

SERVIR

The Regional Visualization and Monitoring System



Mainstreaming EO into Decision Making For Sustainable Development



About CATHALAC





About SERVIR

- SERVIR (*to serve* in Spanish) is a regional visualization and monitoring system that uses satellite imagery and other data sources for environmental and disaster management.
- Functions in Mesoamerica, the Dominican Republic, five countries of East Africa, and the Himalayas.
- Low cost system that capitalizes on existing space and ground based assets and is operated and controlled by the host nations.
- Nations work with USAID, NASA, and CATHALAC to determine the suite of decision support tools and products required to meet pressing regional assessment and monitoring needs.
- Partnerships/collaboration is a cornerstone to SERVIR's success
- Primarily supported by USAID and NASA



SERVIR Team

Building regional to national to local relationships through SERVIR geosciences platforms and people



SERVIR-Mesoamerica
Clayton, Panama
at CATHALAC



SERVIR Test-Bed and
Coordination Office
NASA/Marshall Space Flight
Center
Huntsville, Alabama



SERVIR-Africa
Nairobi, Kenya
at RCMRD
(With NASA/Goddard
Space Flight Center
Science/Applications
Team)



Colaboradores de SERVIR

Implementing Agencies



Ministerios de Ambiente



US Gov.



Otras agencias espaciales



ONGs



Universidades, Institutos, Asociaciones



Empresas

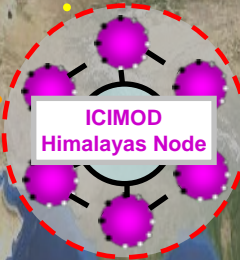
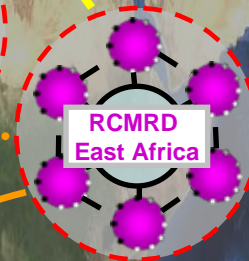
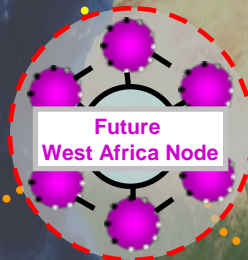


Otros:

Disaster Charter (CONAE), CENAT, etc.

