GROUP ON EARTH OBSERVATIONS

Capacity Building Committee (CBC) Activities

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CBC Member
USAID
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What is Capacity Building?

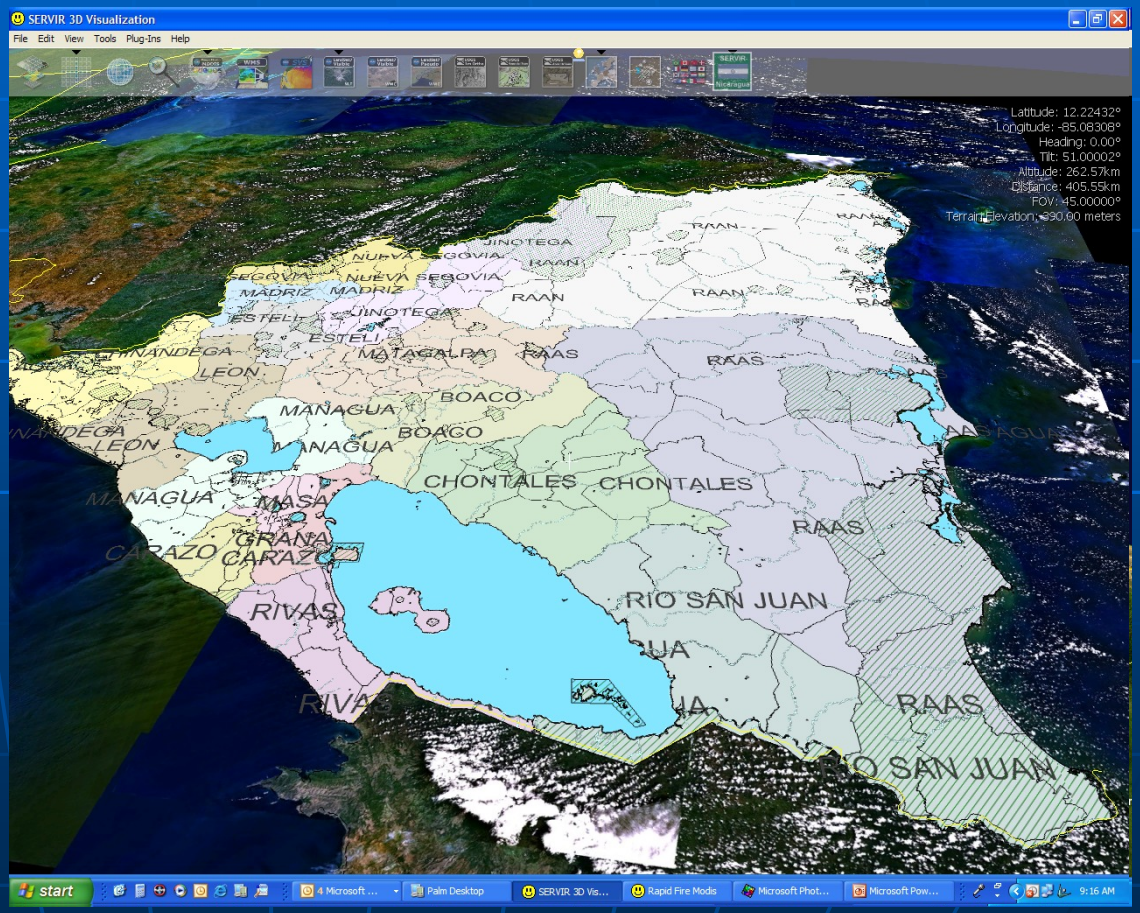
- **Human:** Education/training to increase awareness of, access, use, and development of EO data & products
- **Institutional**: Fostering an environment to enable use of EO to enhance decision-making
- **Infrastructure**: Promoting hardware, software, and other technology required to access, use and develop EO data & products for decision-making

GEO Capacity Building Strategy:
Six Priority Actions

- Promotion of GEO Web Portal
- Promotion of GEONETCast
- Promotion of EO capacity building networks
- Promotion of development & use of open-source software
- Promotion of national & regional capacity
- Engaging donors in capacity building priorities

