Technical Toolkit Workshop

Washington, May 15-16, 2013

National and Regional level tools and analysis

OSFAC : Mission & Activities

Founded in 2000, OSFAC is a representative of GOFC GOLD Network in Central Africa

1. Free dissemination of satellite imagery in the countries of the Congo Basin

2. Capacity Building in Remote Sensing (RS) and Geographic Information Systems (GIS)

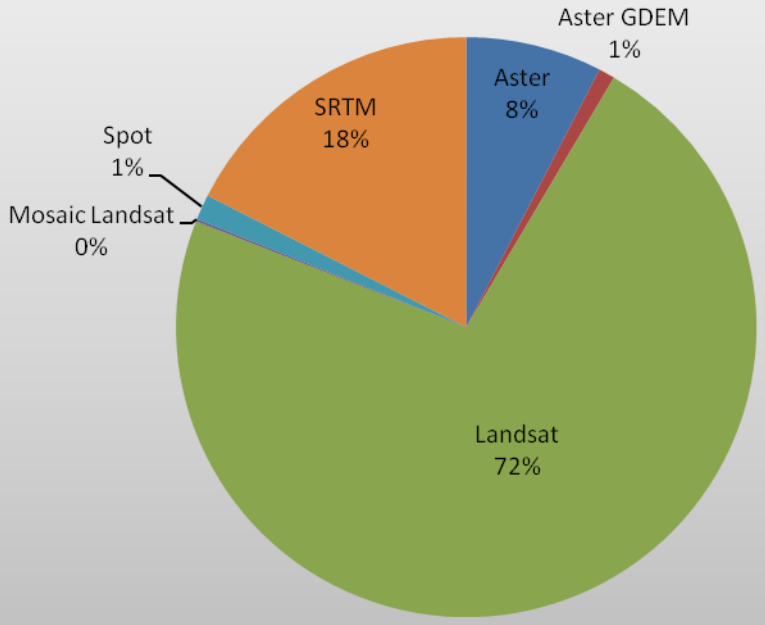
3. Monitoring and Evaluation of forest cover loss and changes

OSFAC Support

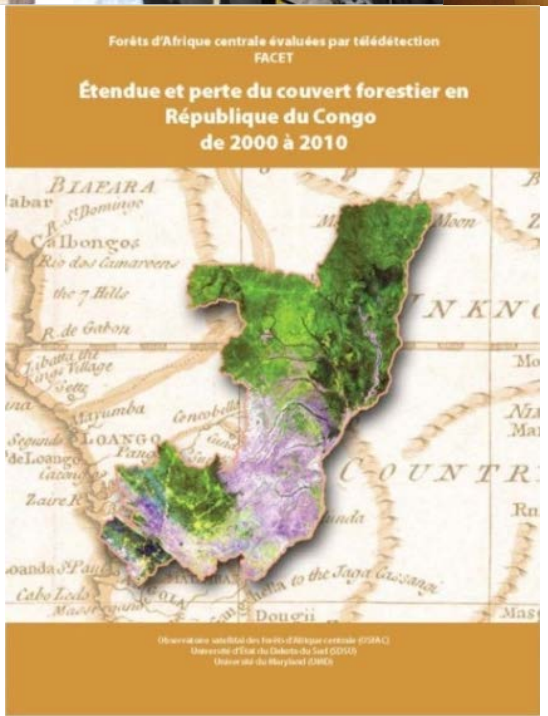
Financial Support : USAID/CARPE, EU

Technical Support : UMD, SDSU, NASA, GOFC-GOLD, START

GIS, Remote sensing and GPS trainings in OSAFC's Labs.