SERVIR Network

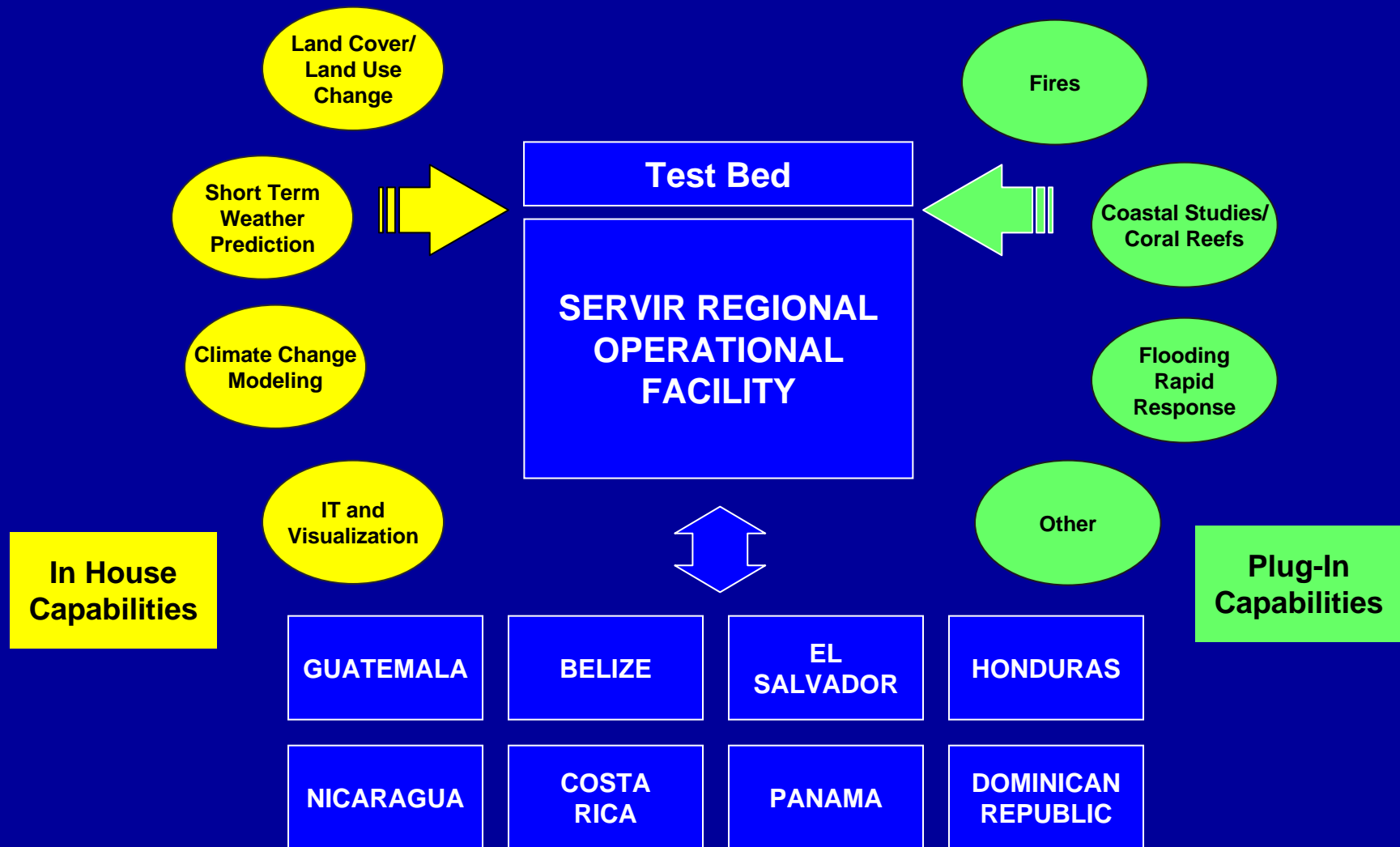
SERVIR
Coordination Office
NASA/MSFC



Current Links 
Future Links 