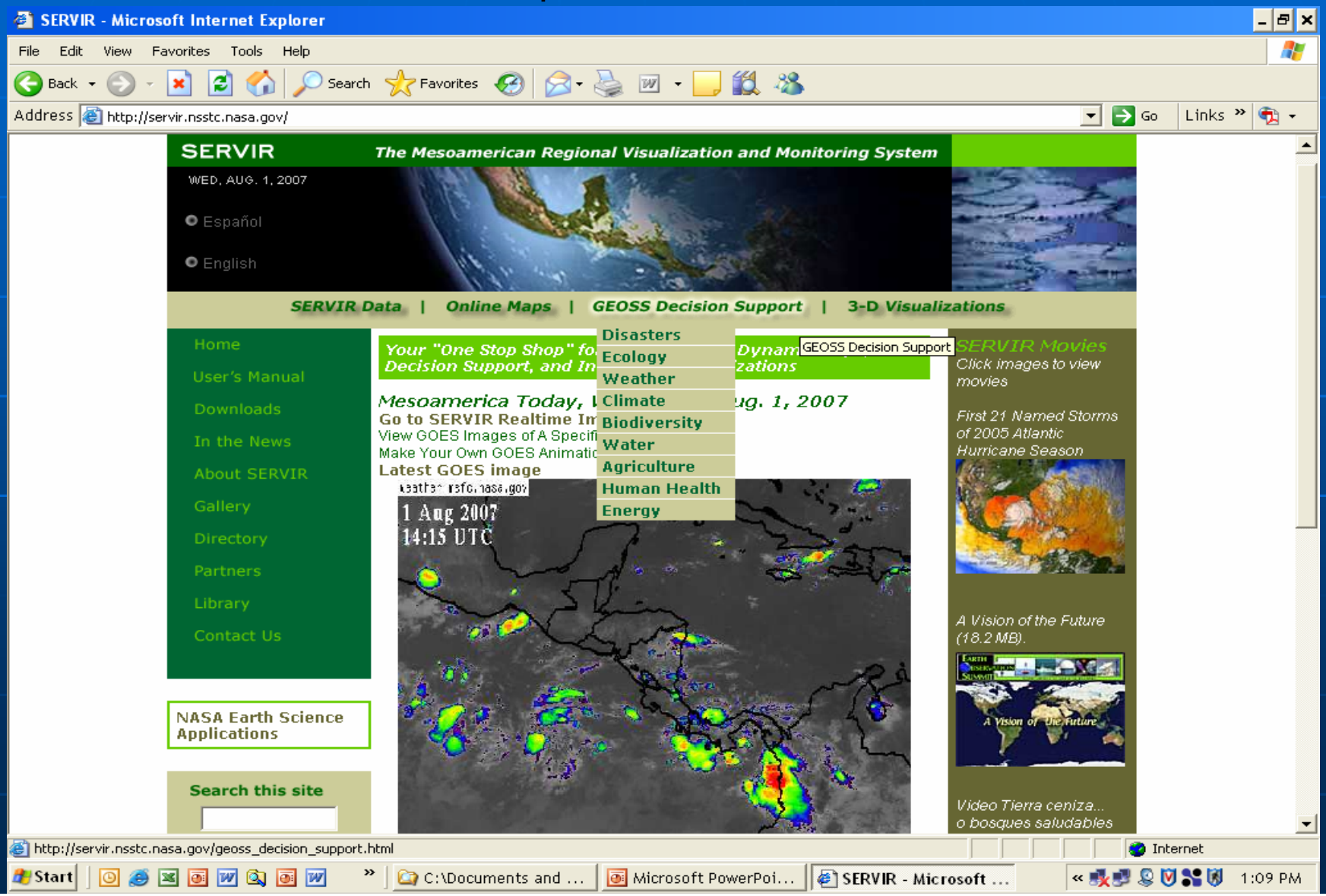
Capacity Building in Central America with SERVIR:
a data portal, online mapping, and 3-D earth visualization tool

- NASA and COTS
  - World Wind
  - Google Earth
- Users
  - Decision Makers
  - Media
  - Educators
  - Students
  - Private Industry

