CIIFEN

Centro Internacional para la Investigación del Fenómeno del Niño

MISION

To promote and develop actions to consolidate science-policy interactions an the strengthening of climate and ocean services aiming to contribute on risk management and adaptation to better cope with climate change and variability

VISION

A Research Center that is both versatile and efficient to provide innovative solutions to strengthen institutions, governance, most vulnerable communities, ecosystems and production systems in order to cope with current and emerging challenges imposed by climate and global change.

Administrative ORganization

MAIN ACTIVITIES

Networks related to climate

Network of persons & Institutions related to information and knowledge on climate

Basic and applied research

Improving knowledge on climate system
Applied studies on the impacts of climate variability and climate change vulnerability assessment and proposed climate adaptation.
Hazards and risk assessment and environmental problems associated hydro

Climate information service

Weather reports and oceanographic climate prediction, oceanographic, hydrological
Regional Climate Center for Western South America

Training and capacity building for countries in the region

Courses for Meteorological and Hydrological Services and other institutions of the countries of Latin America (topics: data processing, data analysis, climate variability, climate change, meteo, hydro and climate risks.

Capacity building in countries of the region

Development and implementation of projects for national institutions in the region

Communication of knowledge and information on weather, water and climate

International Conference.
Scientific publication and popular dissemination publications (booklets, brochures)
Guide on establishing communication systems information and weather warnings.

STRATEGIC PLAN

Basic Research

- Creation of new knowledge about ENSO and its relationship with other modes of climate variability, climate change and global change.
- Networking research on issues associated with ENSO
- Having an active program of basic research on climate and climate-society relationship

Applied Research

- Production of knowledge about the impacts of climate variability and climate change in different sectors and regions.
- Incorporating the knowledge gained from basic and applied research in industry practices through climate information services.
- Strengthening cooperation with sectoral and regional institutions for applied research and knowledge application.

Dissemination of knowledge and incorporation of knowledge in society

Climate Information Services

- Regional Center South West Climate

International visibility

Capacity Building

ACTIVITIES

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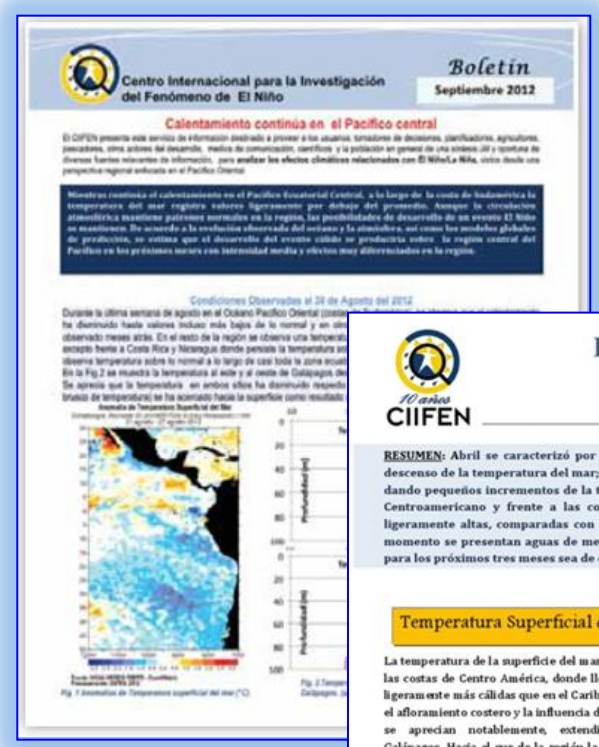
International Research Center on El Niño