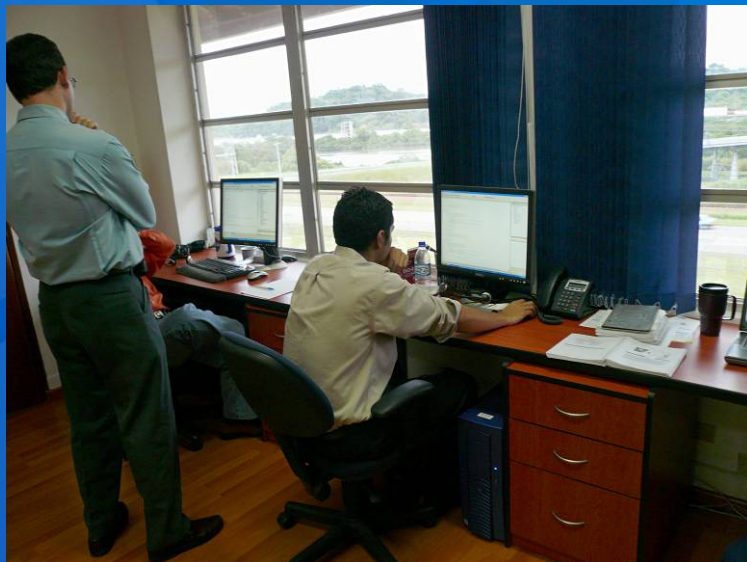
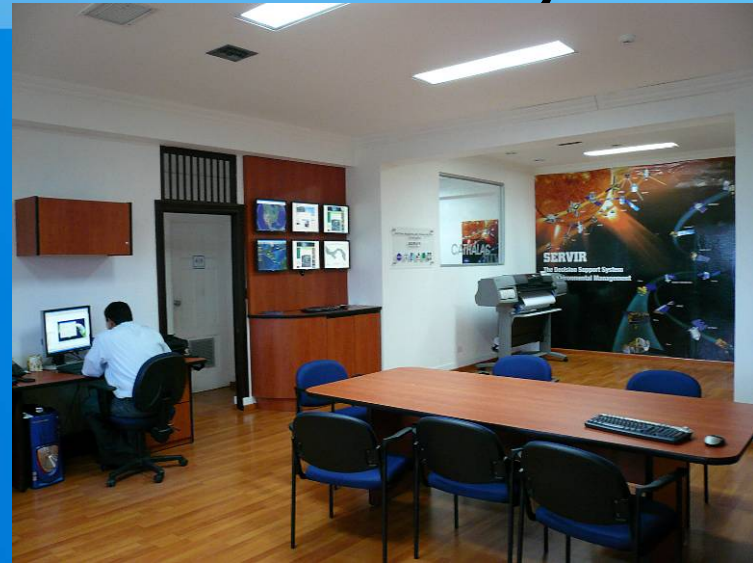
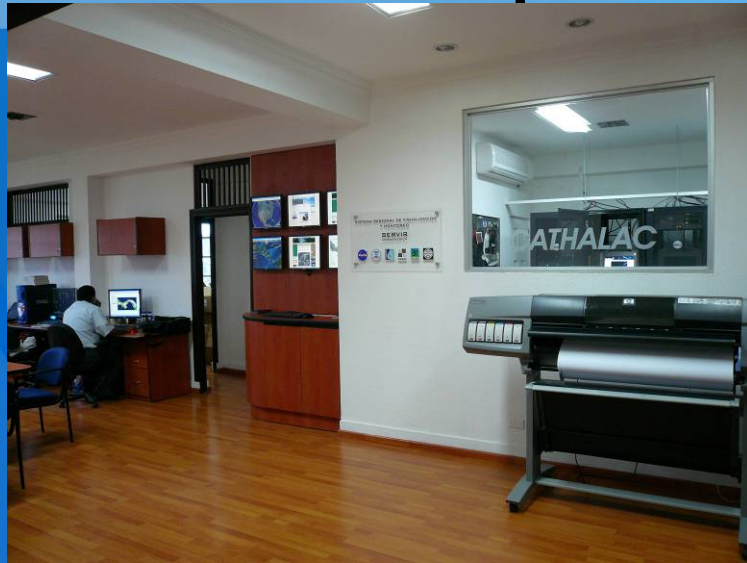


