

Annex B (continue)

Development of a collaborative Research Network for the study of Regional Climate Variability and Changes, their Prediction and Impact, in the MERCOSUR Area.

IAI CRN-055 Annual Work Plan for the first year

PI: Professor Mario N. Nuñez

1- Participating institutions and key personnel

See main part of the Report

List of PROSUR graduate students and collaborators:

ARGENTINA: Penalba, Rusticucci, Cerne (s), Campetella (s), Possía, Bischoff, Bejarán (s), Muller (s), Camilloni, Fernandez, Salio (s), Saulo, Antico (s), Doyle (s), Silvani (s), Solman, Menendez, Gonzalez, Ulke

BRAZIL: Santana (s), Pscheidt (s), Olsen (s), Cardoso (s), Ferraz (s), Castro (s), Marton, Barbosa (s), Seluchi, Hallak (s), Castillo (s), Moreira (s), Camargo (s), Della Justina (s), Chou, Renom (s), Souza (s), Dolif (s), Cohelo (s) and Drumond (S).

PARAGUAY: Pastén (s), Vázquez (s), Armoa (s), Barrios (s), Rojas (s), Baez (s).

USA: Paek (s), Ray

Note: In brackets "s" means graduate student

2- Objectives

a) For the Project

- ***The role of large-scale sea surface temperature variations in determining climate variability in southeast south America.***
- ***To study the tropical-extratropical interactions related to the circulation and precipitation variability over the MERCOSUR area.***
- ***Impacts of climate variability on sectors of social and economic importance in the MERCOSUR region.***

Capacity Building: the network will make a significant contribution to the capacity building in the region by training Ph.D. Students, who will contribute to the development of policy in issues of Climate variability and change, and prediction of climate.

An enhancement of the smaller groups will be promoted

Application Component: the CRN will intent to bridge the gap between the science results generated by the program and the information needs of decision and policy makers providing mechanisms to transform research results into information designed to address specific problems.

b) For the year

- **Studies of extreme precipitation and temperature events.**

Climatology of extreme events.

Daily extremes:

Precipitation

Temperature

Monthly and seasonal extremes:

Precipitation

Dynamics related to the frequency of extreme rainfall events

- **Studies for improvements of regional seasonal predictions**

Mechanisms of climate variability and impact on interannual scales

Remote Processes:

Regional and local processes: (Diurnal cycle, Topographic influences, Land surface/neighborhood seas - atmospheric interactions, LLJ, MCS)

Assessments of operational climate model performance

- **Establishing of Pilot Project on applications**
- **Academics interchanges. To start with the actions toward the enhancement of the regional capacity building.**

3- Budget summary

See UBATEC Financial Report for the year 2000

4- Description of Tasks and Deliverables

To achieve the annual objectives of the project, we planed and fulfilled the following tasks:

- Santiago, Chile, preliminary CoPIs meeting. This meeting was arranged to plan the first year actions as an objective (first week of April).
- Latin American scientists visit Latin American labs. To start with multinational cooperation to achieve Project Objectives (C. Nobre, J. Marengo, J. Tomasella and M. Caffera to CIMA, Argentina. V. Barros to University of Paraná).
- Latin American scientists visit American labs. To start with multinational cooperation to achieve Project Objectives (C. Vera to NOAA, USA).

- First CRN - 055 official meeting of CoPIs in Boulder, Colorado, USA. Adjust Work Plan 2000-2002. Working teams to be arranged (second week of July).
- Academic Interchanges: Co-PIs integrated the Supervisory Committee¹ at the University of Sao Paulo of the Doctorate thesis entitled "Oscilações Intrasazonais Associadas à Zona de Convergencia do Atlântico Sul no Sudeste Brasileiro" by Edilson Marton: The dissertation was held at USP Brazil) on September 22.
- PROSUR short-meeting at Sao Paulo (Brazil), to discuss some aspects of the Pilot Project on floods and some results of the PROSUR research activities (in coincidence with the meeting of the Sao Paulo University Supervisory Committee.
- Ph. D. Students interchanges. M. Caffera from University of República, Uruguay, Ph. D. Student at the University of Buenos Aires.

5- Timetable

See Annex.

Note: The timetable has been adapted to the Workshop of Boulder recommendations

¹ Carolina Vera (UBA), Alice Grimm (UFPR), Iracema Cavalcanti (CPTEC/INPE), M. Assunção Silva Dias (USP) and Pedro Silva Dias (USP and Chair of the Supervisory Committee)