

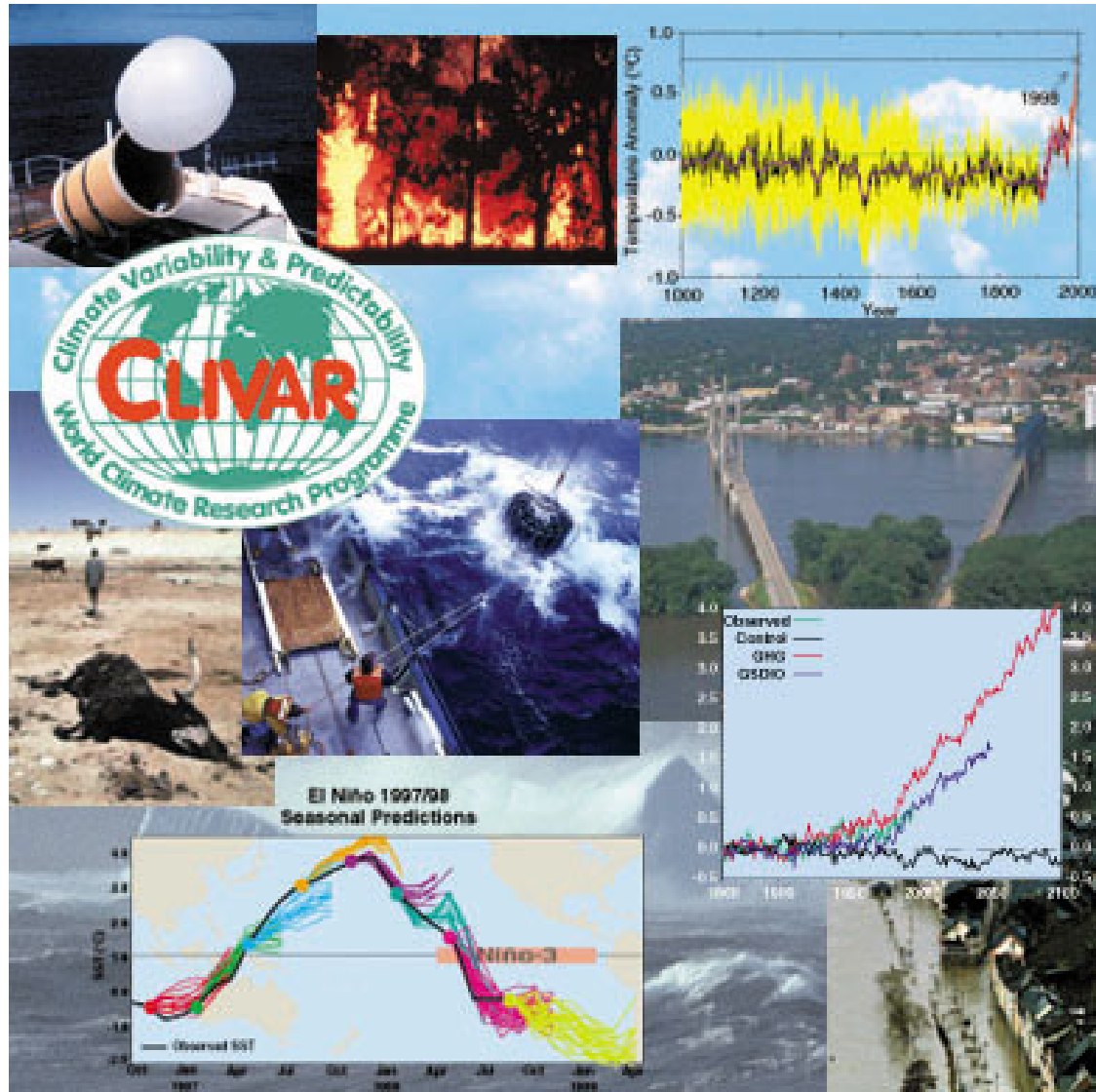
CLIVAR SSG - issues and outcomes

Carlos Ereño and Howard Cattle
ICPO

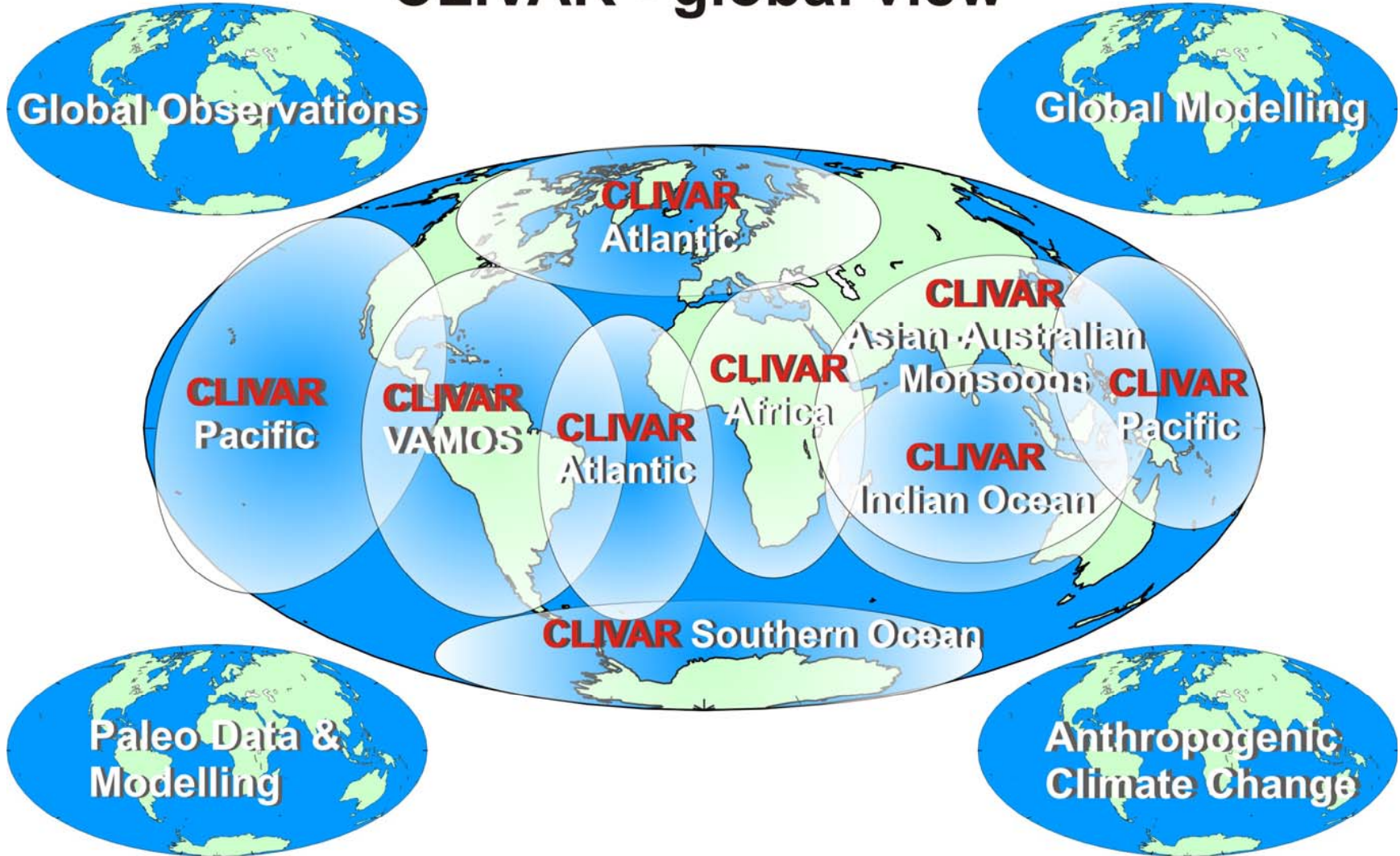
CLIVAR (Climate Variability and Predictability)

Mission

To facilitate observation, simulation and prediction of changes in the earth's climate system with a focus on ocean-atmosphere interactions, enabling better understanding of climate variability, predictability and change, to the benefit of society and the environment in which we live.