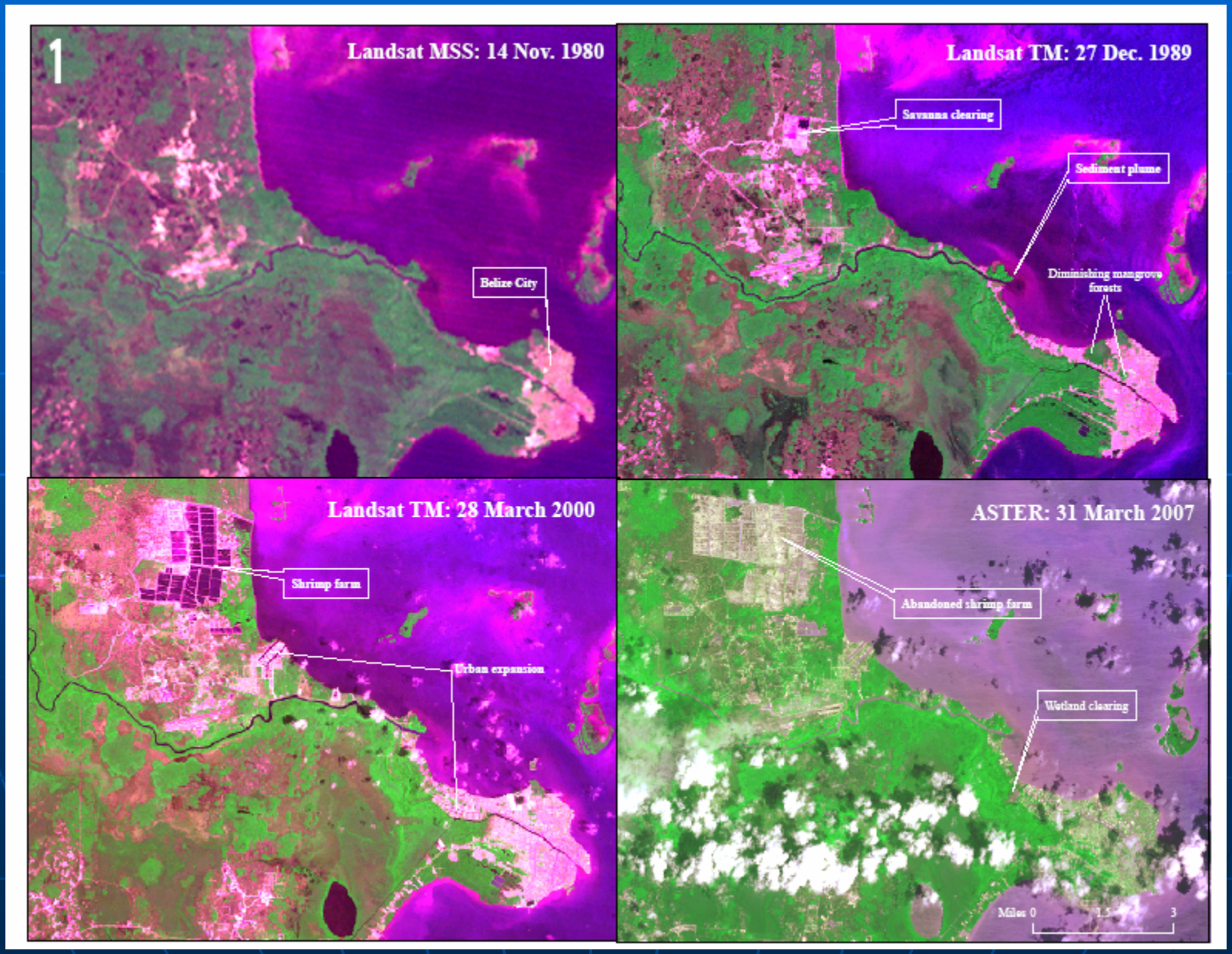


SERVIR: Earth Observation Tools & Geospatial Information for Decision Support

http://www.servir.net



Land Cover Change: Belize



SERVIR : Fire Alerts in Central America

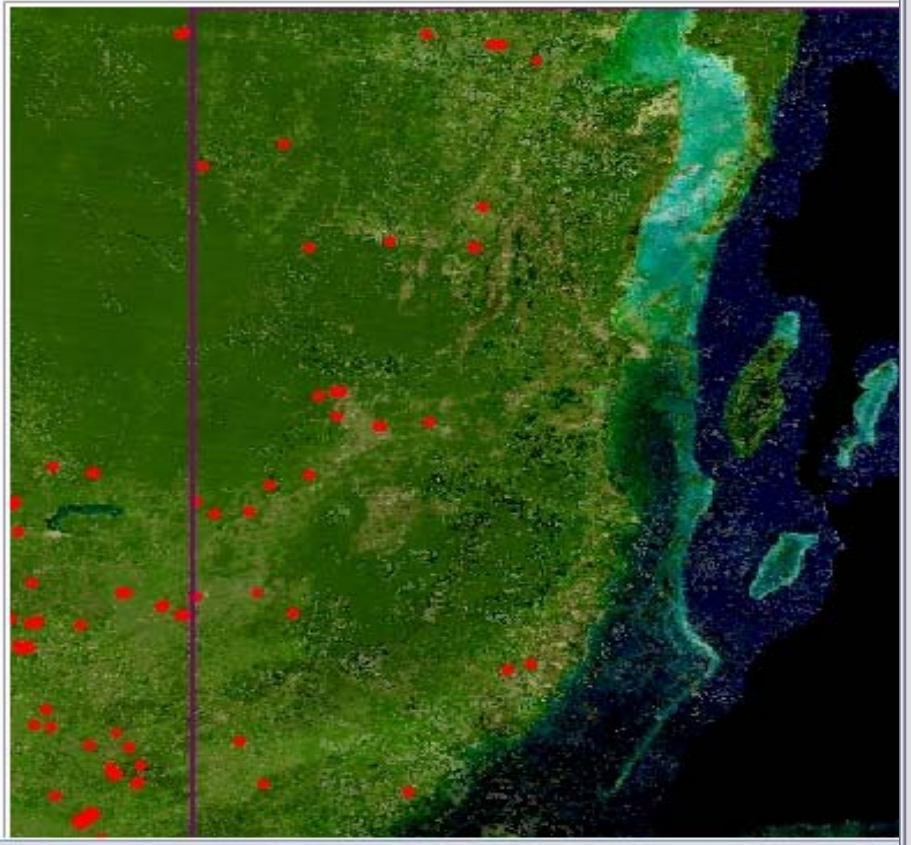
ALERTA DE INCENDIOS EN MESOAMÉRICA

SERVIR

Sistema de Monitoreo y Visualización para Mesoamérica

SERVIR WEB FIRE MAPPER

Correo Electrónico generado 4/23/2006 1:23:41 AM



18.425	-88.502	317.6	1.3	1.8	2006-04-22	1935	A	0

El número de incendios activos detectados/procesados en su área de interés es: 34
Región de Interés:

BT= Temperatura de brillo(Kelvin)
Date= Fecha de adquisición de MODIS
Sat= Satélite(A=Aqua and T=Terra)
Conf= Confianza
Scan= Recorrido
Track= Pista

Para ver información de incendios activos con otras coberturas SIG o para consultar la base de datos completa visite Central-America- Web Fire Mapper

