

INTERNATIONAL CLIVAR PROJECT OFFICE
REPORT TO WGSIP-14

Bob Molinari
ICPO

OUTLINE

- 1) ICPO STAFF AND FUNDING
- 2) WGSIP RELEVANT DISCUSSIONS AT JSC-32
- 3) WGSIP RELEVANT DISCUSSIONS AT SSG-18

ICPO FUNDING

> NERC HAS INFORMED WCRP THAT THEY WILL NOT RENEW SUPPORT FOR ICPO WHEN PRESENT CONTRACT EXPIRES MARCH 2013

➤ A TWO TRACK APPROACH IS BEING TAKEN TO FIND NEW SUPPORT

>> TRACK ONE: WRITING A PROPOSAL FOR SUPPORT OF ICPO AS A UNIT AND ATTEMPT TO FIND A COUNTRY(S) AND/OR ORGANIZATION(S) TO PROVIDE FUNDS

>> TRACK TWO: ATTEMPTING TO JOIN LARGE PROPOSALS AS A CO-INVESTIGATOR TO PERFORM REQUIRED MANAGEMENT, LIASON, COORDINATION, ETC. FUNCTIONS

> OTHER IDEAS, SUGGESTIONS, ETC. WOULD BE WELCOME

SPONSOR COMMENTS AT JSC-32

WMO.

In terms of the Global Framework for Climate Services, it is important that **WCRP works closely with GCOS and plays a role in the research effort with respect to climate services**. Mr. Lengoasa listed elements that should be prevalent in WCRP from WMO's perspective, including: **strengthen research and observations; develop climate prediction systems; ensure development of reliable high resolution products for adaptation and risk management, promote interdisciplinary research; foster close interaction with regional institutions; and address critical issues of rapidly emerging societal needs.**

IOC

Dr. Watson-Wright also listed IOC expectations for WCRP in the future, stressing that **outreach, beyond the science**, is one of the most important expectations for WCRP from IOC's perspective.

ICSU

ICSU are in strong support of the ambition to **strengthen ties to the user community** (which emerged from the WCRP review), and that strategic outreach to the wider community is of great importance.

Common theme from sponsors: WCRP should become an active player in climate services

Future structure of WCRP

Presented by Professor Dave Griggs at JSC-32

Director, Monash University Sustainability Institute

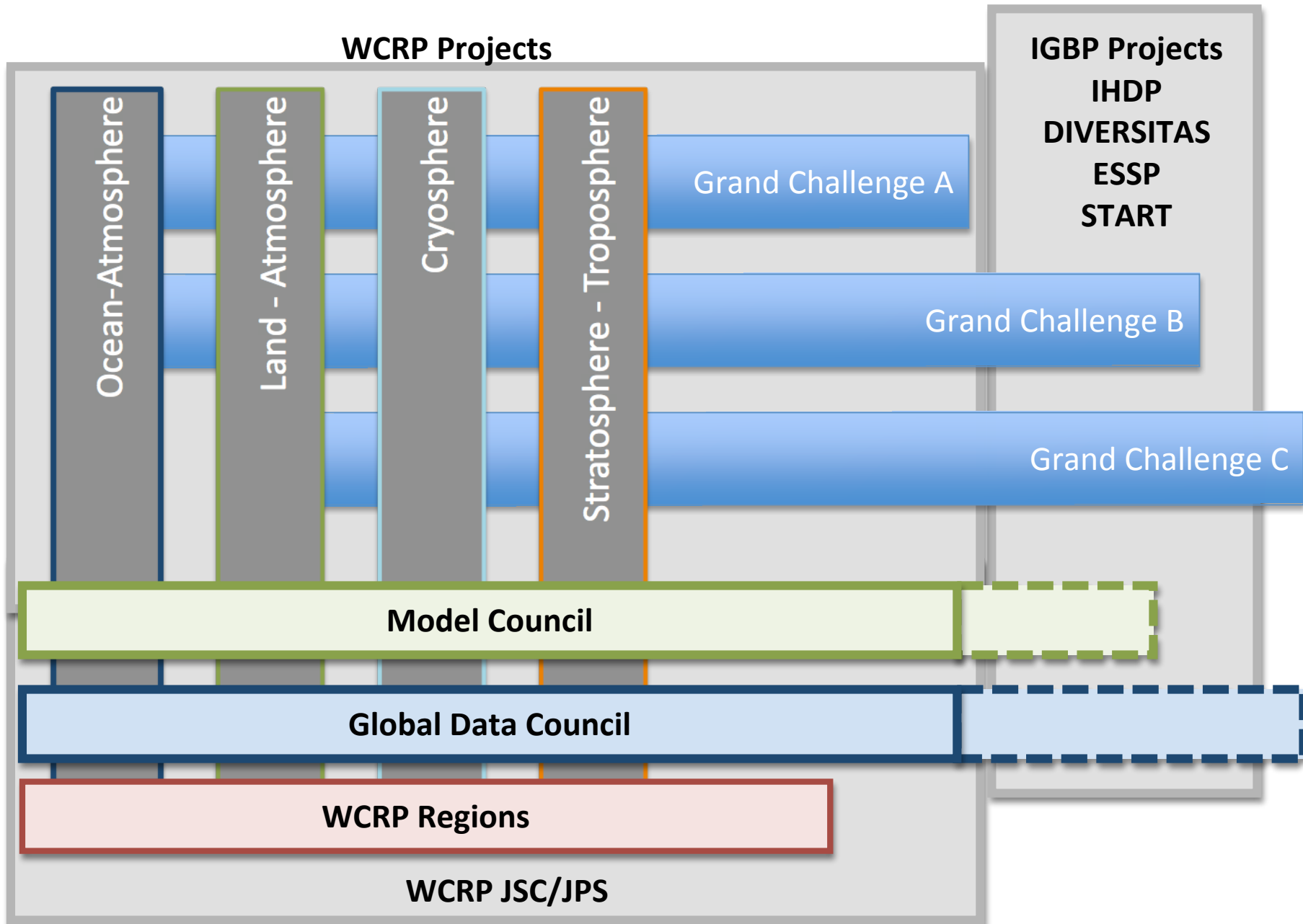
- **Top level structure agreed upon at previous meetings**

