



Overview of CLIVAR ICPO

Carlos E. Ereño

ICPO representative for VAMOS

University of Buenos Aires

Argentina



World Climate Research Programme Projects

- **Climate Variability and Predictability (CLIVAR)**
- **Global Water and Energy Experiment (GEWEX)**
- **Stratospheric Processes and Climate (SPARC)**
- **Cryosphere and Climate (CliC)**

- **Carbon Cycle, Water and Food and Fibre Projects (joint with IGBP/IHDP)**

Past projects:

- **Tropical Ocean-Global Atmosphere (TOGA)**
- **World Ocean Circulation Experiment (WOCE)**



World Climate Research Programme

- Objective: to determine to what extent climate can be predicted and the extent of human influence on climate, aiming at the goal of greatly improved understanding of the role of climate in the total earth system
- Acts through its projects to coordinate international research effort on physical aspects of climate
- Links, in particular to the International Geosphere-Biosphere Programme and the International Human Dimensions Programme
- Joint Planning Staff at WMO, Geneva (Director David Carson)
- Joint Scientific Committee (JSC) provides overall direction



CLIVAR objectives (1)

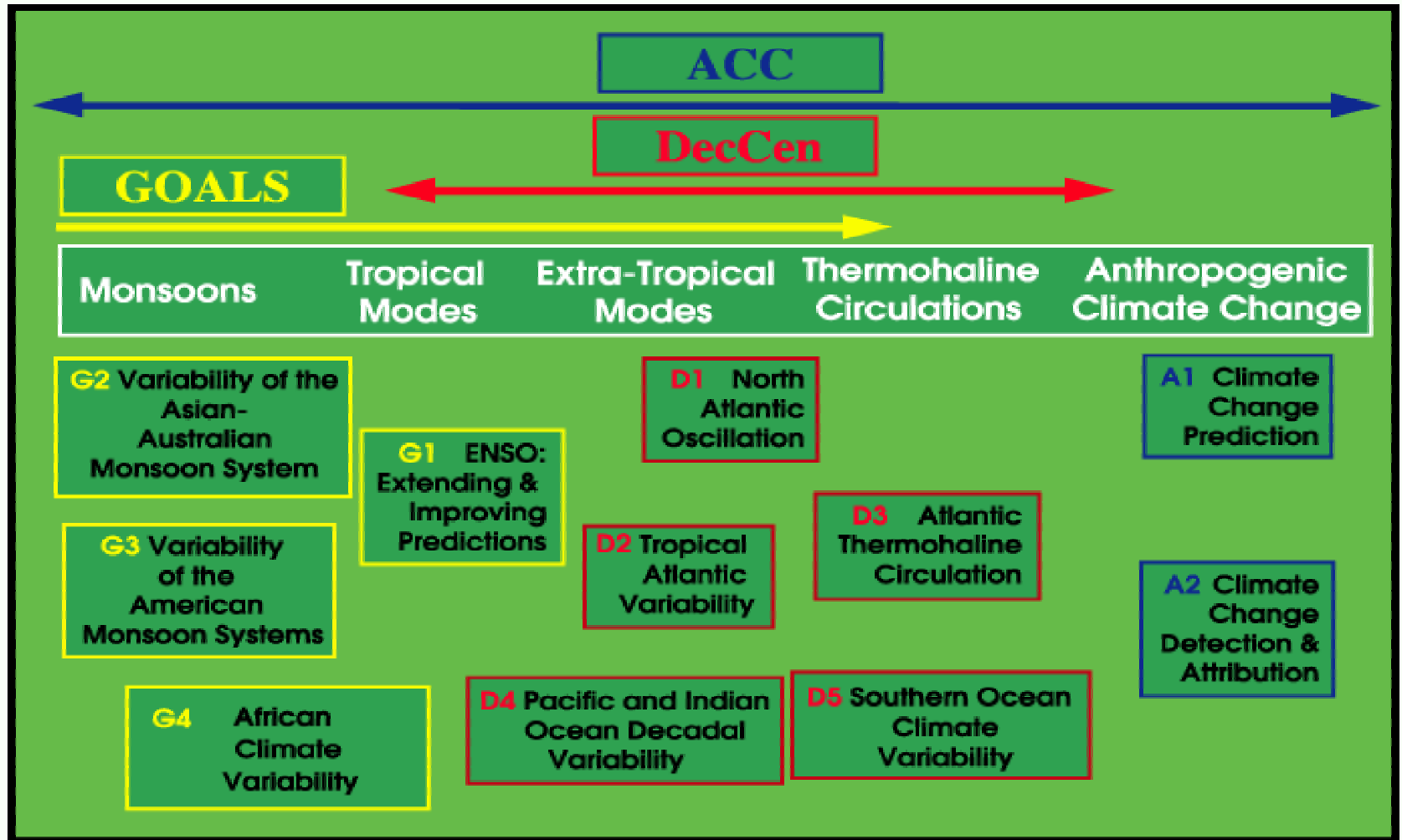
- To describe and understand the physical processes responsible for climate variability and predictability on seasonal, interannual, decadal, and centennial time-scales, through the collection and analysis of observations and the development and application of models of the coupled climate system, in cooperation with other relevant climate-research and observing programmes.
- To extend the record of climate variability over the time-scales of interest through the assembly of quality-controlled paleoclimatic and instrumental data.