CLIVAR - global view





CLIVAR Organization



Scientific Steering Group

Crosscutting (global) Panels

Observations & Data

CLIVAR Synthesis & Observations Panel

PAGES/CLIVAR Working Group

CCI/CLIVAR Expert Team on Climate Change Detection

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

Atlantic Implementation Panel

CLIVAR/CLIC/SCAR Southern Ocean Imp. Panel

Variability of the American Monsoon Systems (VAMOS)

Pacific Implementation Panel

CLIVAR/GOOS Indian Ocean Implementation Panel

Variability of the African Climate System Panel

¹Principal Research Areas

International CLIVAR Project Office





ICPO Secretariat is centred in Southampton, UK.



New Director, Bob Molinari, will join the ICPO from 1 Sep 2010



Nico Catalbiano
Science Officer



Sandy Grapes
Administrative Assistant



Anna Pirani
Science Officer, located in Trieste, Italy



Carlos Ereno
Science Officer, located in Buenos Aires, Argentina



Kate Stanfield
Science Officer

New part-time member of staff (Xiaohui Tang , China)

CLIVAR SSG

J. Hurrell (co-chair)
M. Visbeck (co-chair)
W Dong
K Drinkwater
L. Goddard
S Gulev
C. R. Mechoso
S Schubert
D Wang

NCAR, USA
IFM-GEOMAR, Germany
Beijing Normal University, China
IMR Bergen, Norway
Earth Institute at Columbia, USA
Russian Academy of Sciences, Moscow, Russian Federation
University of California, USA
NASA Goddard Space Center, USA
Chinese Academy of Sciences, Guangzhou, China

Ex Officio Members:
CLIVAR Panel and Working Group Chairs
K Trenberth (Chair, GEWEX SSG)

SSG-16 Madrid, May 2009



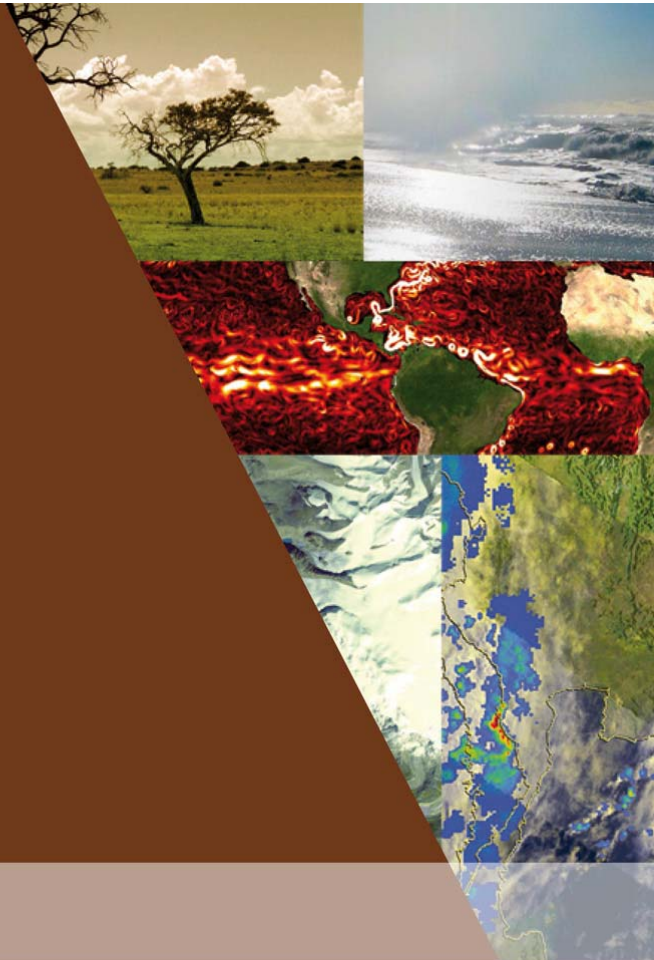
SSG-17 Boulder, May 2010



CLIVAR SSG-16

Focused on 2 areas:

- 1 Building consensus on the overall imperatives for CLIVAR science and their implementation over the next 5 years, for feed into the overall WCRP Implementation Plan 2010-2015
- 2 Assessing the progress of CLIVAR Panels and Working Groups in terms of advancing CLIVAR science



ICSU-WMO-IOC-IGFA

Review of WCRP

Published in February 2009

Electronic version
available at:

<http://www.icsu.org/>

Review of the World Climate Research Programme (WCRP)

Report from an ICSU-WMO-IOC-IGFA Review Panel

Imperatives: build consensus

CLIVAR SSG-16 (Madrid, 19-22 May 2009)

- Asked each panel/WG to identify:
 - Imperatives over the coming years to 2013/15 and, perhaps, continuing over the next decade? Activities that "must" be continued and/or implemented because they are of the highest scientific importance with a high likelihood of success.
 - What are the frontiers for the next decade and beyond?
 - What key developments to enabling infrastructure necessary to deliver to the above.
- Document developed organized around
 - WCRP crosscutting topics (ACC, AC&C, decadal and seasonal prediction, sea level rise, monsoon and extremes) under WCRP
 - Additional focus on ocean observations, synthesis and modeling as particular CLIVAR contributions to overarching WCRP themes.
- Outcomes factored into WCRP Implementation Plan



WCRP Implementation Plan and Accomplishment Report were Published in 2009.

WCRP IMPLEMENTATION PLAN 2010-2015

THE WORLD CLIMATE RESEARCH PROGRAMME ACHIEVEMENTS

Scientific Knowledge for Climate Adaptation, Mitigation and Risk Management

CLIVAR Imperatives

- Anthropogenic Climate Change
 - Long term change
 - Natural versus forced variability
 - Regional phenomena and impacts
 - Extremes
- Decadal Variability, Predictability and Prediction
 - Determination of predictability
 - Mechanisms of variability
 - Role of oceans
 - Adequacy of observing system
 - Initialization
 - Monsoons
 - Extremes - drought
- Intraseasonal and Seasonal Predictability and Prediction
 - Role of land/ocean (GOALS)
 - Initialization
 - Monsoons, ISV/MJO

