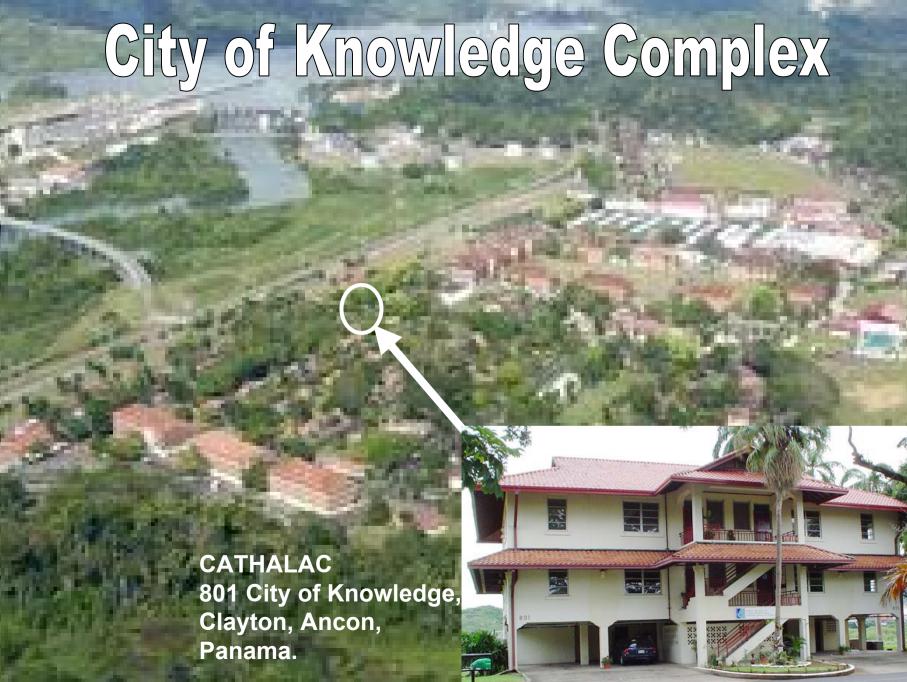




CATHALAC's Regional Work on Adaptation to Climate Variability and Change

Latin American Regional Workshop on Adaptación, Perú. April 18-20, 2006

Emilio Sempris
Director
CATHALAC







Regional Work on Adaptation to Climate Variability and Change

- Capacity Building for State II Adaptation to Climate Change in Central American Mexico and Cuba.
- Regional Visualization and Monitoring System (SERVIR).
- Regional Training Facility

omento de las Capacidades para la Etapa II de Adaptación al Cambio Climático en Centroamérica, México y Cul







Capacity Building for Stage II Adaptation to Climate Change in Central America Mexico and Cuba



 Participating Countries: Mexico, Guatemala, Honduras, El Salvador, Nicaragua, Costa Rica, and Panama;



- Duration: 3 years
- Implementing Agency: UNDP
- Systems addressed: Agriculture, Water Resources, Human Health, Forest, Livelihood, and Coastal Zones.





GEF











UNFCCC Background

- Initial Guidance from the COP on Adaptation and Governmental Support:
 - Decision 11/CP1 on Stage II Adaptation:
 "Measures, including further capacity building which may be taken to prepare for adaptation as envisaged in Article 4.1(e)";
 - Decision 2/CP4 ".....to strengthen climate change regional centers of excellence."
 - UNDP-GEF NCSP Workshops 1999-2002
 - Ministerial endorsement in 2001-2002;
- Builds upon first generation of I,V&A assessents under the UNFCCC-NC process.











GEF

Institutional Arrangement

- National UNFCCC Focal Points
 - Cuba: Meteorology Institute of the MSTE
 - Mexico: INE
 - Guatemala: MARN's CCU
 - Honduras: MNRE
 - El Salvador: MARN's CCU
 - Nicaragua:MARN's CCO
 - Costa Rica: National Meteorological Institute
 - Panama: ANAM' CCTU
- At the Regional & International Level
 - CATHALAC
 - UNDP-RBLAC & UNDP-GEF NCSU





Development Objective





 The project aims to strengthen the adaptive capacity of human systems to reduce vulnerability to the impacts of climate change, including climate variability, risks and extreme events for priority systems throughout the Central America, Mexico and Cuba Region.