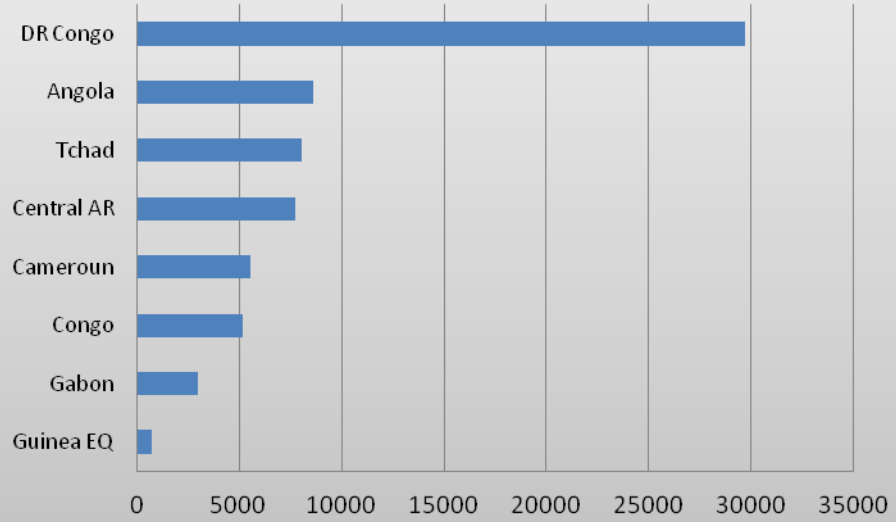


OSFAC : Database of satellite images



FACET : Monitoring the forests of Central Africa using Remote Sensing Data set

OSFAC : Satellite images distributed by country



	Guinea EQ	Gabon	Congo	Cameroun	Central AR	Tchad	Angola	DR Congo
Satellite Images	762	2993	5150	5570	7740	8080	8609	29694

OSFAC INVOLVEMENT IN REDD PROJECTS

- Quantification of Carbon Stocks and Emissions in the Forest of the Congo (Leader: WRI); Location : Rep. of Congo
- Support EO-driven forest and carbon monitoring in Central Africa for REDD (*Projet REDDiness*, Leader: EUROSENSE, BELGIQUE); Location : Rep. Congo & Gabon
- Science Based Remote Sensing Services to Support REDD and Sustainable Forest Management in the Tropical Region (*Projet Recover*, Leader: VTT / NORUT, FINLAND); Location : DRC
- Biomass and Carbon mapping by Lidar (Leader:WWF, GERMANY), Location : DRC
- Projet Pilote REDD intégré autour de la Réserve de Biosphère de Luki (RBL) dans la forêt du Mayombe (Leader:WWF, BELGIUM); Location: DRC

QUESTIONS

- What is your tool ?

National scale maps of forest cover type, extent and change.

- What do you with it, why do you do it/purpose of tool ?

Data sets are packaged into atlases and made available through our website to facilitate access to a broad range of users.

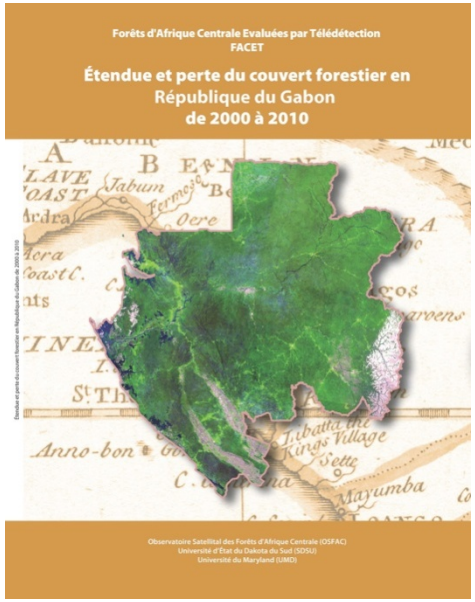
- What are its key elements ?

An automated mapping method developed by UMD/SDSU

a. Queries entire Landsat archive to overcome cloud cover.
b. Viable observations are calibrated and normalized with MODIS data.
c. Classification tree algorithms applied to map primary forest, secondary forest, swamp forest, woodlands and corresponding forest cover loss for 2000 to 2005 and 2005 to 2010.

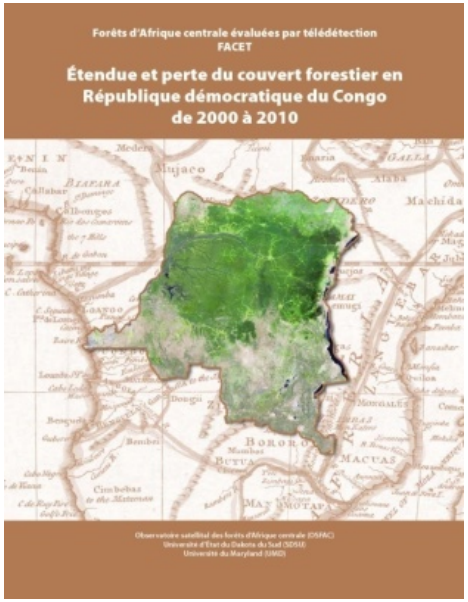
FACET: Monitoring the forests of Central Africa using remotely sensed data sets

Mapping the extent of forest cover and change in the countries of the Congo Basin, 2000 – 2010.



