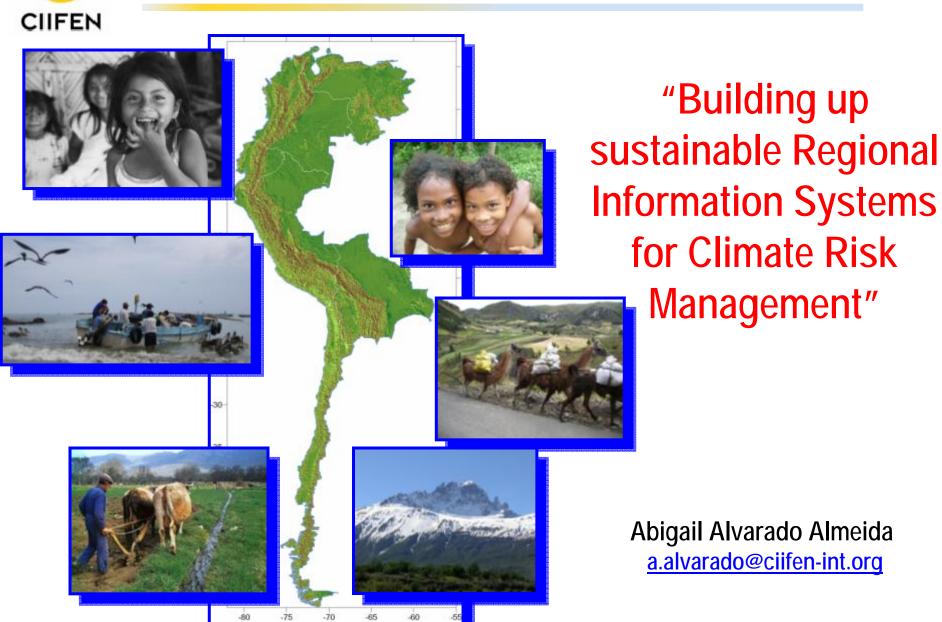
CIIFEN

International Research Centre on El Niño

Sasakawa Mention of Merit 2009





Sasakawa Mention of Merit 2009

CLIMATE
HYSTORICAL
ANALYSISCLIMATE
FORECAST

"A Regional Climate early Warning System..."

Climate Variability Subseasonal (MJO) Seasonal Interannual (ENSO) Decadal

CLIMATE EARLY WARNING

> SECTORAL CLIMATE RISK MAPS

OPTIMIZE INFORMATION SYSTEMS

Communicate to end user is the "last mile" to build up a real people Centered Climate EW system.".