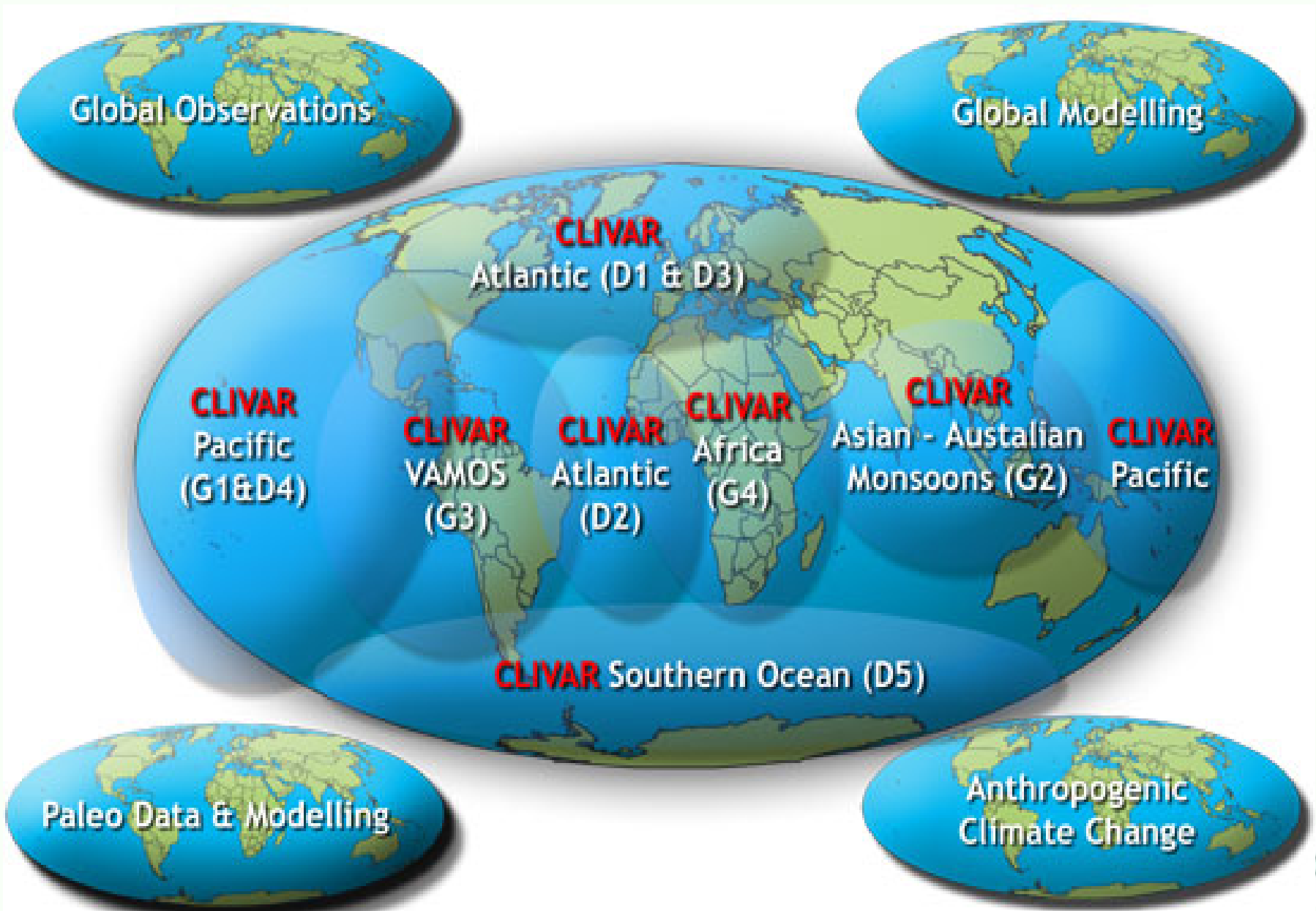
CLIVAR objectives (2)