Initial SERVIR Framework



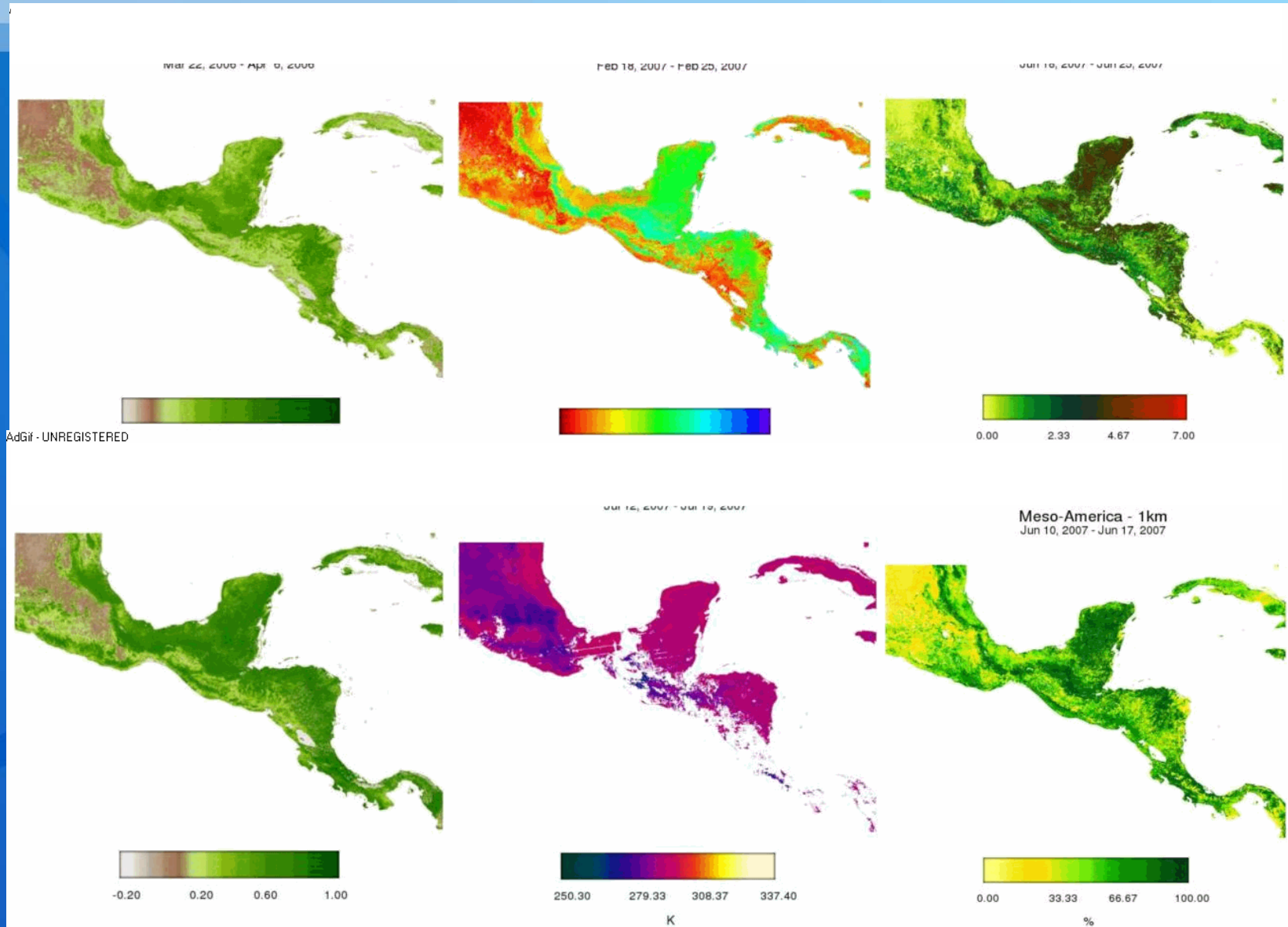


Inside SERVIR Regional Operational Facility



