, 28 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 (tbc)	Social dinner (Tunle Basak II Restaurant)
Thu, 29 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:

Remote Sensing and GIS Lab of REDD+ Building
Institute of Forest and Wildlife Research and Development
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List of Participants

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