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

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

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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
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;
- **GEF Funding + Swiss Gov**: 3.2 M USD, (UNFCCC-NAI eligibility for Enabling Activities)
- **Duration**: 3 years
- **Implementing Agency**: UNDP
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.
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 capacity of stakeholders to further assess vulnerability and adaptation to the impacts of climate change, including climate variability, risks and extreme events, in priority systems at the regional, 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 capacity of stakeholders to develop strategies and to implement policies and measures to prepare for adaptation at the regional, national and local level.

- **Outputs**
  - Adaptation strategy identified, with innovative policies and measures 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

STAKEHOLDER INVOLVEMENT

SCOPE PROJECT

ASSESSMENT OF CURRENT VULNERABILITY

CHARACTERIZE FUTURE VULNERABILITY

PRIORITIZE POLICIES & MEASURES

PREPARE FOR ADAPTATION

INCREASE ADAPTIVE CAPACITY
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

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
Honduras

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

Coordinator: Mirza Castro
El Salvador

Climate Vulnerability of the Livelihood Strategies in the Bajo Lempa
Nicaragua

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

Water Center for the Humid Tropics of Latin America and the Caribbean www.cathalac.org
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
Fomento de las Capacidades para la Etapa II de Adaptación al Cambio Climático en Centroamérica, México y Cuba
SERVIR
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)
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<th>Herramientas y SAD’s de GEOSS para MESOAMERICA</th>
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Infraestructura de SERVIR
@ NASA/MSFC

@ CATHALAC

Water Center for the Humid Tropics of Latin America and the Caribbean www.cathalac.org
Herramientas para Toma de Decisiones

Terrain Height (meters)

NASA SPoRT/SERVIR WRF

NCEP GFS

Water Center for the Humid Tropics of Latin America and the Caribbean www.cathalac.org
NASA World Wind

Convective Cloud Mask
01/26/2006 14:15:00 UTC

Water Center for the Humid Tropics of Latin America and the Caribbean www.cathalac.org
Aplicaciones en Desarrollo
Now Online MesoStor, Interactive

Mesoamerica Today, Tuesday, Mar. 1, 2005

Latest GOES image. Click here for more GOES images.

What's New! Click here to visit the "What's New" page to read SERVIR news articles, and to see new products and features being added to this Web site.

SERVIR Movies
Time Lapse of Fires (MPEG 17.89 MB). Click image to view movie.

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