GENERATE GOVERNMENTAL AND LOCAL AUTHORITIES

RESPONSE

Martínez R., 2004

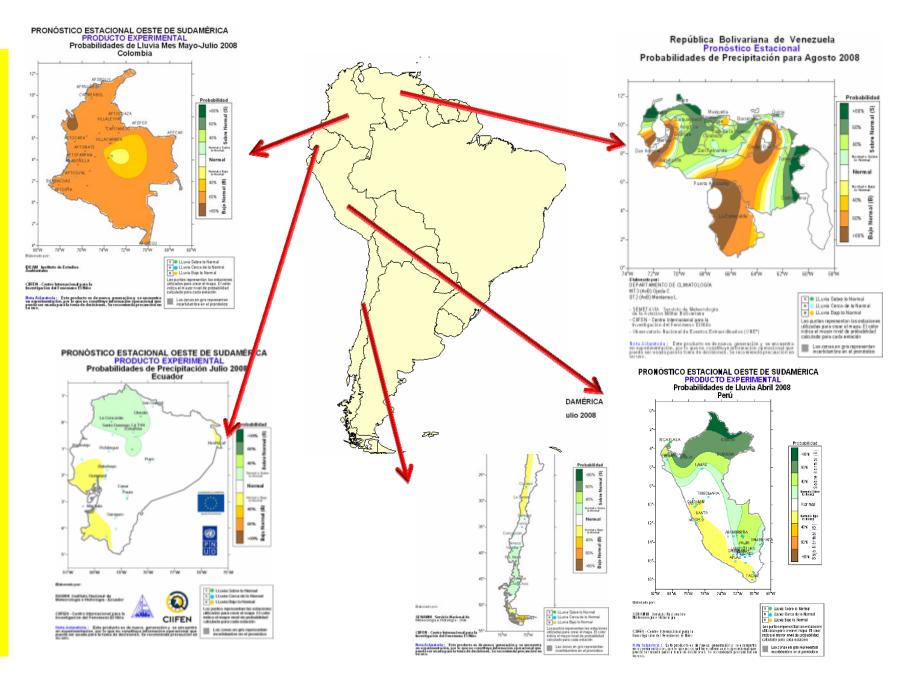


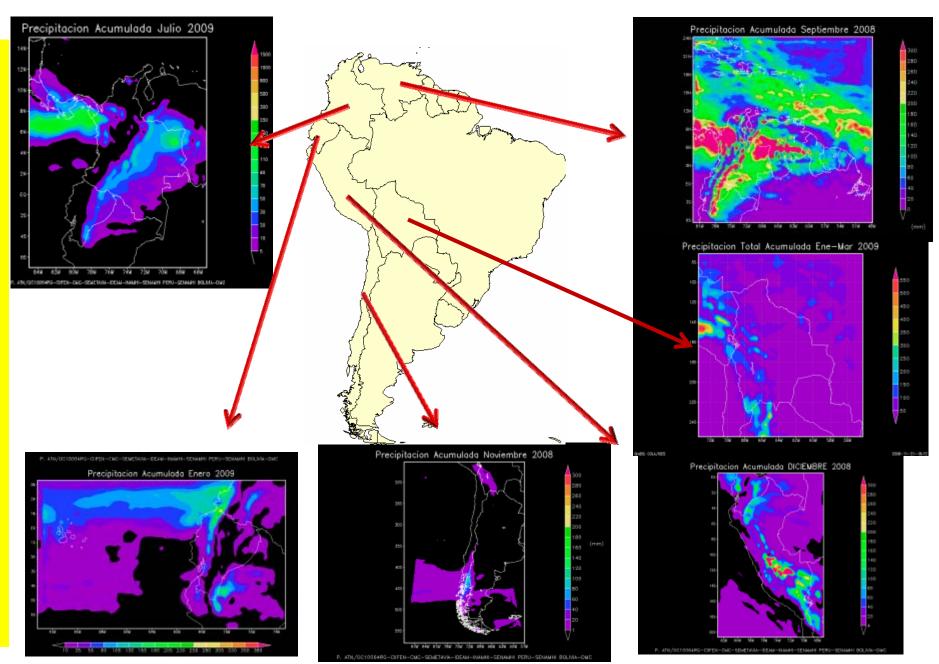
International Center on Centro internacional para la Research "El Niño" pación del Fenómeno de El Niño Base Regional de Datos Climáticos Productos Climáticos Entradas Sudaméric ... © Sudamérica-Anomalía de Precipitación Acumulada Anual Años: (1998) Capas -00% -40% 60% **DEM: European Space**

WCSA Regional Climate Data Base

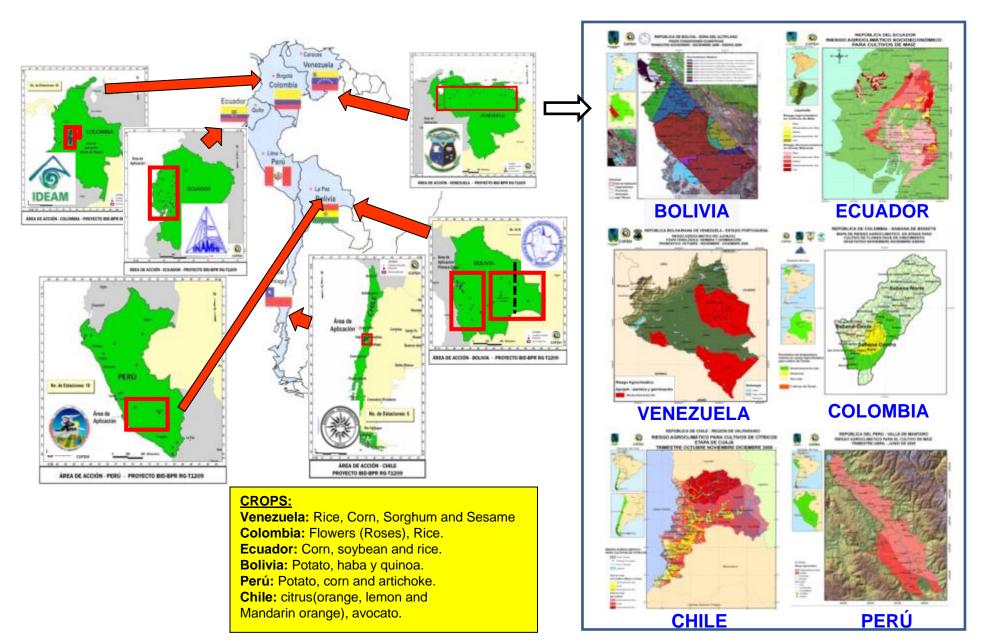
- First Data integration between NMHS from Bolivia, Chile, Colombia, Ecuador, Peru and Venezuela.
- Online data display.
- 4'153.000 records.
- 171 meteorological stations with data from 1960 to 2009.
- Formal Protocol signed by the 6
 NMHS and CIIFEN