Immediate Objectives and Outputs



Immediate Objective 1

 To strengthen systemic, institutional and individual capacit of stakeholders to further assess vulnerability and adaptatio to the impacts of climate change, including climate variability risks and extreme events, in priority systems at the regiona national and local level.



• Outputs

- Assessment of vulnerability to current climate variations for priority systems in each country;
- Assessment of vulnerability to future climate for a priority system in each country;
- Improved knowledge of current and future vulnerability shared and disseminated widely.













Immediate Objectives and Outputs

Immediate Objective 2

 To strengthen systemic, institutional and individual capaci of stakeholders to develop strategies and to impleme policies and measures to prepare for adaptation at the regional, national and local level.

Outputs

- Adaptation strategy identified, with innovative policies and measure evaluated and prioritized for each priority system;
- National plans with recommendations to incorporate adaptation into development. Improved knowledge of current and future vulnerability shared and disseminated widely;
- Improved knowledge of national plan for adaptation shared and disseminated widely.



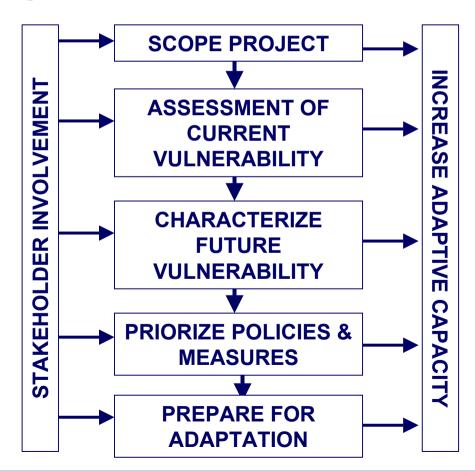


Project Implementation Strategy



















Project Implementation Strategy

APF Technical Resources

- APF project scope and design;
- Stakeholder identification and engagement;
- Vulnerability assessment for climate adaptation;
- Assessing current climate risks;
- Assessing future climate risks;
- Socio-economic conditions and prospects;
- Measuring and enhancing adaptive capacity;
- Formulation of an adaptation strategy;
- Reviewing, monitoring and evaluating adaptation.





México

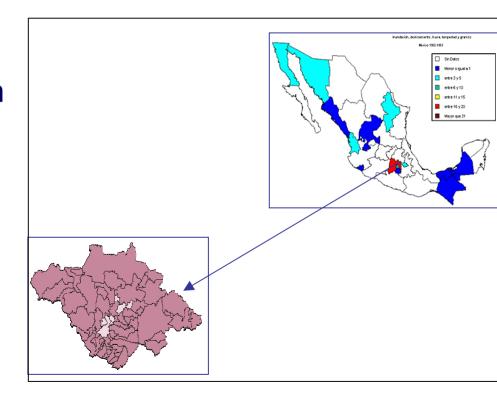








Vulnerability to
Climate Change in
the Water,
Agriculture, and
Forest Systems in
Tlaxcala







Cuba



AREA INICIAL

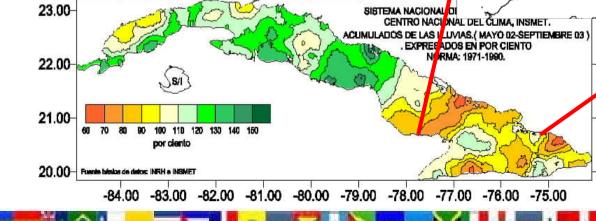


Capacity Building to respond to drought risks in Las Tunas Province, Cuba.