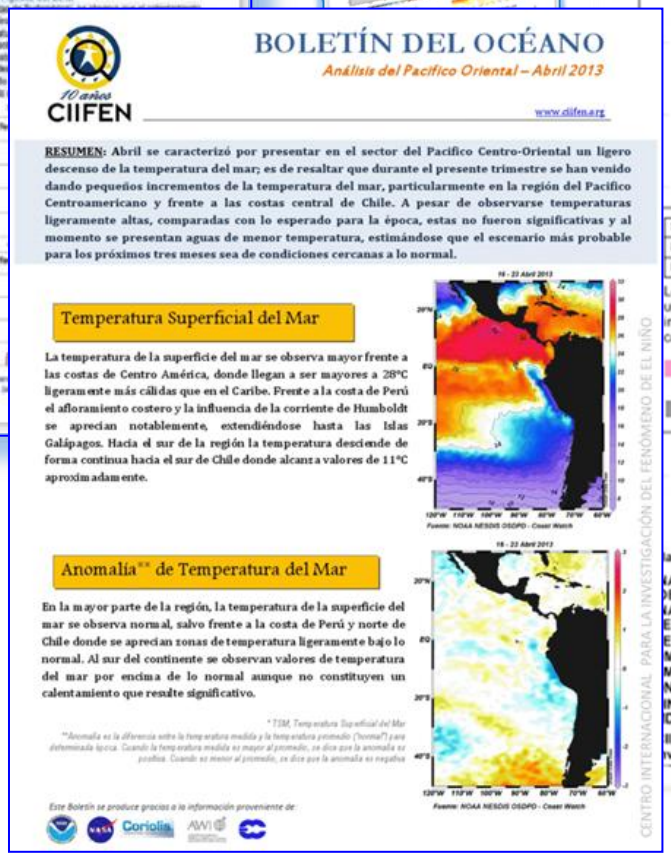
CLIMATE AND OCEAN INFORMATION SERVICES


Centro Internacional para la Investigación del Fenómeno de El Niño

Boletín

Septiembre 2012

Calentamiento continúa en el Pacífico central


BOLETÍN DEL OCÉANO

Análisis del Pacífico Oriental – Abril 2013

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RESUMEN: Abril se caracterizó por presentar en el sector del Pacífico Centro-Oriental un ligero descenso de la temperatura del mar; es de resaltar que durante el presente trimestre se han venido dando pequeños incrementos de la temperatura del mar, particularmente en la región del Pacífico Centroamericano y frente a las costas central de Chile. A pesar de observarse temperaturas ligeramente altas, comparadas con lo esperado para la época, estas no fueron significativas y al momento se presentan aguas de menor temperatura, estimándose que el escenario más probable para los próximos tres meses sea de condiciones cercanas a lo normal.

Temperatura Superficial del Mar

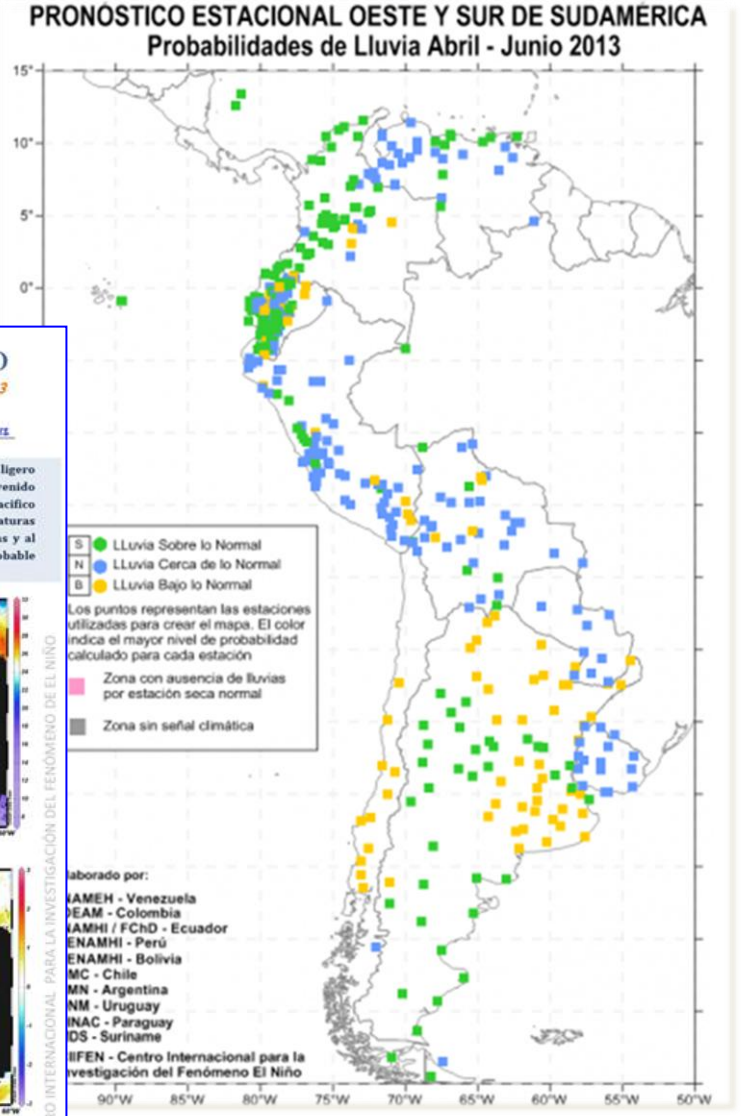
La temperatura de la superficie del mar se observa mayor frente a las costas de Centro América, donde llegan a ser mayores a 28°C ligeramente más cálidas que en el Caribe. Frente a la costa de Perú el afloramiento costero y la influencia de la corriente de Humboldt se aprecian notablemente, extendiéndose hasta las Islas Galápagos. Hacia el sur de la región la temperatura desciende de forma continua hacia el sur de Chile donde alcanza valores de 11°C aproximadamente.