http://vac.ciifen-int.org





Climate-Agriculture Risk Mapping System in the Andean Countries

















COF IV held in Guayaquil, Ecuador año 2004



COF VI held in Armenia, Colombia, año 2006



COF VIII held in Caracas. Venezuela, año 2008



Foto del COF VII held in La Paz, Bolivia, año 2007



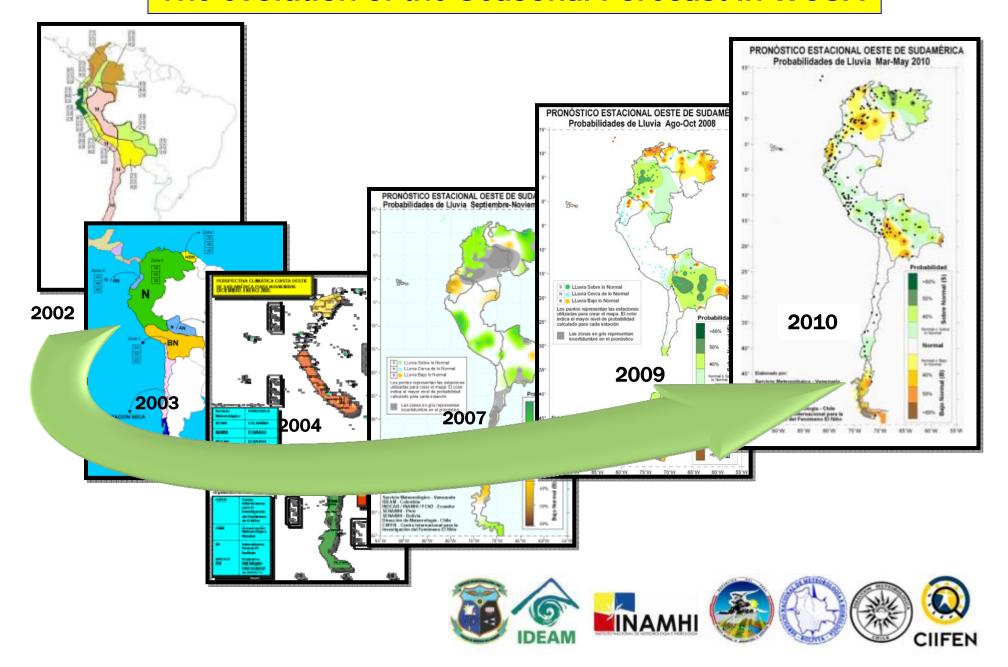


- Opportunity to identify needs in each country.
- Identify the potential benefits of a regional collective action.
- Identify key partners.
- Opportunity to review and coordinate further actions.



COF V held on Santiago de Chile, año 2005

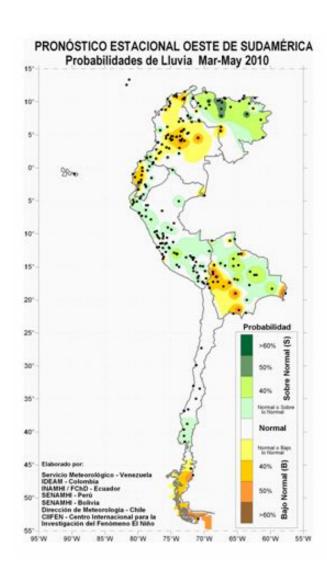
The evolution of the Seasonal Forecast in WCSA