Para mayor información vaya a preguntas frecuentes o Contáctenos

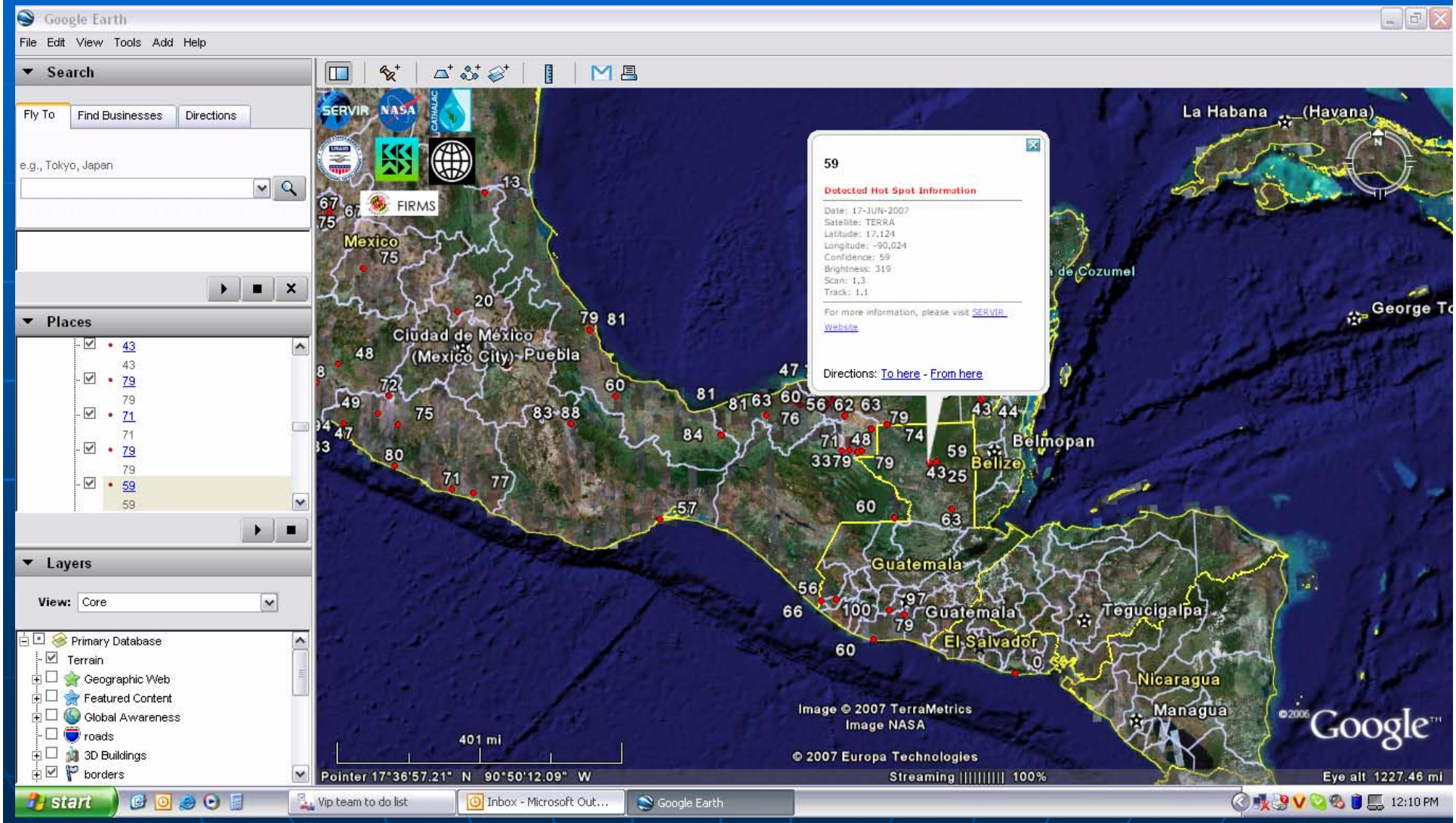
Por favor tenga presente que las nubes pueden afectar la detección de incendios activos. Para poder consultar incendios activos en otras regiones vaya a Web Fire Mapper

Por favor tenga en cuenta que el archivo jgw adjunto es un documento de World que contiene información de georeferenciación para la imagen jpeg. Para ver la imagen jpeg en un SIG local, grabe el archivo jgw y jpeg con el mismo nombre (e.g..AlertaIncendio.jpg y AlertaIncendio.jgw) a un folder común.

Descargo: Conservación Internacional (CI) y la Universidad de Maryland (UMD) no garantizan que los datos, la base de datos o cualquier información generada usando estos datos o la base de datos estén exentos de error. Los datos se suministran 'como están' y ni CI ni UMD hacen declaraciones que expresen o impliquen garantías de ninguna clase, incluyendo aunque no se limita a cualquier garantía implicada en la comerciabilidad o aptitud de los datos para un propósito particular. La institución receptora consiente en no proporcionar ningún tipo de garantía referente a los datos o a bases de datos a terceros en nombre de CI o UMD.

CATHALAC NASA MODIS USAID FROM THE AMERICAN PEOPLE UNIVERSITY OF MARYLAND 1856

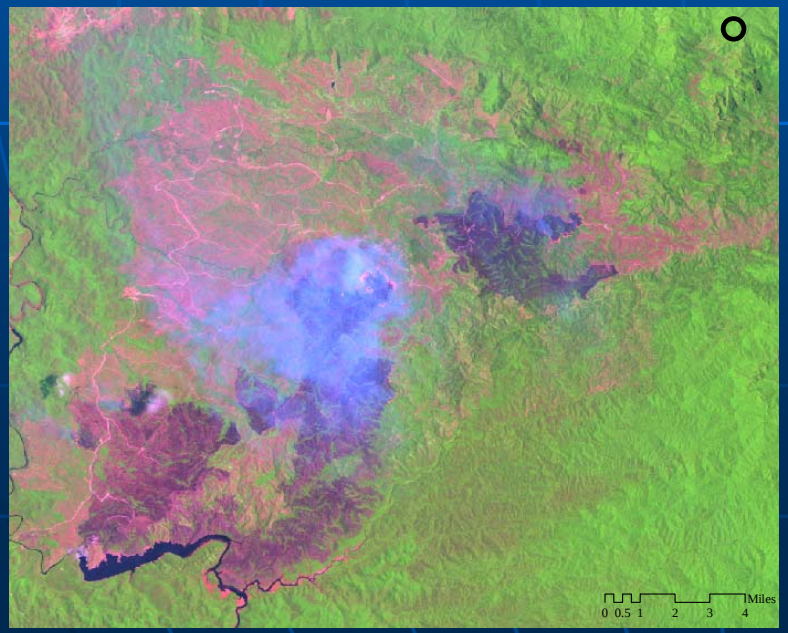
Fires (continued)