Anomalía** de Temperatura del Mar

En la mayor parte de la región, la temperatura de la superficie del mar se observa normal, salvo frente a la costa de Perú y norte de Chile donde se aprecian zonas de temperatura ligeramente bajo lo normal. Al sur del continente se observan valores de temperatura del mar por encima de lo normal aunque no constituyen un calentamiento que resulte significativo.

Este Boletín se produce gracias a la información proveniente de:

CENTRO INTERNACIONAL PARA LA INVESTIGACIÓN DEL FENÓMENO DE EL NIÑO



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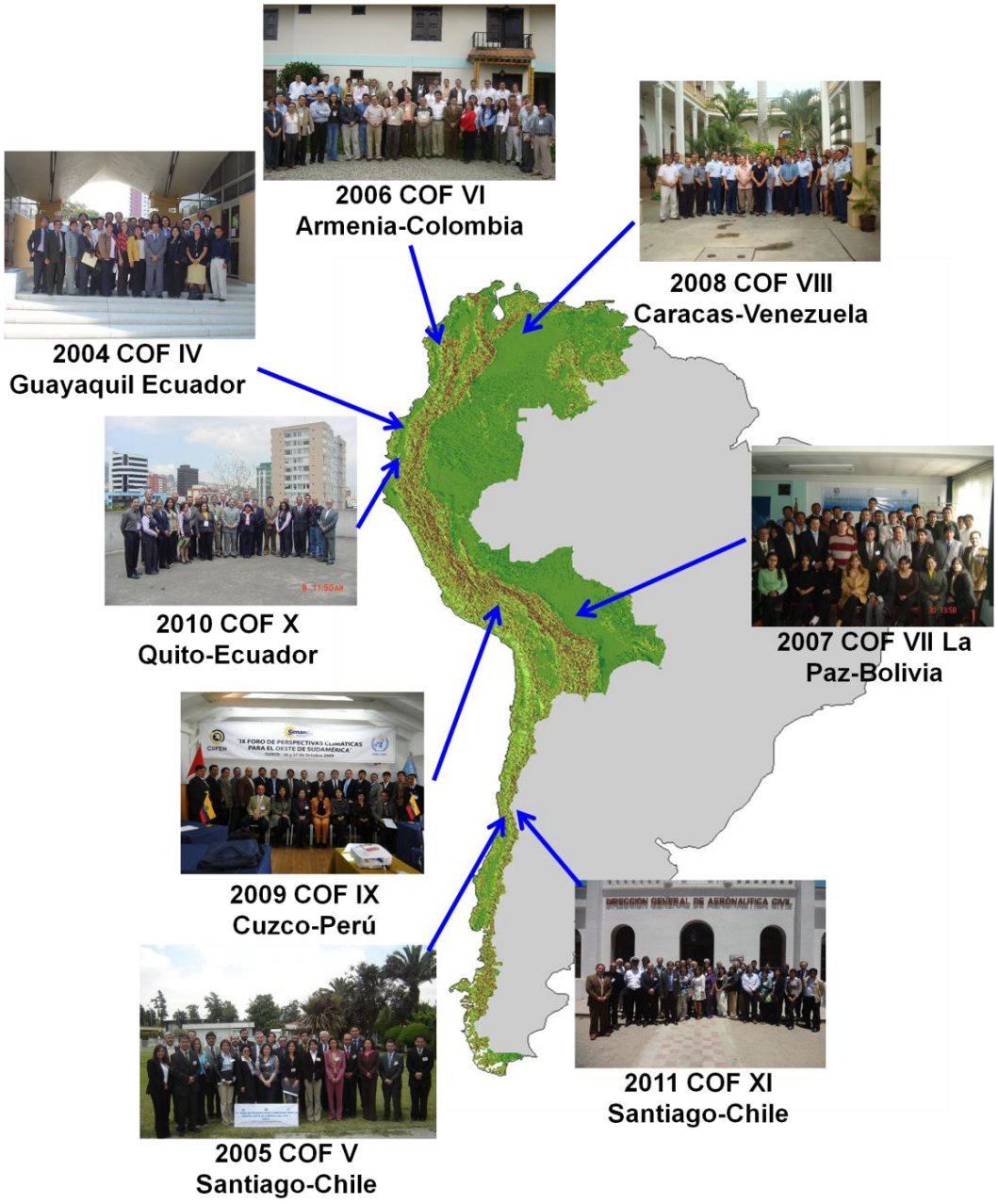
SEASONAL CLIMATE PREDICTION FORUM