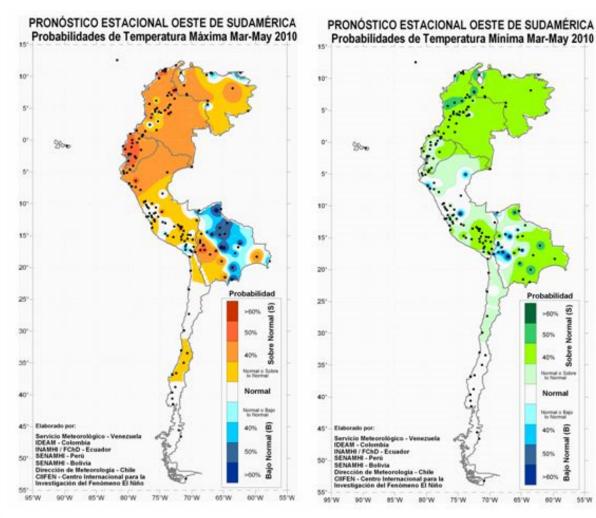




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SEASONAL FORECAST WESTERN SOUTH AMERICA





REGIONAL TRAINING ON STATISTICAL DOWNSCALING

BOLIVIA PERU











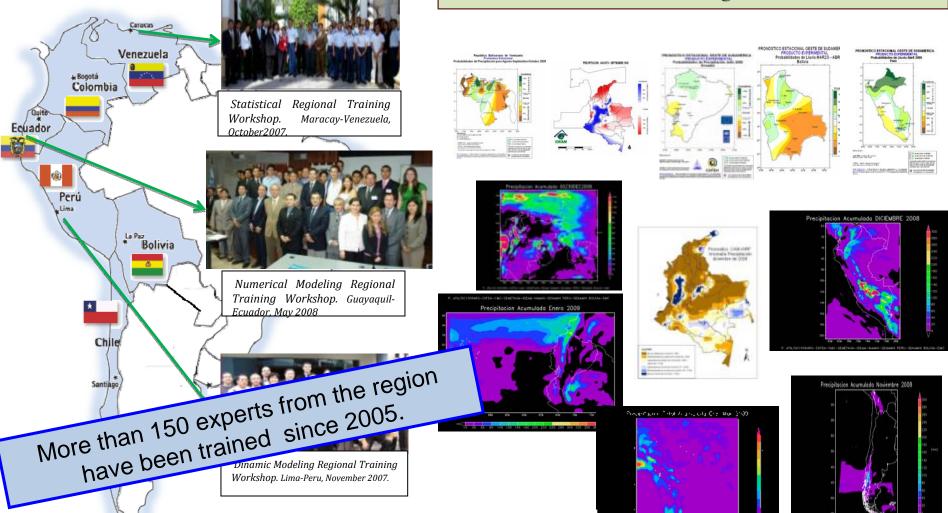
REGIONAL TRAINING ON DYNAMICAL DOWNSCALING

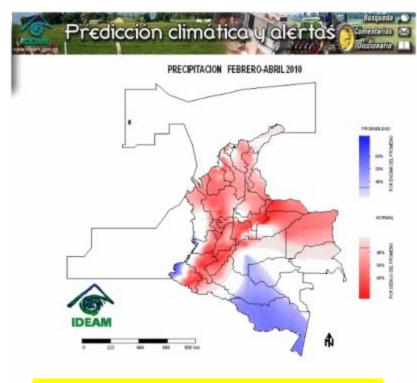


Improving Climate Modeling capacities in

Regional Training Workshops

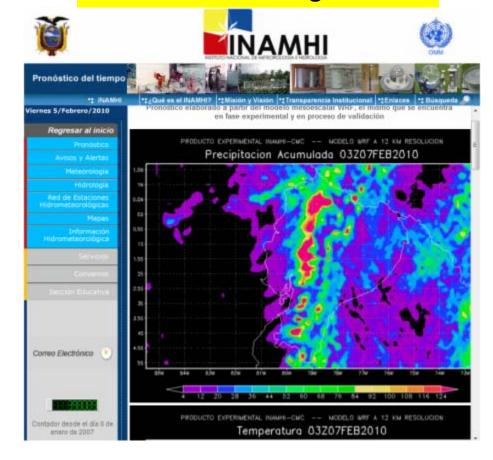
Implementation of Statistical and Dinamic
Models for Climate Prediction at NMHSs in the
WCSA Region