Coordinator: Abel Centella, Cuba











Guatemala







Vulnerability of the Agriculture and Health Systems to climate change using the water systems as driver in the San Jose and Naranjo Watersheds



Coordinator: Carlos Mansilla

GEF







Honduras





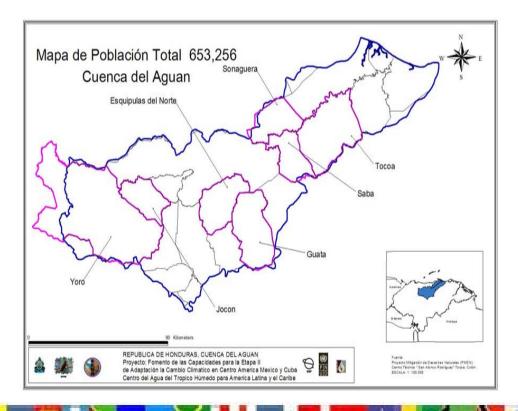


Vulnerability of the Agriculture and Health Systems to climate variability and change in the Upper and Mid Rio Aguan Watershed





GEF







El Salvador









Climate
Vulnerability of
the Livelihood
Strategies in the
Bajo Lempa









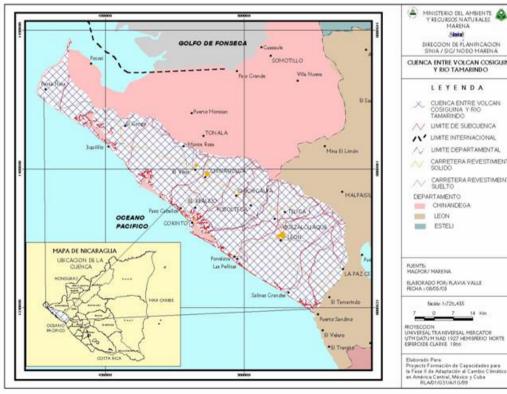








Vulnerability of the Water and Agricultura Systems of Watershed No. 64 in the the Pacific of Nicaragua









Costa Rica



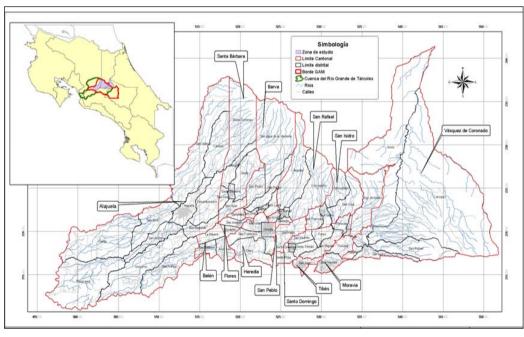






Vulnerability of the Water System of the North Western zone of the Costa Rican Central Valley

Coordinator: Roberto Villalobos









Panama



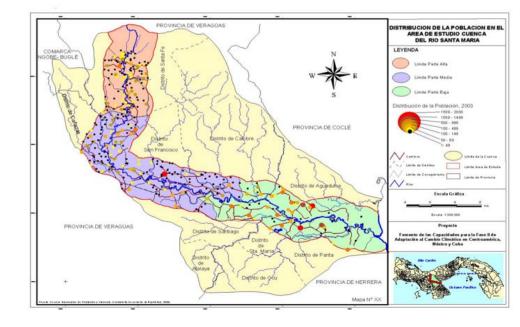






Adaptation to Climate Change in the Upper, Mid, and Lower Santa Maria River Coordinator: Rene

Lopez



omento de las Capacidades para la Etapa II de Adaptación al Cambio Climático en Centroamérica, México y Cul





