

DEMONSTRATING THE POWER OF NEW TOOLS FOR MEASURING TROPICAL FOREST CHANGE AND CARBON STOCKS

Landscapes Laboratory Station 4



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For quality of life

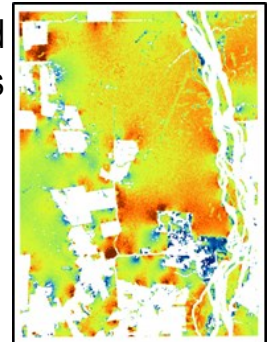
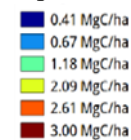


We kindly invite you to visit our joint Laboratory station that will be part of the Paris Global Landscapes Forum. In our station we will showcase:

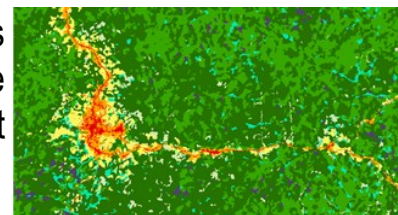
FOREST (Fully Optimised and Reliable EmissionS Tool) An integrated service tailored to the needs of sustainable forest management and the results obtained on case study sites in Brazil and Cameroon:

- Baseline and benchmark mapping at regional scale compatible with IPCC/VCS requirements.
- Change mapping using TerraSAR-X or VHR optical data allowing detection of small forest disturbances and monitoring of forest degradation.
- Carbon stock estimations and changes for five pools required for Tiers 3 REDD+ projects thanks to the ORCHIDEE model coupled with canopy light penetration assessment.
- A web-based quality assurance service.

Legend



Above Ground Biomass Carbon stock map in Cotriguazu Fazenda - Brazil



Legend



Stratification map in Lomie - Cameroon

Terrestrial laser scanner (LIDAR) Ground-based remote sensing instrument for 3D mapping and measuring with millimetric precision. It allows for automated and non-destructive measurement of trees and forest stand structure.

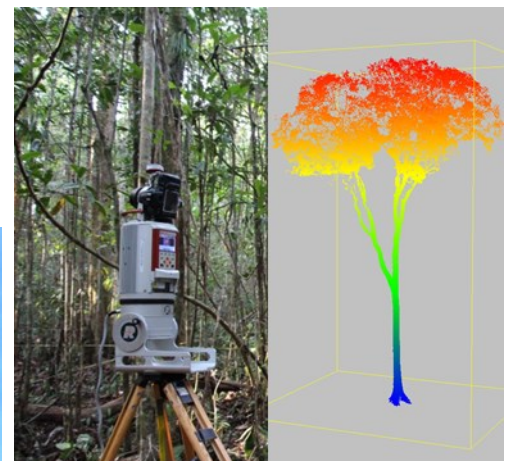
Unmanned Aerial Systems (UAS)

For mapping forest areas regularly, on demand, with flexibility in sensors types and at submetric resolution.

UAS also is able to perform 3D mapping, measurements of forest height and mapping of forest health or degradation processes.



UAS mapping tropical forest with an hyperspectral sensor



Terrestrial LiDAR scanning in Tropical Forest of Borneo and (right) 3D Point Cloud of a tropical tree in Peruvian Amazon

Come check out this new equipment and discuss with our experts in our laboratory station on the 5th and 6th of December at the Global Landscapes Forum - <http://www.landscapes.org/glf-2015/>



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