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World Meteorological Organization

Centro Regional del Clima para el Oeste de Sudamérica

FASE DE DEMOSTRACIÓN

IDEAM · INAMHI · Senamhi · INAMEH · CIIFEN

Inicio | Pronósticos a Largo Plazo | Monitoreo del Clima | Servicio de Datos Operacionales | Entrenamiento en el uso de Productos y Servicios del CRC | Investigación y Desarrollo

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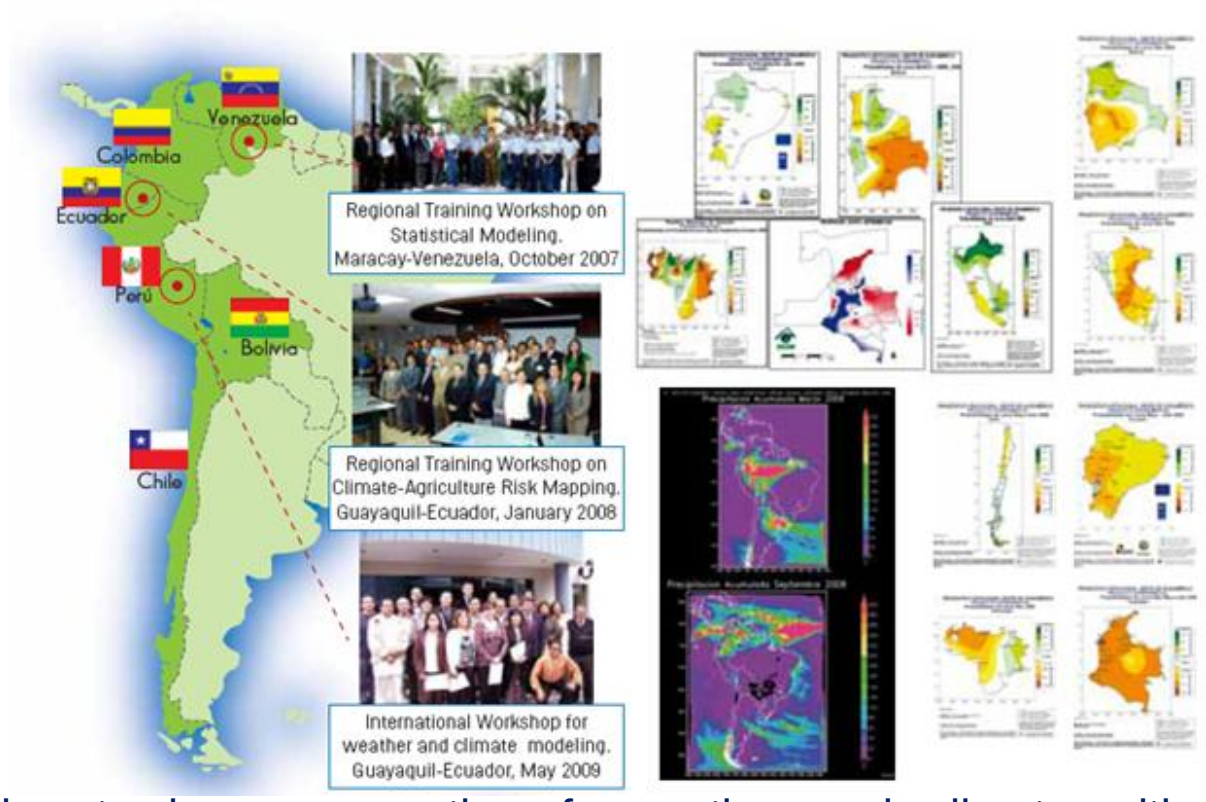
CAPACITY BUILDING IN THE REGION



- Training to improve weather forecasting and climate with courses on statistical and numerical modeling on rescue, processing and quality control of data, generation of hydroclimate indices for different applications and on seasonal forecast.
- Capacity building for developing database tools, processing, analysis and visualization.
- Training and virtual (online courses)

