



**ANDEX**

# Cross-Cutting Themes of ANDEX

Silvina Solman

CIMA (CONICET-UNIVERSIDAD DE BUENOS AIRES)

Departamento de Ciencias de la Atmósfera y los Océanos (DCAO-FCEN/UBA)

Argentina

# Some ideas on Cross-Cutting issues

- 1) Data (sharing)
- 2) Field experiment(s)
- 3) Modelling
- 4) Human Capacity Building
- 5) Funding Strategies and Possibilities

# 1) Data (sharing)

- Overview of the availability of station data along the Andes range
  - Meteorological data
  - Hydrological data
  - Other types of data (e.g. snow)
- Common methodologies for data quality control
- Data policy for sharing
- Validity of other data sources (satellite, radar)
  - CMORPH, TRMM, PERSIANN, CHIRPS (precipitation, convection)
- Setting up an ANDEX database
- **Identifying data needs**
  - Coordinator?
  - Contributors?

## 2) Field experiment

- Based on data availability inventory, data needs may be identified for understanding specific processes
    - What, Where, Why?
  - Basis for a **Field Experiment** over the Andes
    - Take advantage of RELAMPAGO on going Field Experiment
  - Radiosoundings and surface measurements along the Andes- transects?
- 
- Coordinator?
  - Contributors?

# 3) Modelling

- Identify a modelling strategy for
    - Weather and climate studies (climate prediction and climate change)
    - Hydrological modelling
    - Others?
  - Convective permitting simulations (1 to 4 km resolution)
    - Specific simulations coordinated among modelling groups within ANDEX
    - Domains?
    - CORDEX FPS
  - Regional Reanalysis along the Andes
  - **Coordinated approach**
- 
- Coordinator?
  - Contributors?

## 4) Human Capacity Building

- Identify potential topics for Training Workshops
  - Specific phenomena
  - Tools:
    - statistical methods of analysis/forecasting
    - Modelling
- Identify potential support for the Training Activities (IAI?, ICSU?, WCRP?)
  - Coordinator?
  - Contributors?

# 5) Funding Strategies and Possibilities

- Different levels of support:
  - National
    - National Agencies
  - Regional
    - IAI? NSF? Others?
  - Others
    - European Comission through strategic consorsium?
- **Corrdinated approach**
  - **Coordinator?**
  - **Contributors?**