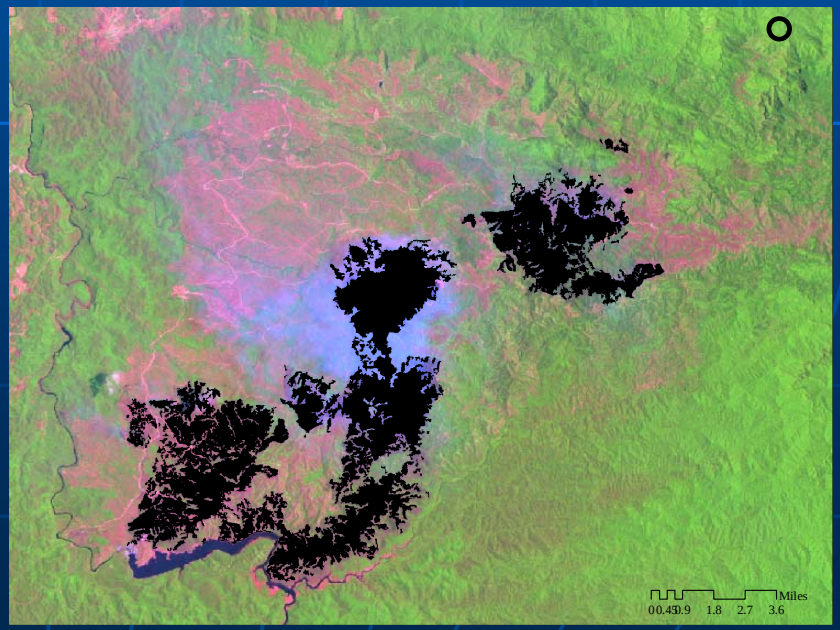


Burn Analysis: Belize

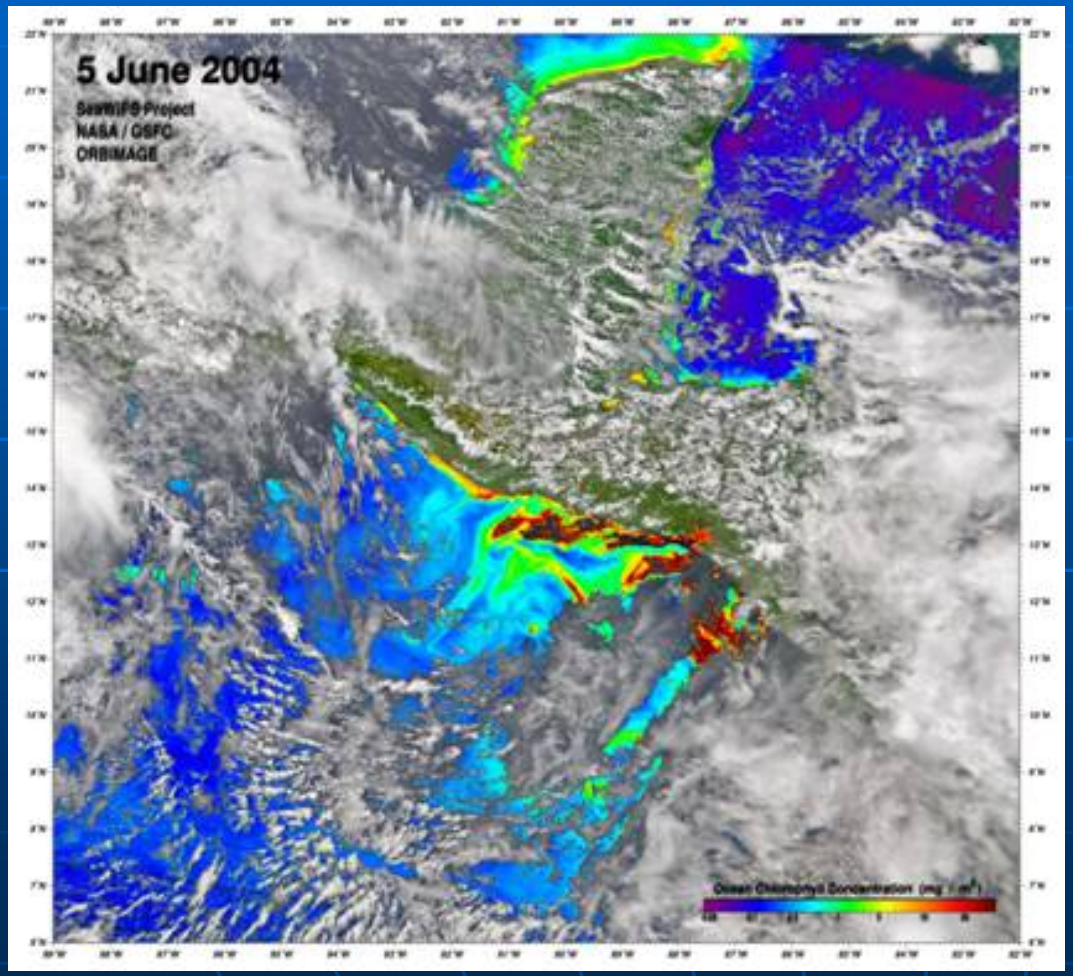
2007 Fires in Mountain Pine Ridge Forest Reserve

- Fires raging from April 28-May 25
- ~33,000 acres burned
- Decision support to Belize Forest Department, making use of ASTER, LandSat 7 and MODIS data

