

CLIVAR SSG - issues and outcomes

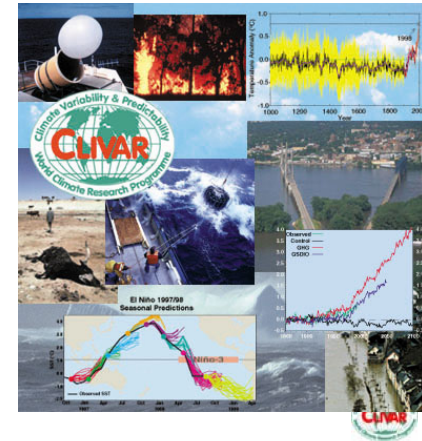
Carlos Ereño and Howard Cattle
ICPO



CLIVAR (Climate Variability and Predictability)

Mission

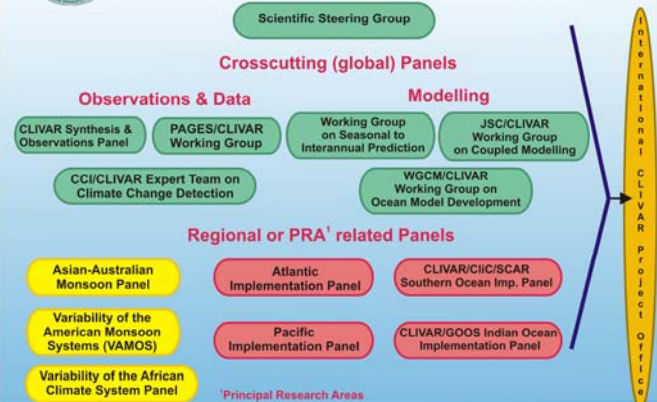
To facilitate observation, simulation and prediction of changes in the earth's climate system with a focus on ocean-atmosphere interactions, enabling better understanding of climate variability, predictability and change, to the benefit of society and the environment in which we live.



CLIVAR - global view



CLIVAR Organization WCRP



WCRP
World Climate Research Programme

ICPO Staff

ICPO Secretariat is centred in Southampton, UK.

 New Director, Bob Molinari, will join the ICPO from 1 Sep 2010	 Nico Catalbiano <i>Science Officer</i>
 Sandy Grapes <i>Administrative Assistant</i>	 Anna Pirani <i>Science Officer, located in Trieste, Italy</i>
 Carlos Ereno <i>Science Officer, located in Buenos Aires, Argentina</i>	 Kate Stanfield <i>Science Officer</i>

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

<http://wcrp.wmo.int>



CLIVAR SSG

J. Hurrell (co-chair)	NCAR, USA
M. Visbeck (co-chair)	IFM-GEOMAR, Germany
W Dong	Beijing Normal University, China
K Drinkwater	IMR Bergen, Norway
L. Goddard	Earth Institute at Columbia, USA
S Gulev	Russian Academy of Sciences, Moscow, Russian Federation
C. R. Mechoso	University of California, USA
S Schubert	NASA Goddard Space Center, USA
D Wang	Chinese Academy of Sciences, Guangzhou, China

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

SSG-17 Boulder, May 2010





SSG-16 Madrid, May 2009



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

WCRP
World Climate Research Programme


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




<http://wcrp.wmo.int>

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






Major Publications


 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

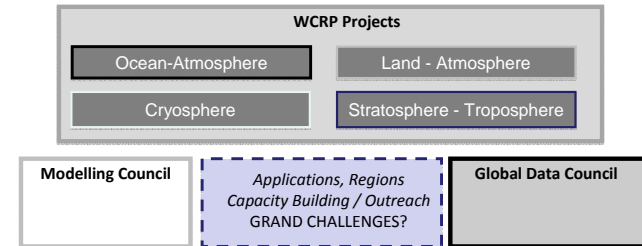
(Lisa Goddard made the VAMOS presentation on behalf of the co-chairs)

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



WCRP JSC views on future structure for WCRP and its Projects post 2015



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
World Climate Research Programme

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

24-28 October 2011, Denver, Colorado, USA
www.wcrp-climate.org/conference2011

WCRP+

<http://wcrp.wmo.int>

CLIVAR imperatives

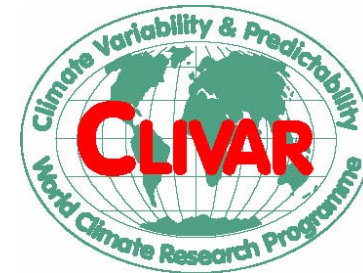
- Discussed in breakout groups in terms of their implementation
- Imperatives document to be further developed by new ICPO director and staff in consultation with Panels and Working Groups.
- Panels are/will be asked to report on their contributions to the imperatives.

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



Particular issues for Panel consideration arising from SSG-17

- SSG happy , overall, with VAMOS progress
- Total WCRP effort on monsoons debated and continued need for overall coordination mechanism discussed (to be taken forward separately)
- Panels 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 membership terms expire at the end of 2010



Thank you



www.clivar.org