Un Sistema Regional de Apoyo a las Decisiones de Siglo XXI





















SERVIR's Political Background

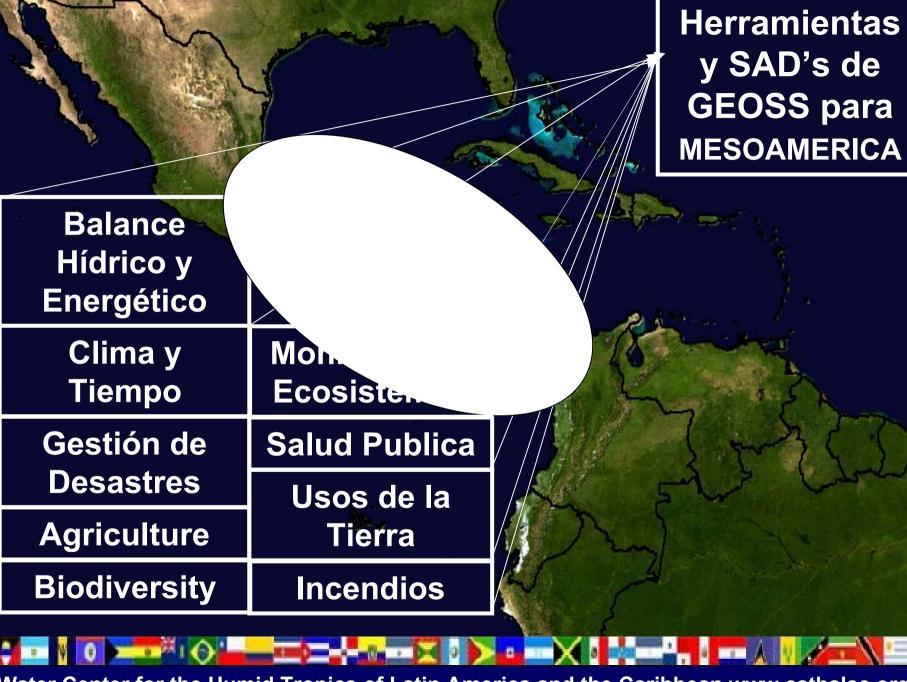
- The Presidents of Costa Rica, El Salvador, Guatemala, Honduras, Nicaragua, Panama, and the USA, and the Prime Minister of Belize, met at San Salvador on March 24, 2002 to announce the continuation and expansion of the Joint Central America-United States Declaration (CONCAUSA)
- The CONCAUSA Plan of Action includes:
 - To strengthen Central America's ability to prevent and manage disasters;
 - To strengthen the Central American countries' capacity to adapt to climate change and to mitigate greenhouse gas emissions;
 - To achieve greater harmonization of environmental legislation, enforcement and compliance.....
 - To attain adequate levels of biodiversity conservation by consolidating the land and maritime components of the Middle American Biological Corridor......





Inauguración de SERVIR (03/02/05)









