

Kyoto & Carbon (K&C) Initiative

Forest Theme

Current Status of Projects-June 2007

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Overview

- **Product name:**
 - Forest and biomass maps
- **Description:**
 - Development of biomass mapping using multitemporal PALSAR FBD, and regional mapping using PALSAR WB1. Validation at various regions.
- **PALSAR mode:**
 - FBD and WB1
- **Observation cycles:**
 - 12, 19, 20: Coverage France (including NE Spain) and Vietnam
- **Production schedule (estimated):**
 - Test area mapping (December 2007)
 - France forests mapping (June 2008)
 - Vietnam forests mapping (December 2008)
- **Estimated date of delivery:**
 - January 2009

Project Aims

- To provide consistent maps of forest extent and maps of forest biomass classes in large regions in France and Vietnam (and possibly central Siberia)
- To study experimentally a) post fire recovery and b) mangrove forest

Study Area

- **Local study areas:**
 - France: Landes forests, Lozere forests
 - NE Spain: Forests in Teruel regions (post fire recovery)
 - Vietnam: Darlak forests, Mangrove forests
- **Prototype areas:**
 - South of France & Northern Spain
 - Central Vietnam and coastal zones in Vietnam
- **Product areas:**
 - France & Vietnam

Supportive Datasets

- **Forest ground data:**

France:

- Landes: collaboration INRA, Bordeaux
- Lozere: collaboration CEMAGREF, IFN

Vietnam:

- Darlak forests: collaboration Institute of Remote Sensing, HoChiminh City
- Mangrove forests (Minh Hai, Can gio): collaboration Remote Sensing Center, Hanoi

Spain:

- Teruel forest (NE Spain): collaboration University of Zaragoza

Airborne data:

RAMSES SAR at P and L bands: Landes, Lozere

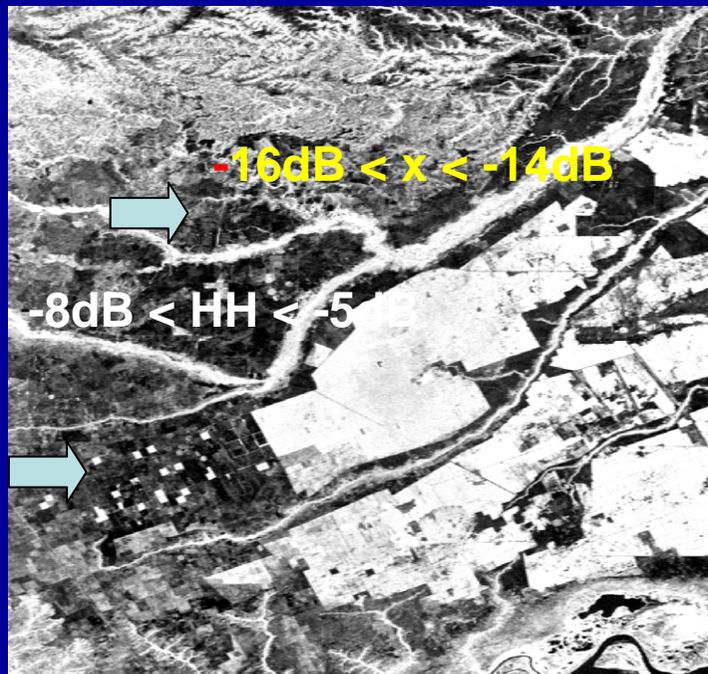
Other remote sensing data:

ASAR, SPOT, Landsat, VGT, MERIS

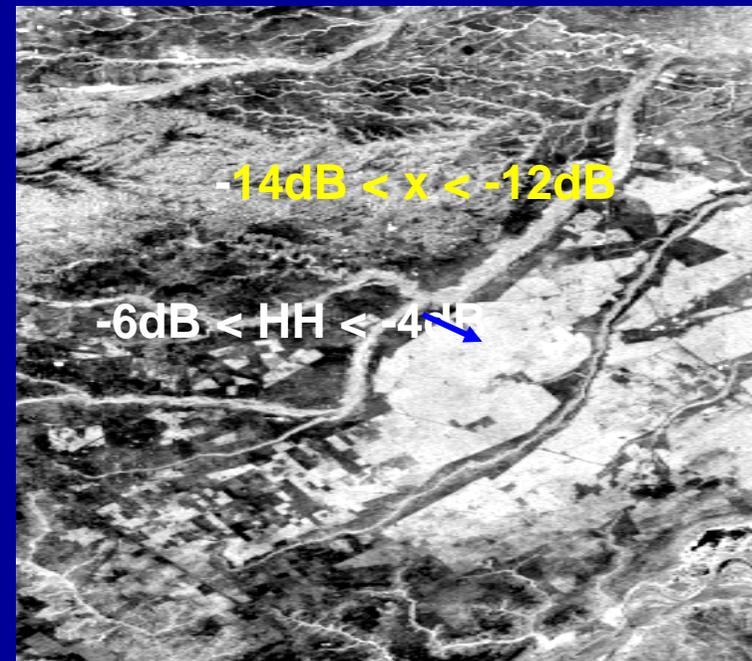
Preliminary Results

- ALOS data over study areas are expected for cycle 12
- Preliminary analysis:
 - Test of the processing chain at CESBIO on PALSAR data
 - Analysis of the data quality

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PALSAR WB1, 19/11/2006



Change in plantation of *Pinus caribaea* var. *Hondurensis*,
Venezuela ($8^{\circ}29'-9^{\circ}25'N$, $62^{\circ}30'-64^{\circ}40'W$)

Future work before K&C 9

- Establishment close contacts with collaborators for forest ground data
Summer 2007
- Test and adaptation of the processing chain at CESBIO on the PALSAR data: On going
- Analysis of PALSAR data on local test areas and refinement of mapping methodology
September-December 2007