Seasonal Forecast Colombia

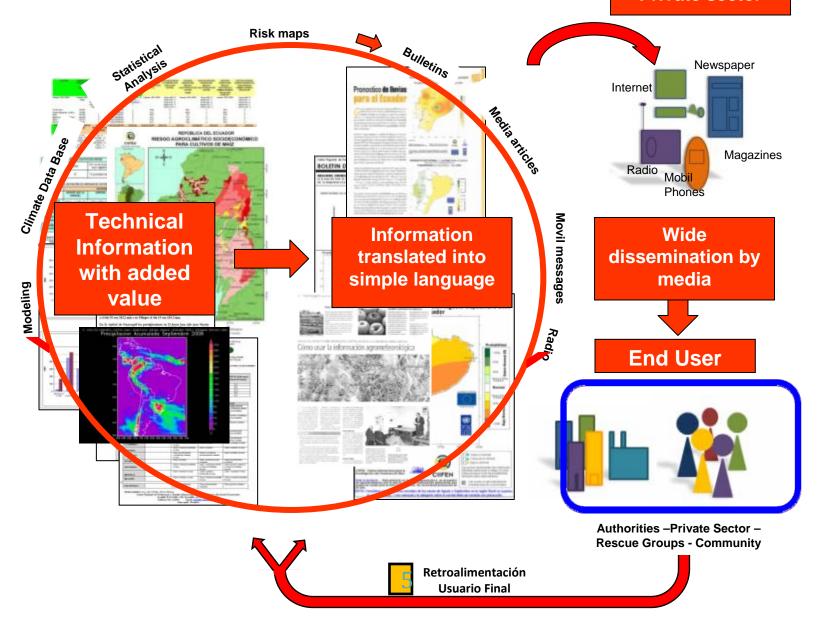
Numerical modeling Ecuador





Climate Information system in the Andean countries

Involving Private sector





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Improving the Climate information Chain (1)

Information Flow with the media



Including private sector

Alliances Signed with Key **Stakeholders**

Private Sector





Mobil Phone Company







Ecuador: Los Ríos mar08



Venezuela: Maracay sept/08





Bolivia: El Alto dic08

Perú, aug./08



Improving the Climate information Chain (2)



Alliance with Telefónica MOVISTAR

MOVISTAR and MESSAGE PLUS, agreed to assign free messages to a group of 1000 users previously identified in areas prone to flooding.

Installation of HF Radio Equipment for alternate emergency communications

ESMERALDAS

CHONE

MACHALA

Installation of radio equipment for 10 locations of intervention area in Ecuador. Divided between the offices of INAMHI and COEs





Pachaqamasa radio (El Alto, Bolivia) enterview about climate information use in Aymará native language





INAMHI inform: intense precipitation over central zone of Manabí for the next 6 hours. **WARNING.**

Use of Climate Risk Maps Training Workshops. Ministry of Litoral-Ecuador



Applied to: Agriculture, Health, Education, Building, Human settlements and Biodiversity.

NMS is working on translation and bulletins shipping with Forecast in Aymará through Pachaqamasa radio (Bolivia)



Learning from local users to tailor climate products

Using Knowlegment of innovation and education to build a culture of safety and resilience at all levels.



Perú: Huancayo dec 2008



Training on
Climate Risk
Management
at community
level



Venezuela: Maracay, nov/2008



process for Climate Disaster Prevention.

Participative

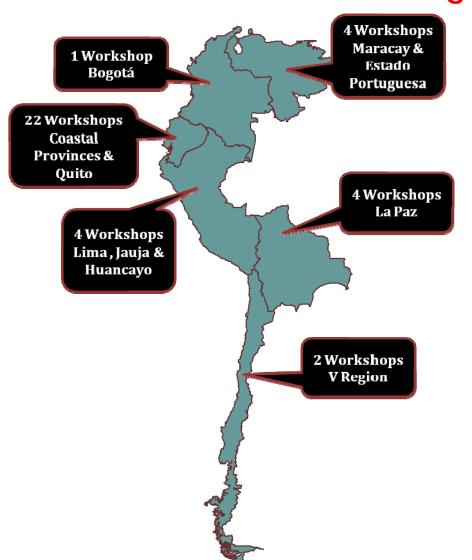


Bolivia: La Paz, nov/2008



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Working with users



More than 36 local workshops have been done in Venezuela, Colombia, Ecuador, Perú, Bolivia and Chile

COUNTRY	TRAINED PEOPLE
Bolivia	216
Chile	97
Colombia	45
Ecuador	565
Peru	231
Venezuela	85
Tota	l 1.239