- To extend the range and accuracy of seasonal to interannual climate prediction through the improvement of global and regional climate models.
- To understand and predict the response of the climate system to changes in atmospheric composition and detect any anthropogenic modification of the climate system.

CLIVAR - Principal Research Areas

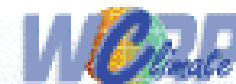


CLIVAR - global view





CLIVAR Organization



Scientific Steering Group

Crosscutting (global) Panels

Observations & Data

CLIVAR Ocean
Observations Panel

PAGES/CLIVAR
Working Group

Data Task
Team

Modelling

Working Group
on Seasonal to
Interannual Prediction

JSC/CLIVAR
Working Group
on Coupled Modelling

WGCM/CLIVAR
Working Group on
Ocean Model Development

Regional or PRA¹ related Panels

Asian-Australian
Monsoon Panel (G2)

Variability of the
American Monsoon
Systems (VAMOS) (G3)

Variability of the African
Climate System Panel (G4)

Atlantic Implementation
Panel (D1-D3)

Pacific Implementation
Panel (G1 & D4)

Southern Ocean
Implementation Panel (D5)

CCI/CLIVAR Expert Team on
Climate Change Detection (A2)

International
CLIVAR
Project
Office

¹ Principal Research Areas

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International CLIVAR Project Office (ICPO)



Functions of the ICPO

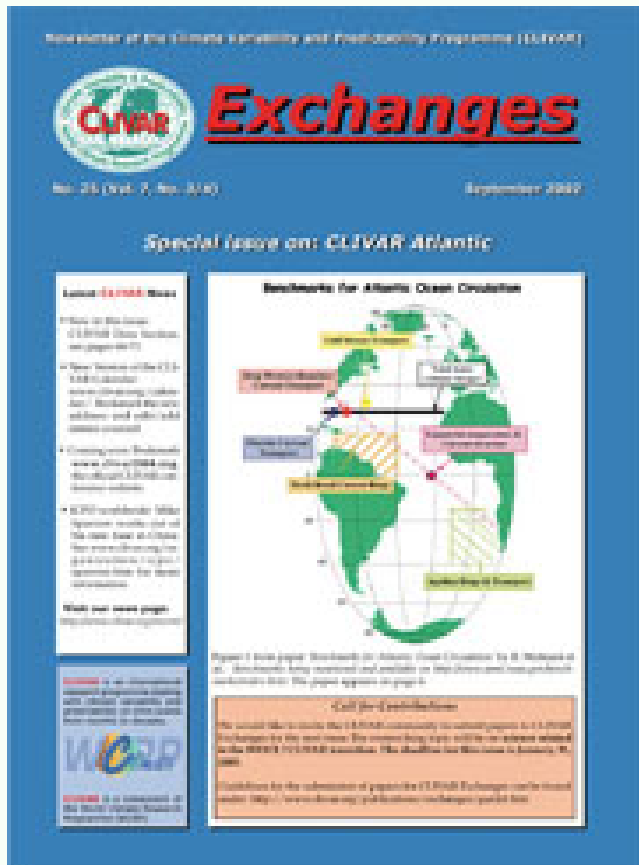
- **Provide coordination to facilitate CLIVAR implementation**
- **Facilitate the activities and meetings of the CLIVAR implementation panels and working groups, providing follow up of actions and decisions**
- **Provide coordination between other projects of WCRP and other national and international programmes and activities**
- **Development and implementation of CLIVAR data management.**
- **Publicise CLIVAR, through its Newsletter, Website, posters, meetings and personal contacts etc. and distribute information on CLIVAR to a variety of recipients**



ICPO staff meeting Feb 2003



CLIVAR Exchanges 2003/4



Special issues on:

- Coupled modelling (Dec 03)
- SALLJEX!! (Mar 04)
- Applications of CLIVAR Science (Jun 04)

Size \approx 30 pages; Distribution
~ 1700 copies per issue

CLIVAR 2004

1st International CLIVAR Science Conference

June 21-25, 2004, Baltimore, USA

Understanding and Predicting Our Climate System



The international research program on CLimate VARIability and predictability (CLIVAR; www.clivar.org) under the auspices of the World Climate Research Programme (WCRP), focuses on describing and understanding variability and change of the physical climate system on time scales from months to centuries and beyond. CLIVAR's goal is to assess predictability, and develop information systems and practical prediction capabilities.