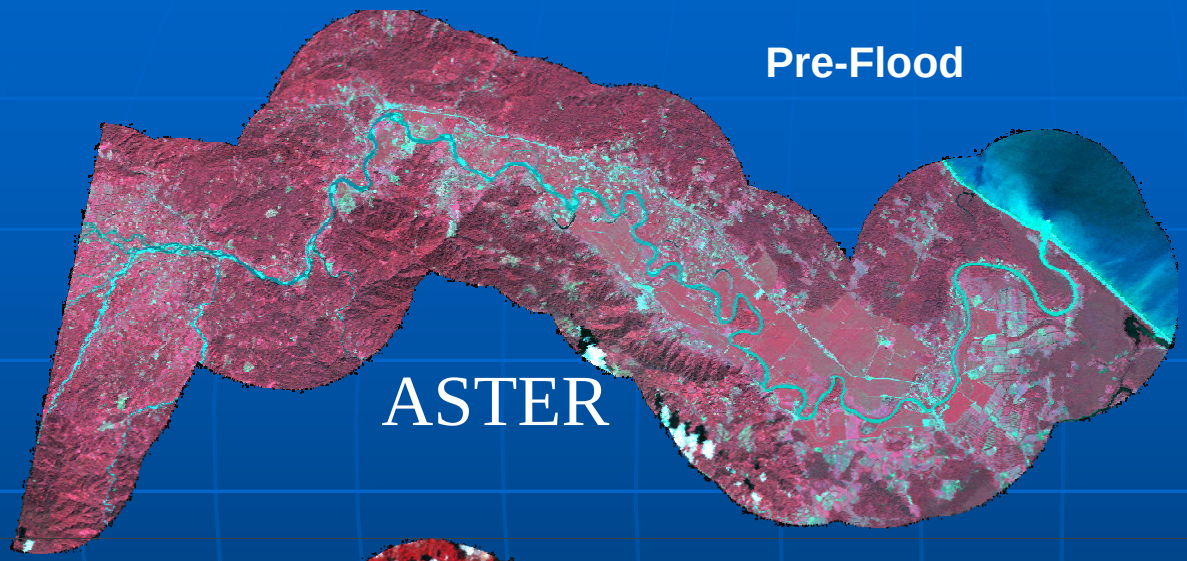


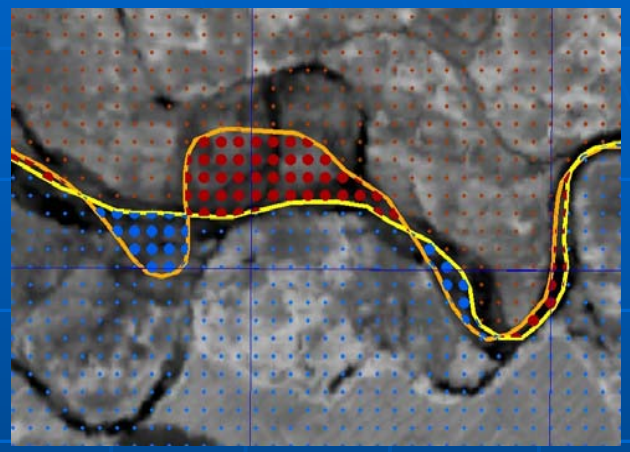


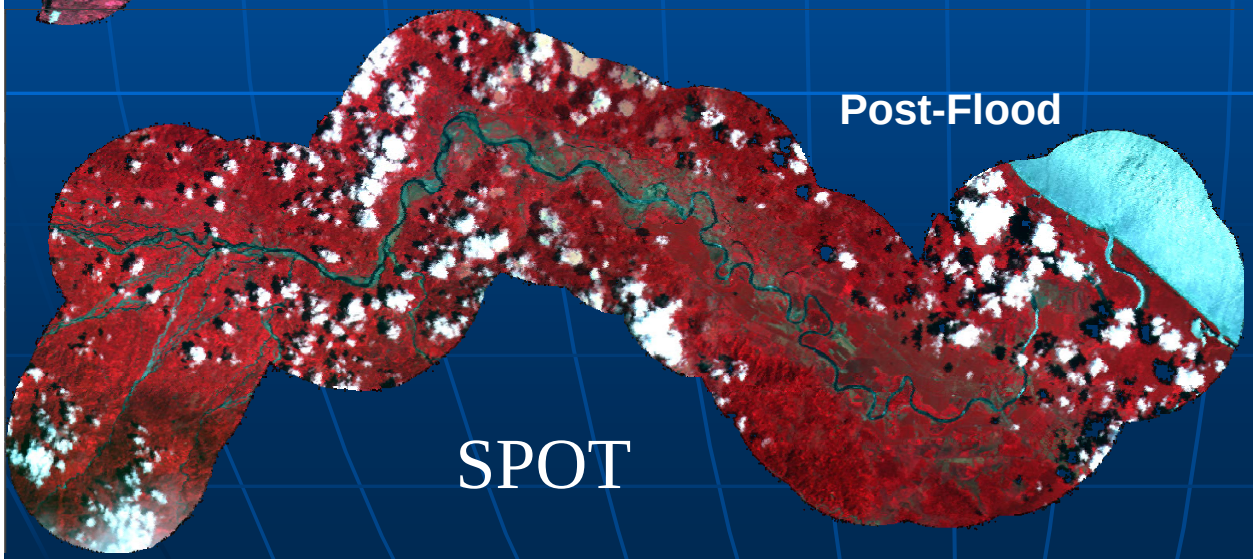
Harmful Algal Blooms: Central America



Change Detection of International Boundaries: Panama & Costa Rica







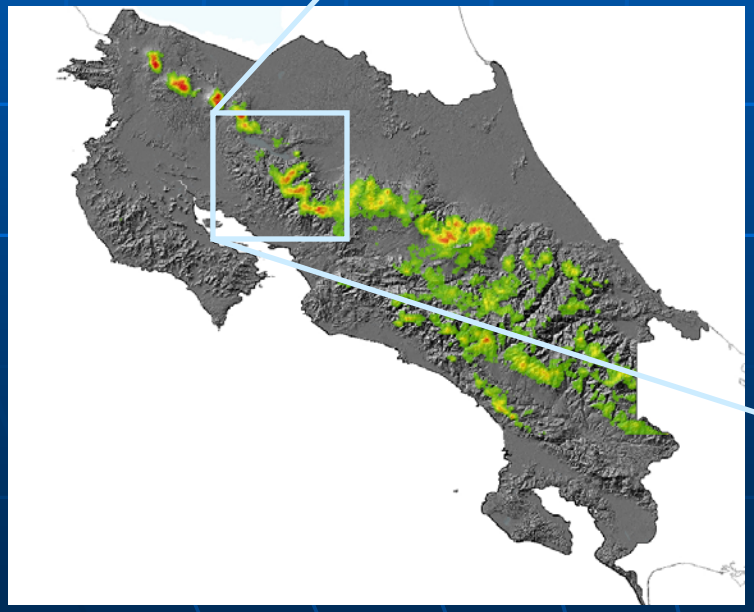
Red - Panamanian Land Now on Costa Rican Side of the Channel

