Overview of CLIVAR ICPO
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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

- **GOALS**
  - Monsoons
  - Tropical Modes
  - Extra-Tropical Modes
  - Thermohaline Circulations
  - Anthropogenic Climate Change

- **G2** Variability of the Asian-Australian Monsoon System
- **G1** ENSO: Extending & Improving Predictions
- **G3** Variability of the American Monsoon Systems
- **G4** African Climate Variability
- **D1** North Atlantic Oscillation
- **D2** Tropical Atlantic Variability
- **D3** Atlantic Thermohaline Circulation
- **D4** Pacific and Indian Ocean Decadal Variability
- **D5** Southern Ocean Climate Variability

- **ACC**
- **DecCen**

- **A1** Climate Change Prediction
- **A2** Climate Change Detection & Attribution
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 ≈ 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:

- Leopold Bengtsson (Max Planck Institute, Hamburg) - Organizing Committee Chair
- Antonio Busalacchi (UMD, Maryland) - CLIVAR Scientific Steering Group Co-Chair
- Jurgen 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
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 ot 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