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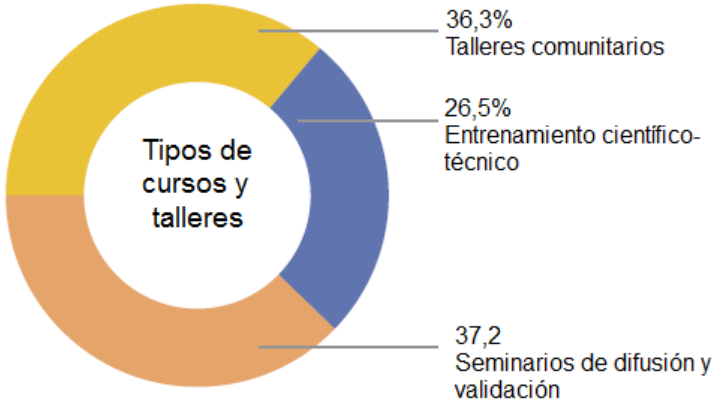
CAPACITY BUILDING



In the period 2003-2012 CIIFEN has been organized, coordinated and conducted nearly 100 training events (seminars, workshops, courses)

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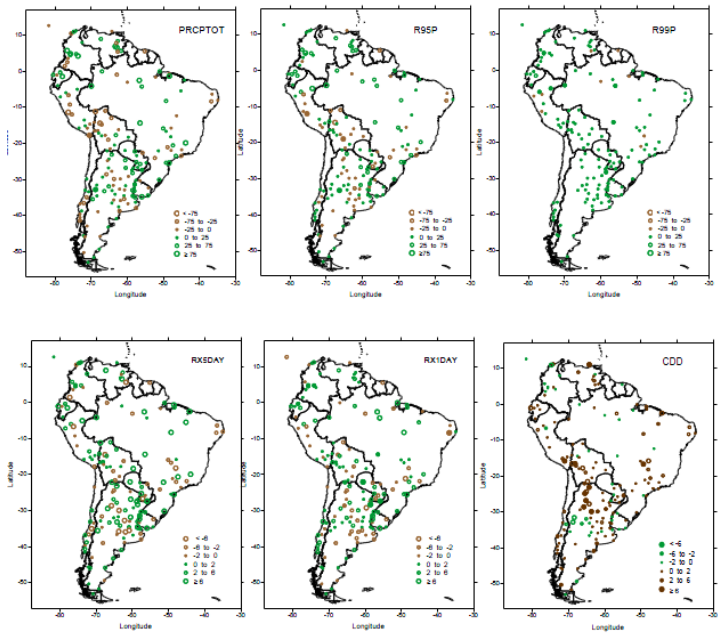
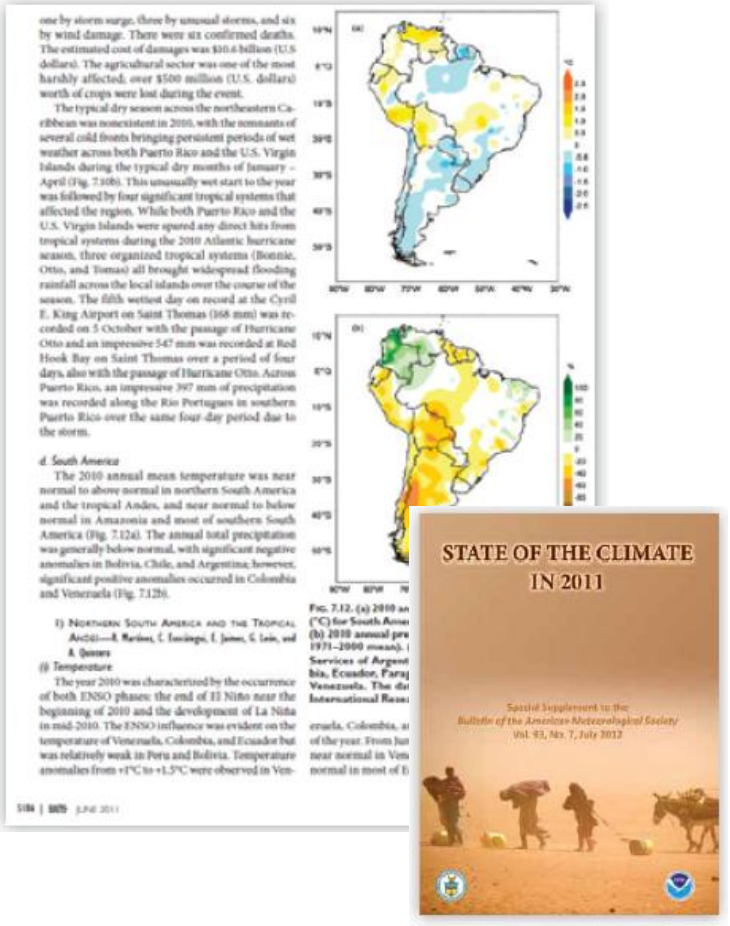
SCIENTIFIC ACTIVITIES