Gabon

Republic of Congo



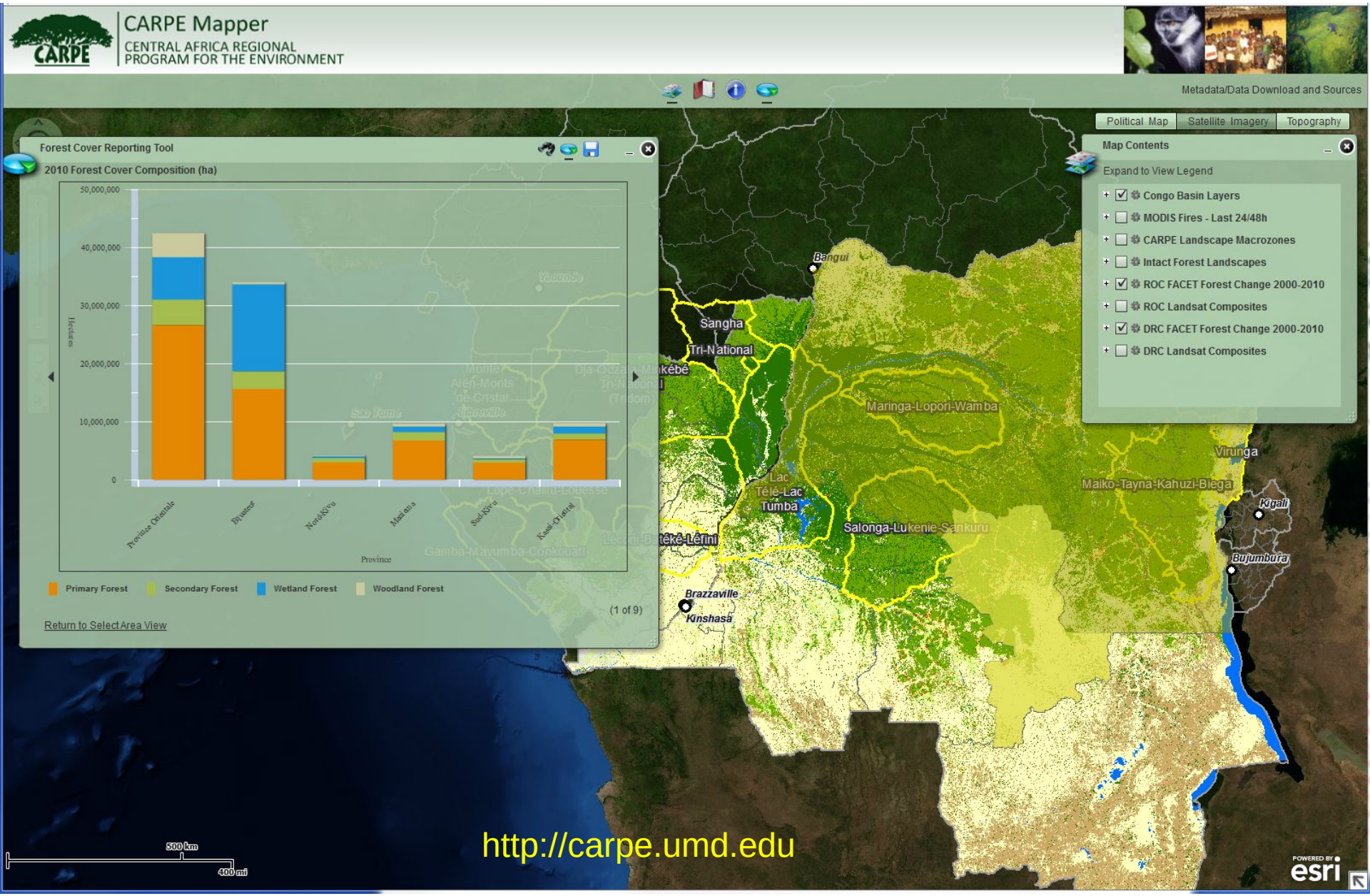
Democratic Republic of Congo

FACET (Regional Landsat scale forest extent and disturbance) *cf. Matt Hansen presentation*

FACET: Data is a primary thematic layer for DRC's NFMS portal

http://www.rdc-snsf.org

FACET: Data viewed and queried on CARPE Mapper



http://carpe.umd.edu

Recommendations: Information dissemination, data sharing and capacity building

✓ There is need for a coordinated international moderate resolution acquisition strategy to bring the Congo Basin under continuous observation

✓ **High resolution** and **microwave** data should be tested for REDD applications in Central Africa (**LIDAR also**)

✓ Reinforce Central Africa institutional capacity, human capacity and knowledge; supported with data, hardware and software

Thank you, visit us at htt://www.osfac.net