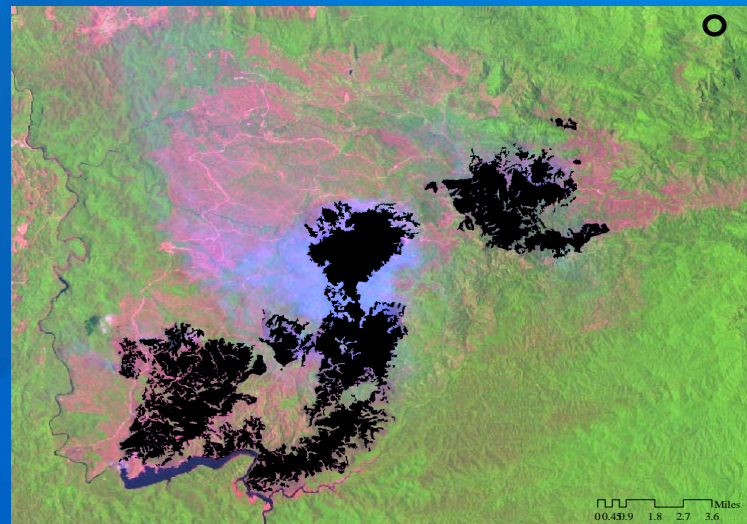
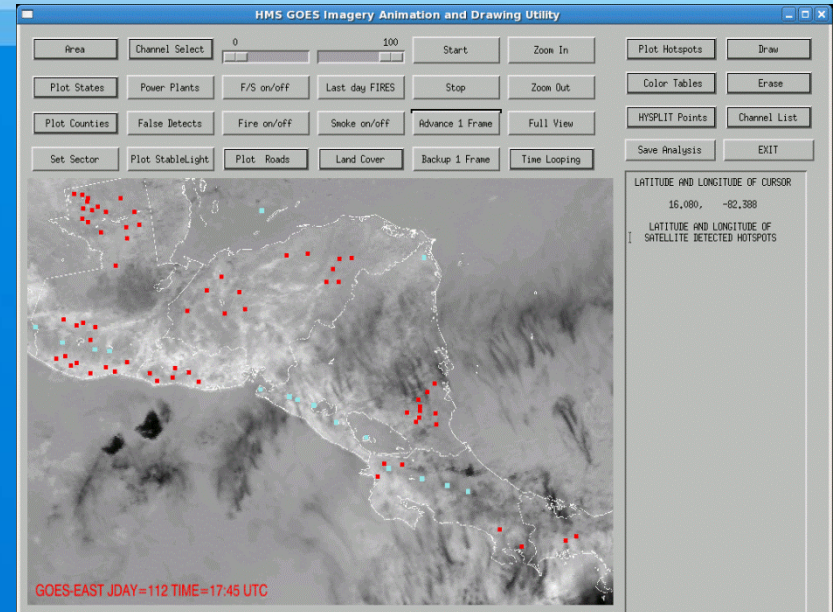
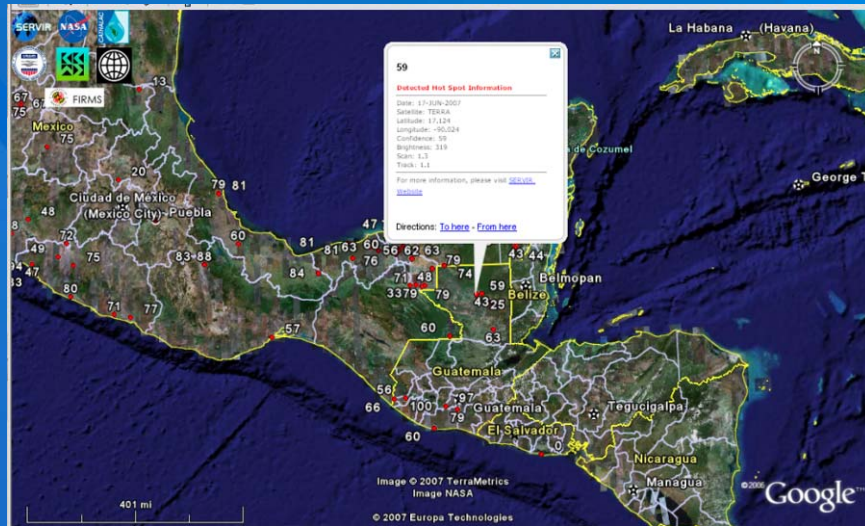