Infraestructura de SERVIR

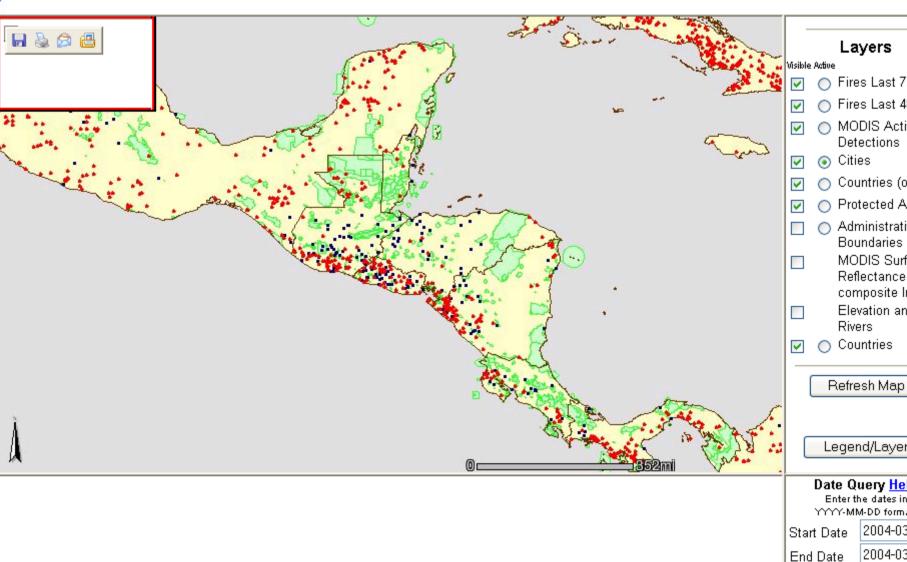
@ NASA/MSFC



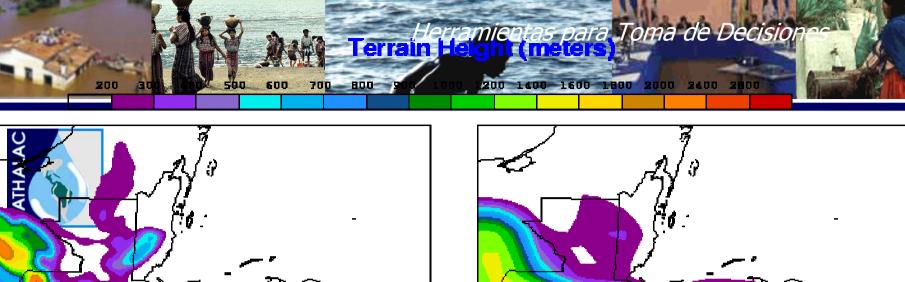


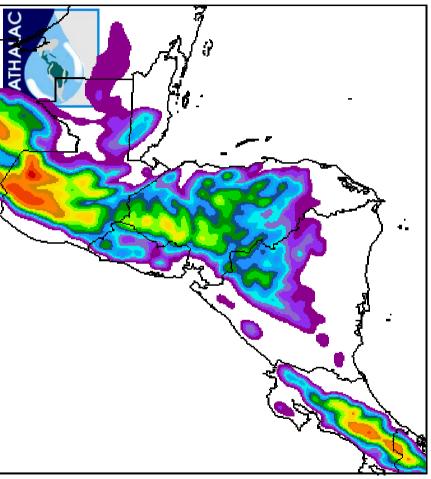


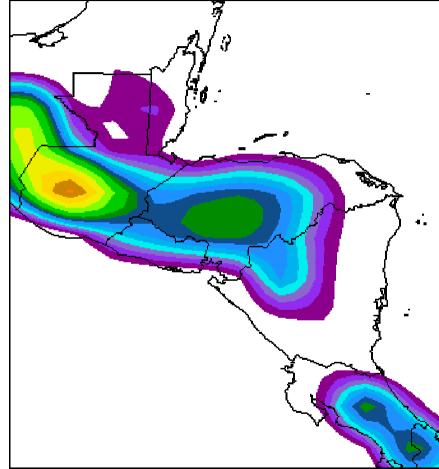
Web Fire Maps: CENTRAL AMERICA



NOTE: MODIS Fire detections are NOT available for the following dates: 6/16/2001 to 7/3/2001, 3/20/2002 to 3/28/2002, 4/15/2002.







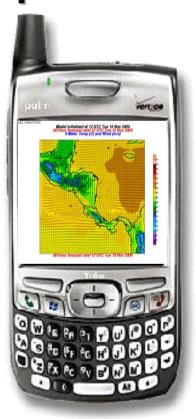
NASA SPORT/SERVIR WRF

NCEP GFS





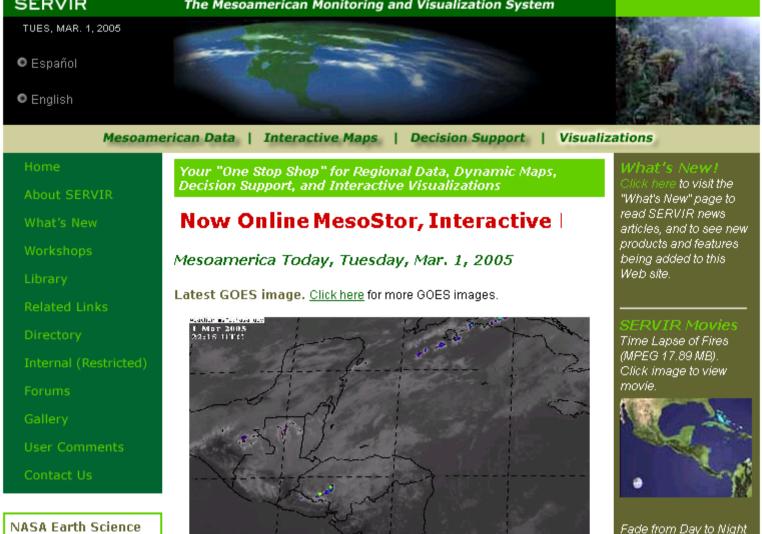
Aplicaciones en Desarrollo











NASA Earth Science
Applications

Fade from Day to Night
(20 KB). Click image to
view movie.







Capacitaciones 2005-2008

- Modelación de Clima y Tiempo Meteorológico
- Evaluación de Impactos, Vulnerabilidad y Adaptación
- Gestión de Desastres
- SOT, SIG
- Planificación Territorial Ambiental
- Programación de Aplicaciones Integrales
- Visualizaciones 3-D
- GIRH/GIZC





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