Warming and wetting signals emerging from analysisof changes in climate extreme indices over South America

María de los Milagros Skansi [1], Manola Brunet[2, 3], Javier Sigró[2], Enric Aguilar[2], Juan Andrés Arevalo Groening[4], Oscar J. Bentancur[5], Yaruska Rosa Castellón Geier[6], Ruth Leonor Correa Amaya[7], Homero Jácome[8], Andrea Malheiros Ramos[9, 10], Clara Oria Rojas[11], Alejandro Max Pasten[12], Sukarni Sallons Mitro[13], Claudia Villaroel Jiménez[14], Rodney Martínez[15], Lisa V. Alexander[16], and P.D. Jones[3, 17]



- Analysis of hydrometeorological and climatic processes, climate variability and climate change
- Promotion of networking of researchers from the region and integration of the scientific capabilities of NMHSs to the process of knowledge production.
- Visibility of the regional scientific community worldwide

International Research Center on El Niño

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APLYING KNOWLEDGE

AGRO CLIMATE RISK MAPS IN DESIGNATED AREAS IN THE ANDEAN COUNTRIES.

CONTRIBUTION TO THE ANDEAN ATLAS ON TERRITORY DYNAMICS

ATLAS

COMUNIDAD ANDINA

In 2009, CIIFEN contributed to a regional initiative conducted by the Andean Community regarding the spatial analysis of climate related hazards in the region. to the It contains climate risks mapping at subregional level. The Atlas is available online. CIIFEN's contribution was specifically related to data analysis and mapping of zones exposed to frost, drought, floods, and local effects by El Niño / La Niña.

AN INTEGRAL APPROACH CASE: COPING TO CLIMATE CHANGE IN THE COASTAL CORDILLERA OF ECUADOR

Ministerio del Ambiente — The Nature Conservancy, Protecting nature. Preserving life.

Since February, 2011, CIIFEN is implementing this project with the support of the Ministry of Environment of Ecuador, The Nature Conservancy (TNC) and the Provincial Governments of Guayas, Manabí, and Santa Elena. It is funded by the European Commission. and aims to support the development and implementation of an integrated response to the impacts of climate change in the Coastal Cordillera of Ecuador. This includes a climate vuln tion with local authorit ment of local adaptatio

UNDERSTANDING CLIMATE VULNERABILITY AND IMPACTS ON THE AGRICULTURE SECTOR IN THE ECUADORIAN ANDEAN REGION AND WATERSHEDS OF CHONE AND PORTOVIEJO

he project "Adapta- on to Climate Change hrough effective Water overnance in Ecuador PACC" is implemented y the Ministry of Envi- or's vulnerability to cli- management of water Environmental Facility r. The project is imple- ent of Ecuador (MAE). a climate-agriculture Change in the Andean Portoviejo in Ecuador.

f climate, social and anges, local consulta-

tion processes and several training workshops for technicians, farmers, and authorities. The final outcome will support decisions of authorities on future adaptation plans in the agriculture sector in Ecuador.

REGIONAL INFORMATION SYSTEM ON CLIMATE CHANGE AND BIODIVERSITY TO SUPPORT PUBLIC POLICIES.

BID — CIIFEN — MMAyA — Ministerio del Ambiente — PERÚ Ministerio del Ambiente

The Ministries of Environment and the Meteorological Services of Bolivia, Ecuador, and Peru in coordination with CIIFEN, started in May, 2012, a project to establish a regional information system on climate change and biodiversity. It is funded by the Inter American Development Bank. The main purpose of this regional initative is to contribute on the formulation of public policies to foster effective conservation and adaptation in the participant countries. The project will perform vulnerability assessments in Andean ecosystems and integrate the most relevant climate and biodiversity information to support decisions, plans, and adaptation policies at national level.

First coordination meeting, May 2012
Guayaquil-Ecuador

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