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PERÚ

- Ministerio del Ambiente
- · Radio Programas Perú RPP
- Municipalidad Distrital de Acolla
- Semanario Enfocando La Semana
- Sin Pelos en la Pluma
- Tierra Fecunda
- Municipalidad Distrital de Tunan Marca
- Universidad Nacional de Huancavilca
- · Municipalidad Provincial de Jauja
- Dirección Regional de Agricultura de Junín

CHILE

- · Radio Emisora Nexo Am y Libra FM
- Asociación de Agricultores de Quilotoa
- Comité de Paltas
- El Mercurio de Valparaíso
- Municipalidad de Quilotoa
- · Empresa Periodística El Observador
- Secretaría Ministerial de Agricultura de la Región de Valparaíso
- Facultad de Agronomía de la Pontificia Universidad Católica de Valparaiso
- Fundación de Comunicaciones,
 Capacitación y Cultura El Agro (FUDCA)

BOLIVIA

- · Prefectura del Departamento de La Paz
- El Diario S. A.

VENEZUELA

- Empresa Agroisleña
- Asociación de Productores de Semilla Certificada de los Llanos Occidentales (APROSELLO)
- Asociación de Productores del Estado de Portuguesa (ASOPORTUGUESA)

ECUADOR

- Editorial UMINASA
- Coordinadora de Radio Popular y Educativa del Ecuador (CORAPE)
- Coorporación de Desarrollo Regional de El Oro (CODELORO)
- Grupo Corporativo Agroindustrial (AGRIPAC)
- Corporación Nacional de Agricultores y Sectores Afines (CONASA)
- MOVISTAR, MESSAGE PLUS
- · Municipalidad de Babahoyo
- Diario La Hora de Quevedo
- · Radio Naval-INOCAR y 32 radiodifusoras
- Consejo de Desarrollo del Pueblo Montubio de la Costa (CODEPMOC)





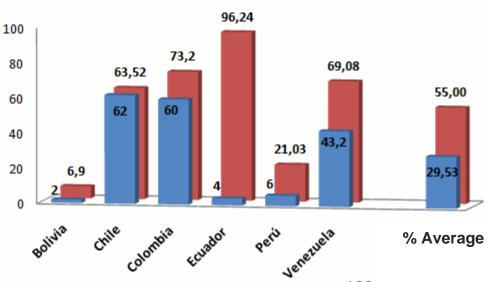
More than 34 alliances with local media, National Agriculture Associations, private sector and local government have been formalized in 5 countries







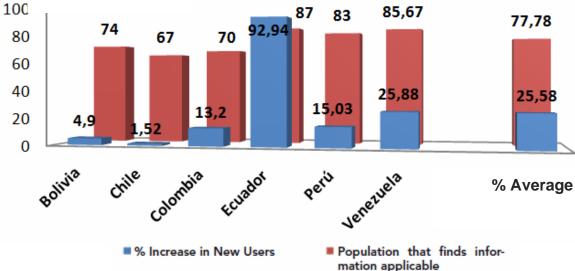
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Targeted communities users have learnt how to apply climate information in the western pacific region.

- % Population with information, beginning of project
- % Population with information, end of project







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REGIÓN COSTA DE LA REPÚBLICA DEL ECUADOR RIESGO CLIMÁTICO AL SECTOR AGRÍCOLA Y SOCIOECONÓMICO DE CULTIVOS DE ARROZ INAMHI ACTUALMENTE EXISTE PRESENCIA DE CULTIVOS DE ASSICIZ EN LAS ZONAS AMARILLAS Y XISTE PRESENCIA DE CULTIVOS DE ARRIOZ EN LAS ZONAS. RUSENCIA DE CULTIVOS DE ARRIOZ EN LAS ZONAS ROJAS. connel para la travelligación del Fandemero de El Niño Cliff(N - Ecuador, Guayaqui, were caten-ne ora, Telefonos. (561) 4 2514770 - (562) 4 2514771

Climate Risk Maps-Chile, Feb-March 2010

Climate Risk Maps-Ecuador, Feb-March 2010



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Learned Lessons

- Working with NMHs throughout the process helped to see the need for aditional efforts to establish protocols for disemination of products and services in consensus with everyone.
- Few consecutive incorrect forecast cause the people to distrust research centers.
- It takes tame to accept changes in practices and behaviour of users due to the use of new technologies.
- a regional climate service can only be enhanced as a result of the improvement of the national components.
- Early Warning Systems should be planned bottom up



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Thanks for your attention !!



www.ciifen-int.org

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Guayaquil, Ecuador.