The 1st International CLIVAR Science Conference will feature:

- **Invited overviews prepared by expert teams**
- **Stimulating invited presentations and discussion forums**
- **Contributed poster presentations (with special emphasis on young scientists' participation)**

Contributions are solicited on research topics that include, but are not limited to:

- **Advances in understanding elements of the climate system**
Seasonal-to-interannual variability, especially ENSO, monsoon systems, decadal (and longer) variability, and anthropogenic climate change
- **Looking into the past**
Analysis of paleoclimate records; reanalyses
- **New approaches to climate prediction**
Modeling, data assimilation, and validation
- **Improvements to the observing system**
- **Climate applications**
Who are our clients? What products and information do they need?

Organizing Committee

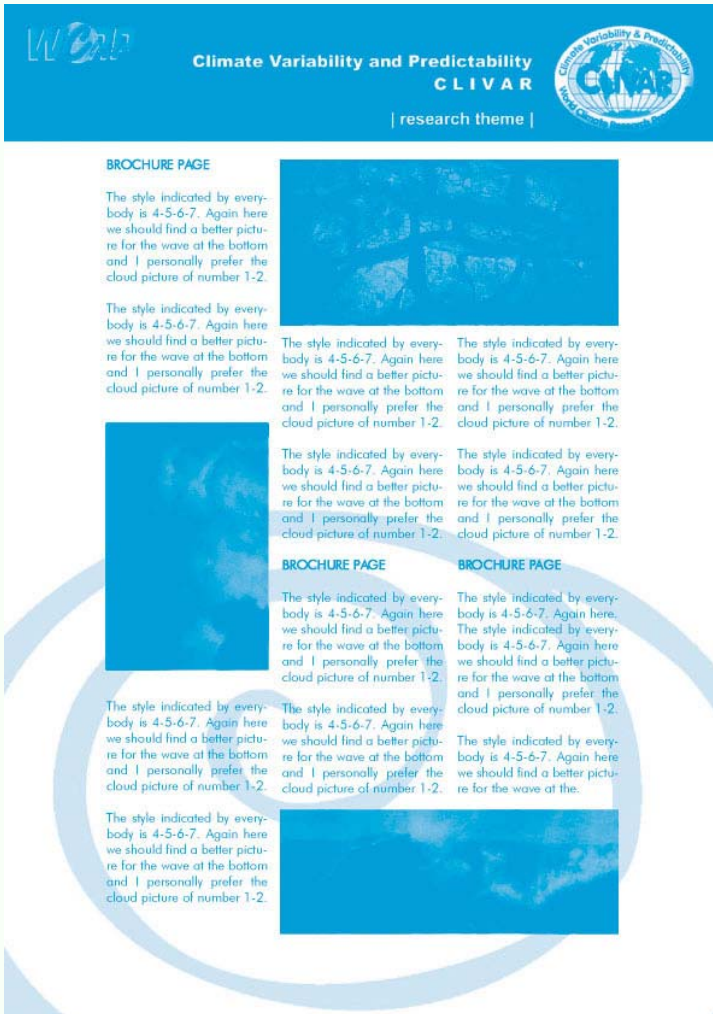
A committee of international scientists is organizing the conference. Leaders of this committee include:

- Lennart Bengtsson (Max-Planck-Institut, Hamburg) – Organizing Committee Chair
- Antonio Busalacchi (Univ Maryland) – CLIVAR Scientific Steering Group Co-Chair
- Jürgen Willebrand (IFM, Kiel) – CLIVAR Scientific Steering Group Co-Chair
- David Legler (US CLIVAR Office) – Local Organizing Committee Chair

Conference contact: info@clivar2004.org

www.clivar2004.org





CLIVAR folder with panel flyers

Background

A CLIVAR folder with panel flyers is being designed and will be distributed at the CLIVAR Conference (June 2004, Baltimore). The flyer is one sheet (2 pages) per panel.