Monitoring Regional Ecosystems Health



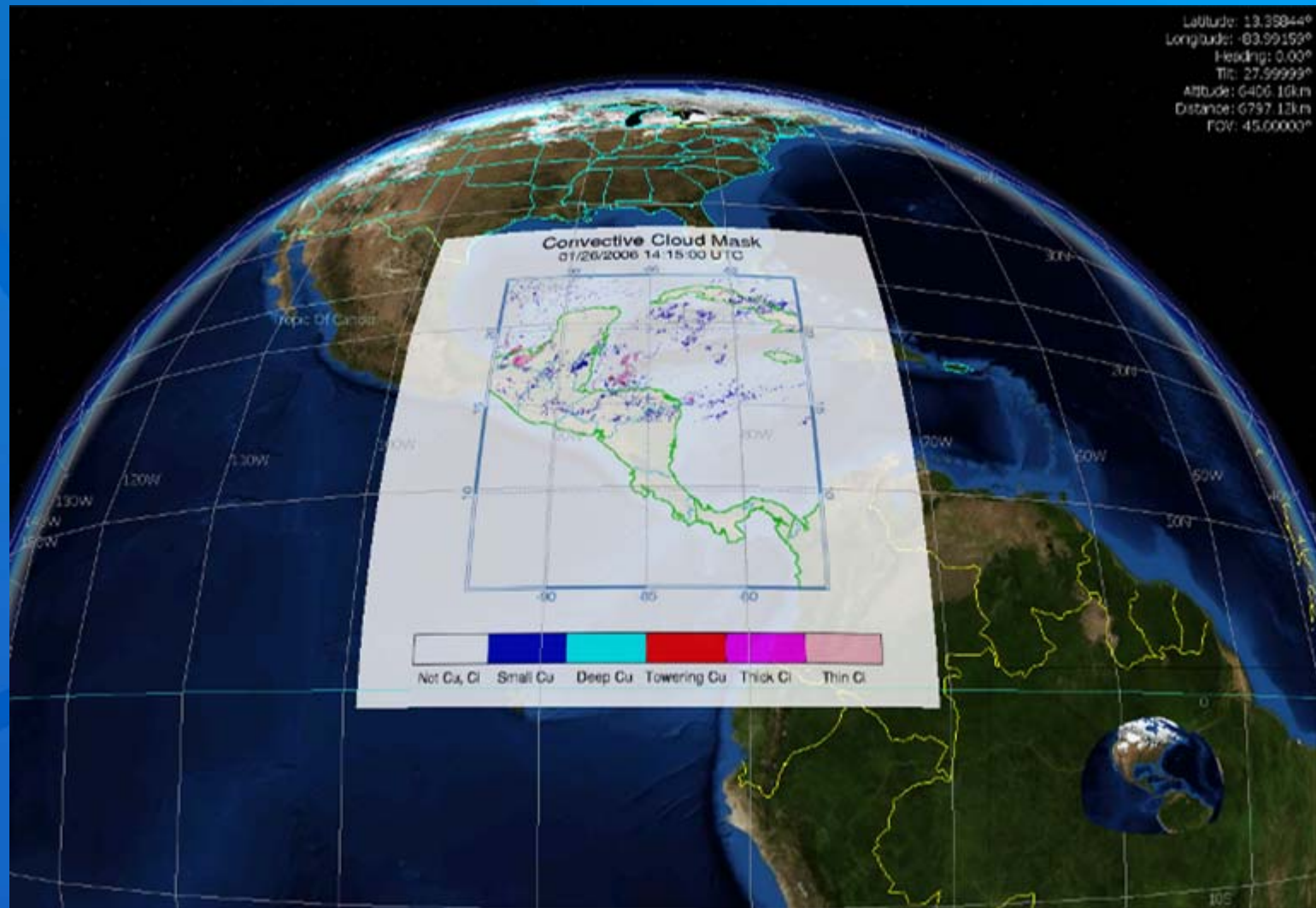


Decision Support: Fires





Decision Support: Nowcasting



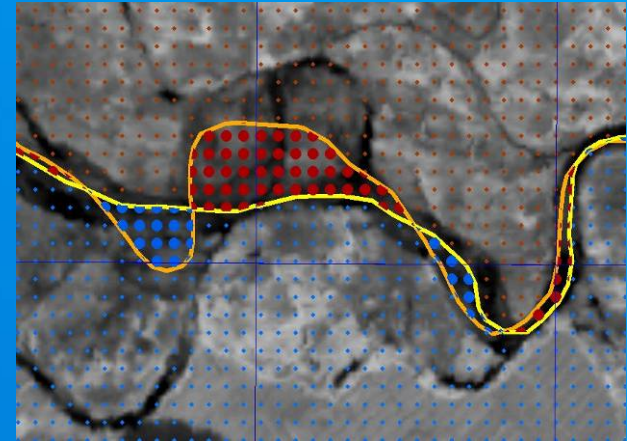


Decision Support: International Boundary Disputes