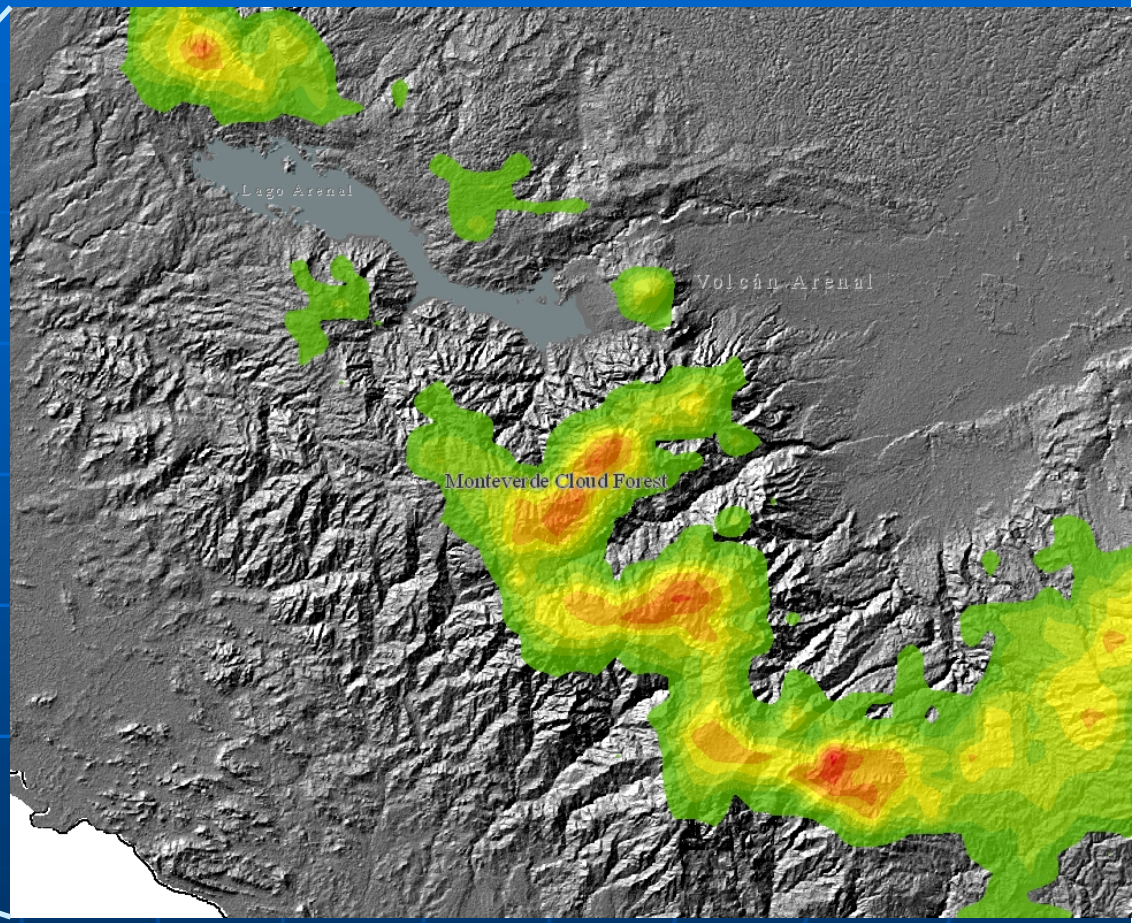
Blue - Costa Rican Land Now on Panamanian Side of the Channel

Cloud Forest Mapping: Costa Rica

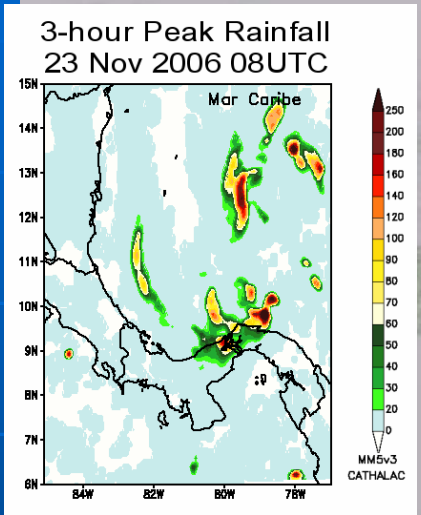
Cloud Base Heights/MODIS

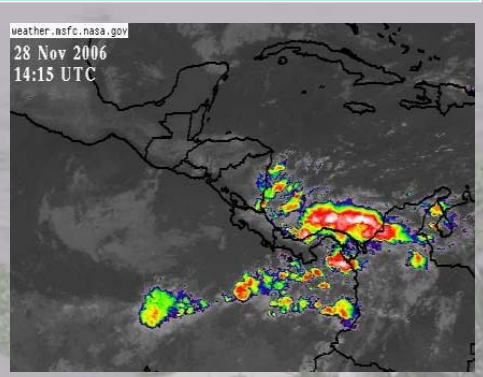
- Cloud effective droplet radii
- Cloud top temperature
- Cloud optical thickness
- Cloud mask