CLIVAR Conference

participation of Latin American countries

- **Asked for support (33)**
Argentina (11), Brazil (13), Cuba (1), Mexico (2), Peru (3), Suriname (1), Uruguay (2)
- **Supported by WCRP/US CLIVAR/IAI (10)**
Argentina (3), Brazil (4), Mexico (1), Suriname (1), Uruguay (1)
- **Registered (13)**
Argentina (4), Brazil (6), Chile (1), Suriname (1), Uruguay (1)



CLIVAR SSG-12: some outcomes/actions...

May 2003, Victoria, Canada

Under CLIVAR/PAGES

49. Investigate possibilities for coordination with NAME on paleo drought workshop.

Post Conference new directions for CLIVAR

53. Organise self assessment for CLIVAR along lines of PRAs...

54. Propose 2013 as sunset date for CLIVAR ...

55. All CLIVAR Panels to provide a brief summary of what they have accomplished relative to what they set out to do and what they think they can achieve by a given sunset date of 2013.



CLIVAR mid-term assessment

CLIVAR SSG12 - *to organize a self-assessment, in order to measure the achievements to date against the CLIVAR objectives and to provide the SSG with the input to determine what steps might be necessary to ensure future progress*

How - *the review will be organized by CLIVAR streams: **GOALS, DecCen, and ACC** and by unifying themes, ie “**Data**” and “**Modelling**”. The Reviewers will comment on relevance/progress and assess the effectiveness of the organisational structure.*

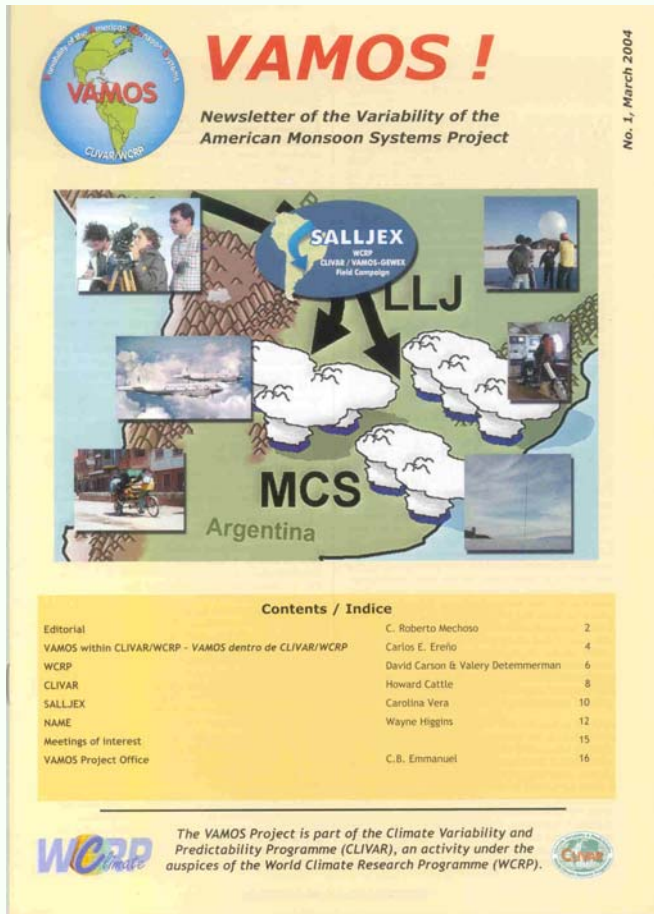
Particular outcomes of JSC-XXV

(Moscow, 1-6 March 2004)

- Congratulated PLATIN for its successful GEF bid recognising need for strong liaison and other WMO-sponsored programmes (in particular hydrology and water resources) will be crucial - WMO needs to be fully appraised of this (action on D/WCRP).
- Requested CLIVAR and GEWEX review their monsoon related activities to achieve better coordination and to develop a pan-WCRP monsoon modelling strategy (action on chairs of CLIVAR/GEWEX)
- Further developed the concept of the WCRP Climate Observation and prediction Experiment (COPE)
- Welcomed the CLIVAR self-assessment
- Welcomed Tim Palmer as the new CLIVAR SSG co-chair replacing Jurgen Willebrand



VAMOS ! – March 2004



Annual publication

First issue: Introduction of VAMOS

Content of future issues?

Size = 16 pages;

Distribution = 1400 copies

Improve database