Pre-Flood

ASTER



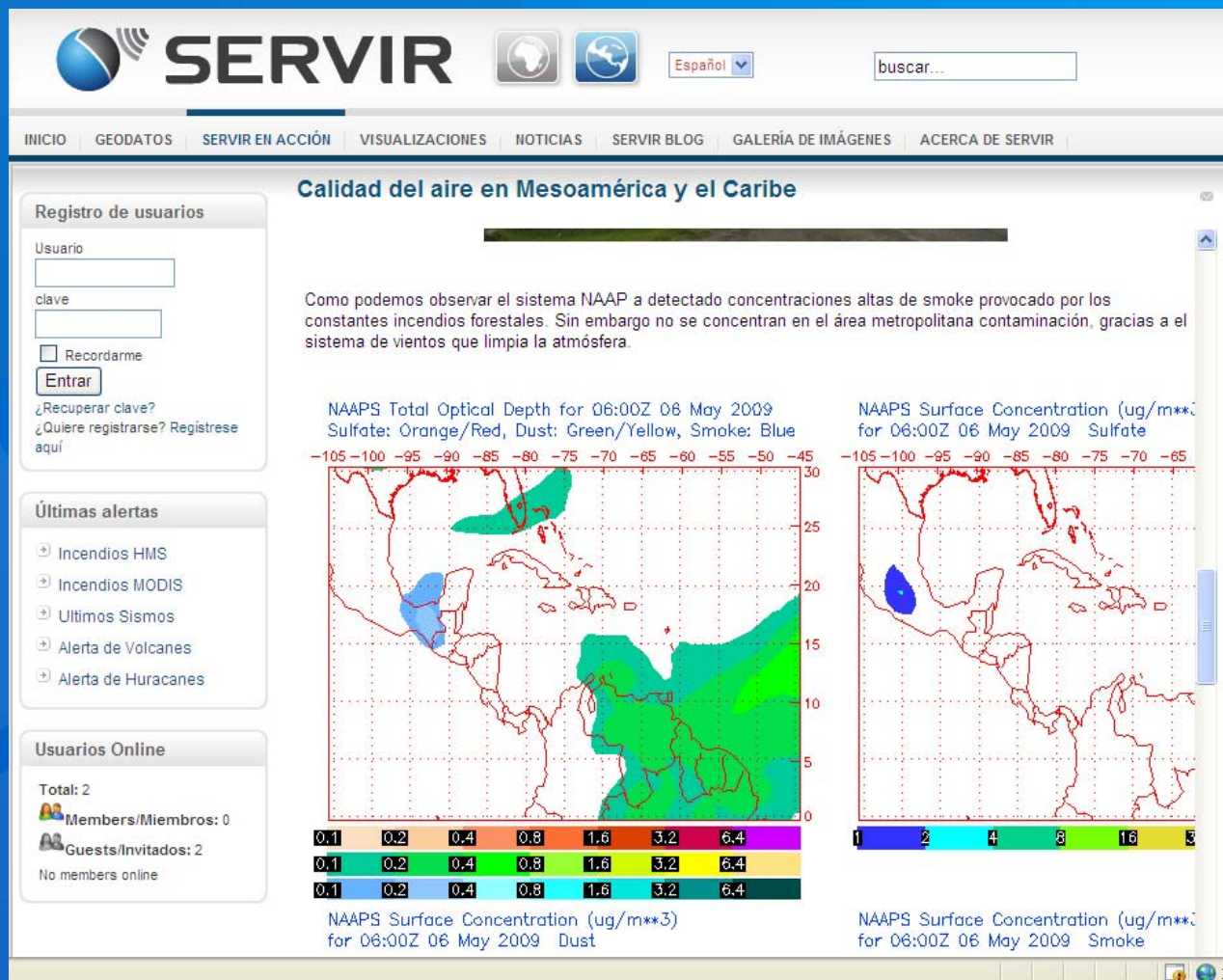
Post-Flood

SPOT

**Red - Panamanian Land
Now on Costa Rican Side
of the Channel**
**Blue - Costa Rican Land
Now on Panamanian Side
of the Channel**