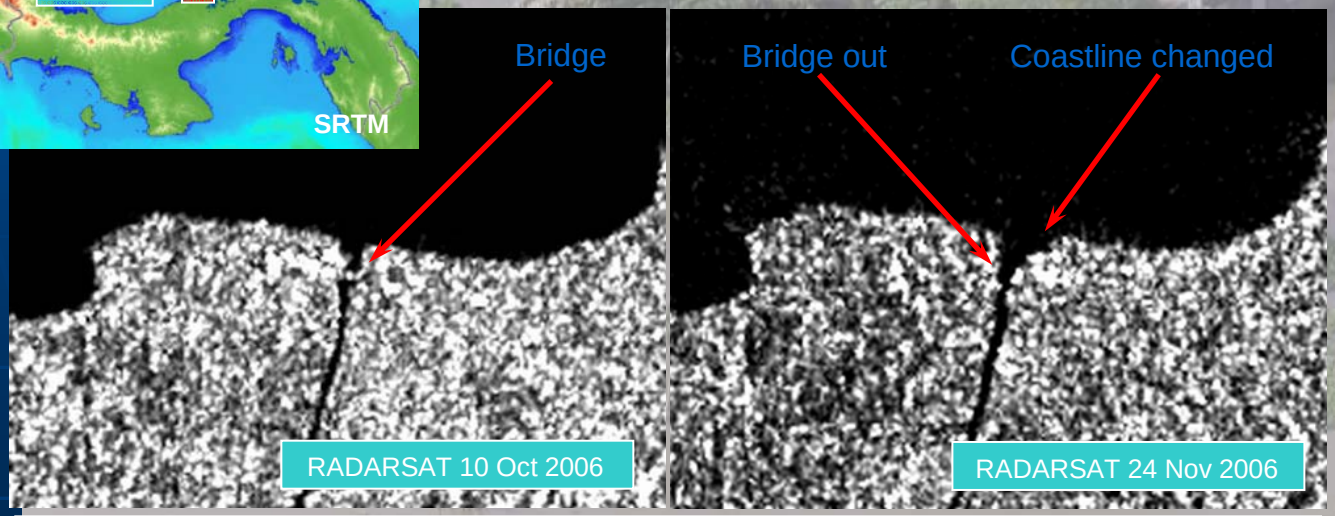
SERVIR Response to Flooding in Panama, November 2006





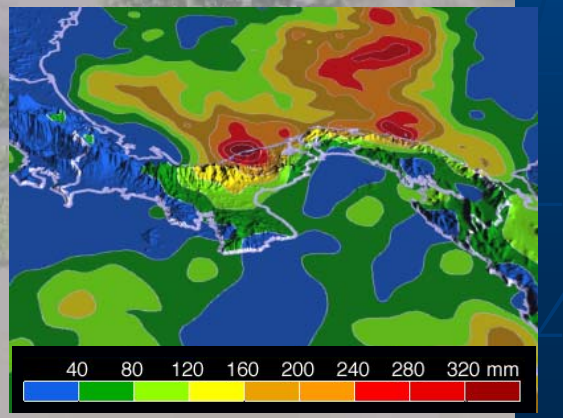
Met products such as MM5 (left), WRF, and SPoRT model outputs, along with GOES imagery (above), provide a continuous support mechanism for decision makers.

Panamanian President Martin Torrijos (left) consults with meteorologist Annette Quinn and Director of CATHALAC Emilio Sempres at the SERVIR facility in the City of Knowledge, Panama.

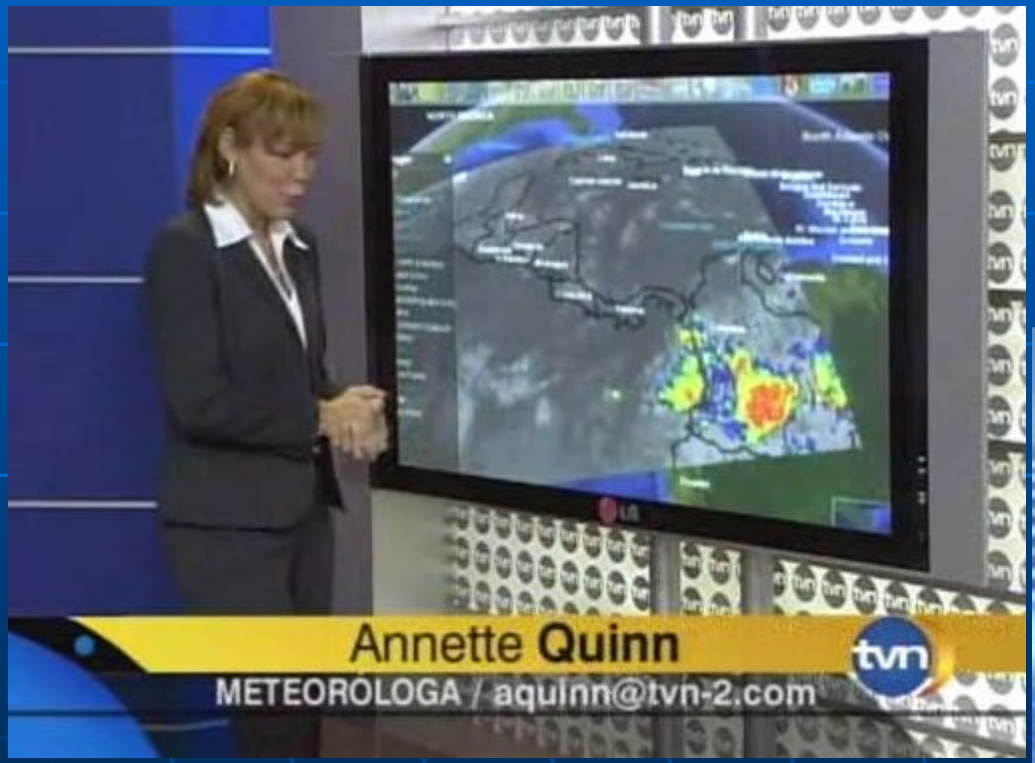


Change detection analysis (above) based on RADARSAT data near Rio Indio, Panama. These images help the Panamanian disaster response agency to focus their efforts in the areas of the flood's greatest impact.

TRMM data (below) are used to show total rainfall accumulation over the period November 20-28, 2006.



SERVIR Product Dissemination: Daily Weather Forecasts in Panama



SERVIR Expansion Based on Regional Requests:

- Caribbean
- South America
- Eastern Africa