CLIVAR Imperatives

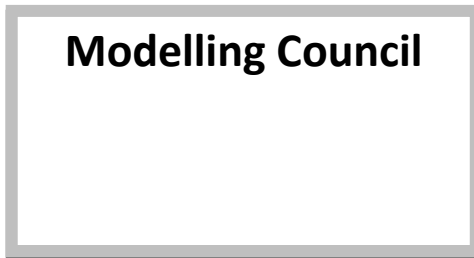
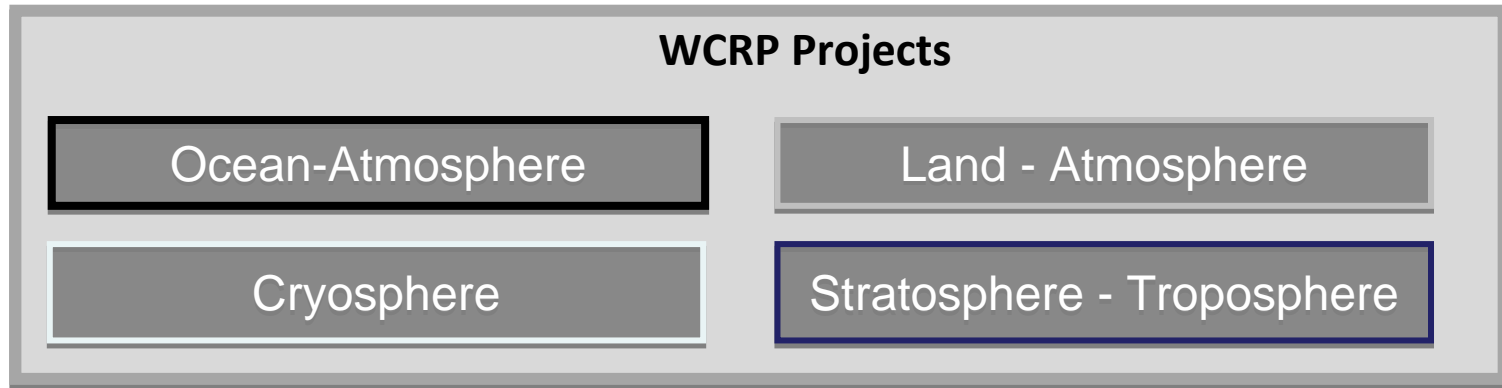
- Anthropogenic Climate Change
 - Decadal Variability, Predictability and Prediction
 - Intraseasonal and Seasonal Predictability and Prediction
-
- Improved Atmosphere and Ocean Components of ESMs
 - Ocean model development
 - Analysis and Evaluation
 - Process studies/“Climate Process Teams”
 - Data Synthesis and Analysis
 - Ocean
 - Coupled Data Assimilation Systems (with WOAP)
 - Ocean Observing System
 - Development and System Design
 - (Build LINKS WITH IGBP for Carbon, Biogeochemistry, Ecosystems)
 - Capacity Building **“Tiger Teams” set up to develop way ahead, including timelines, drawn together in a summary document for SSG-17**

CLIVAR SSG-17

(Ken Sperber attended on behalf of AAMP)

Meeting was focused around

1. Long term changes (presently being formulated) in the overall structure of WCRP
2. CLIVAR imperatives and their implementation
3. Key progress by CLIVAR Panels and Working Groups (including how they contribute to the imperatives) and issues arising



Overall SSG view that CLIVAR could adapt to new structure with attention to issues like:

- Scope
- Structure (including SSG)
- Partnerships (WCRP, Global Change Programs)
- Interfaces (Regions, Applications)
- Deliverables (Data, Models, Information-Services)

Feedback to be provided to JSC for WCRP

WCRP Open Science Conference, Denver, 24-28 Oct 2011

Climate Research in Service to Society

Monday: *The Climate system components and their interactions*

Tuesday: *Observation and analysis of the climate system*

Wednesday: *Improving predictive capabilities*

Thursday: *Environmental assessments*

Friday (early a.m.): *Regional climate*

Friday (late a.m.): *Challenges and the future*

www.wcrp-climate.org/conference2011/

Will provide one opportunity for community discussion of future structure of WCRP

WCRP OPEN SCIENCE
CONFERENCE

CLIMATE RESEARCH IN SERVICE
TO SOCIETY



24–28 October 2011, Denver, Colorado, USA

www.wcrp-climate.org/conference2011

CLIVAR imperatives

- Discussed in breakout groups in terms of their implementation
- Imperatives document to be further developed by new ICPO director and staff in consultation with Panels and Working Groups.
- Panels are/will be asked to report on their contributions to the imperatives.
- In response to the request from AAMP, the SSG encourages to seek to meet more frequently than at 18 month intervals.

Next SSG is expected to be at IOC, Paris, France, May 2011.

Particular issues for Panel consideration arising from SSG-17

- Overall WCRP effort on monsoons debated and need for overall coordination mechanism discussed – in particular AAMP is encouraged to develop its links with GEWEX AAM activities, particularly those under CEOP
- Panel asked to consider how it might contribute to the pan WCRP Conference
- All Panels and WGs encouraged to explore the writing of synthesis papers as input to IPCC AR5 and to coordinate analysis of CMIP-5 runs (“tiger team” activity)
- Review membership
 - Some members’ terms now time expired, some others expire at end of 2010



Thank you