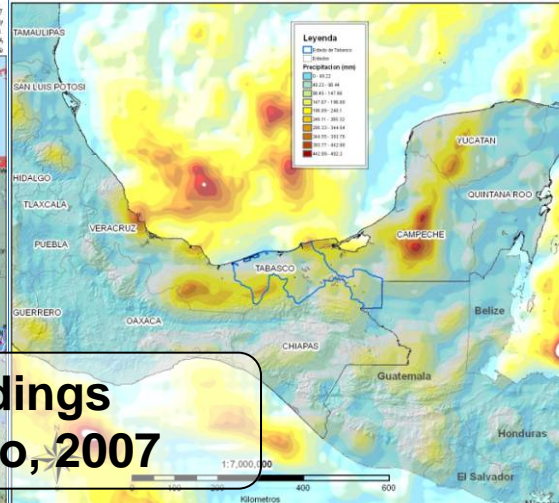


Decision Support: Air Quality

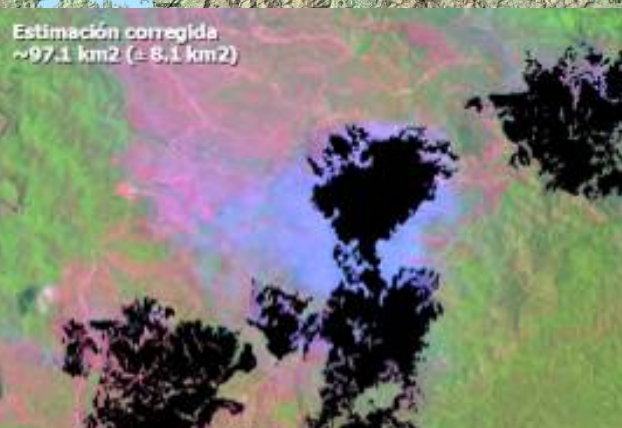




Floodings Tabasco, 2007

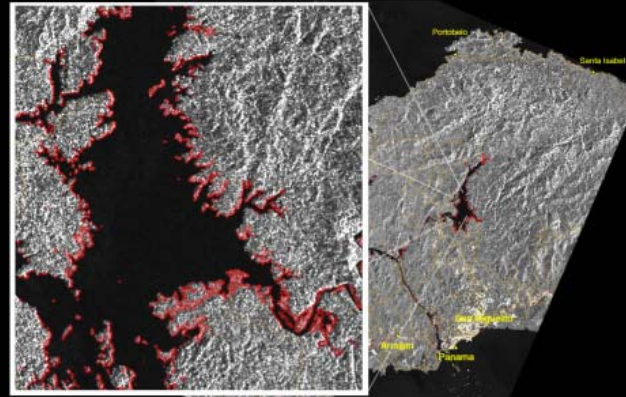


Landslides Rep. Dominicana, 2007



Forest fire analisis

Belice, 2007

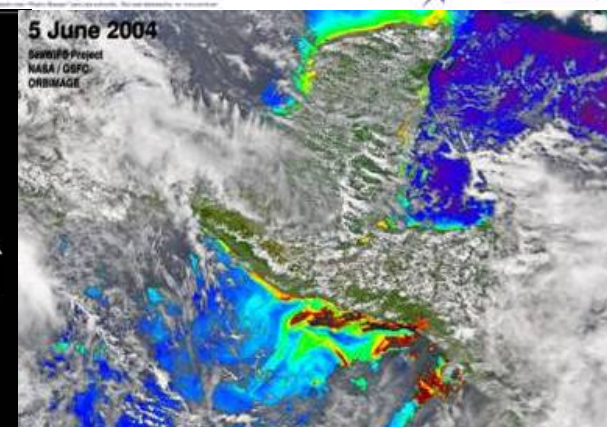


LACISERV

500,000

Flooding

Panamá, 2006/2008



Red Tide
El Salvador, 2004



Decision support on the spot (Nov 2008)





Training & Capacity Building





The Future: From an applied R&D Project to an International Program

- 2006 – UNEP-LAC Ministerial Decision to mainstream EO into environmental decision making in LAC
- 2007- Project Manager for the Disaster Charter
- 2007 – GEOSS Early Achievement
- 2007 – Environmental Information System for
- 2010 – UN-SPIDER Regional Support Office



The Future: From an applied R&D Project to an International Program

- 2008 – Presidential Mandate to Develop and Coordinate the Mesoamerican Land Information System for Natural Disasters



- 2010 – Negotiating Presidential Mandate to Establish and Operate the Mesoamerican Weather Radar Network



The Future: CATHALAC New Campus