Four Core Projects will continue to be the main bodies through which WCRP will carry out its work program.

- Ocean-atmosphere (CLIVAR migrates)
- Land-atmosphere (GEWEX migrates)
- Cryosphere (CliC migrates)
- Stratosphere-troposphere (SPARC migrates)

In order to achieve this each Core Project will be supported by an International Coordination Project Office

Future structure for WCRP



APPROVAL OF WCRP MODELING COUNCIL

- **Summary and Conclusions**

A WCRP modelling advisory council is essential and should focus on coordination and integration of modelling activities across WCRP Projects and Panels, with the WCRP partners (e.g. IGBP and WWRP).

The Modelling Council should promote model development, evaluation and applications in a way that makes the whole Programme activities greater than the sum of individual Working Groups and Panels through “grass roots” efforts and not a “top-down” approach.

The Modelling Council should build on the strengths of the existing modelling activities rather than duplicate or re-create new ones, unless it is found absolutely essential, e.g. WCRP new initiative in regional models and downscaling.

Develop an overall modelling strategy for the Programme with associated governing mechanism(s) to implement it, based on the principles stated above for review and discussion by the JSC.

Draft Terms of Reference for the WCRP Climate Observations, Analysis and Information Council

The WCRP Observations, Analysis, and Information Council (hereinafter, the Council) has been established to identify and promote cross-cutting activities of WCRP and GCOS related to observations and data assimilation.

This process involves liaising with the observational elements of each WCRP core project as well as with the WCRP working groups (WGNE, WGCM, and WGSIP).

The Council is also seen as a focal point for WCRP interactions with other observational groups and programs.

The Council will facilitate communication both within the research community and between data developers and researchers.

The activities of the Council can be divided into four categories: the collection of observations, the production of datasets, the assimilation and reanalysis of data, and the link to Earth System modelling. Draft terms of reference have been developed for each category and are available in JSC-32 Draft Report.

JSC-32 ACTION ITEMS RELATIVE TO WGSIP

NUMBER 2: MODELING COUNCIL TO DETERMINE WHERE AND HOW REGIONAL CLIMATE MODELING SHOULD RESIDE WITHIN WCRP FUTURE STRUCTURE (MODELING COUNCIL, REPORT TO JSC-33)

NUMBER 7: GREATER PARTICIPATION BY THE SEA ICE COMMUNITY IS NEEDED ON THE THIRD GROUP OF WGSIP EXPERIMENTS (CLIC, JULY 2011)

NUMBER 8: WGCM AND WGSIP TO ENGAGE CORE PROJECTS IN ANALYZING THE NON-STATIONARITY OF MODES OF CLIMATE VARIABILITY IN CMIP5 AND REPORT BACK TO JSC (WGCM, WGSIP, REPORT TO JSC-33)

NUMBER 16: JPS AND CORE PROJECTS TO FIRM UP MEMBERSHIP INFORMATION BEFORE PRESENTATION TO JSC (CORE PROJECTS, JPS, AUGUST 2011, COMPLETED)

CLIVAR ACTIONS TO ADDRESS JSC COMMENTS SERVED AS OBJECTIVES FOR SSG-18

- 1. The strategy for the evolution of CLIVAR noting such questions as what research should be the focus of an ocean-atmosphere project?
- 2. Is it time to “downsize” CLIVAR? If so, where do some current (broader) activities fit in the restructured WCRP?
- 3. Should CLIVAR change its name?
- 4. How to ensure needed interactions across other international research programs in a restructured WCRP?
- 5. How to enable critical and effective interfaces for regional programs?
- 6. How does one define “Grand Challenges” and what role should they play in a revised WCRP structure?

OBJECTIVE 1: FOCUS OF AN OCEAN-ATMOSPHERE PROJECT

- Do monsoons belong in the future Ocean or Land core projects or should there be a separate monsoon project?
- Do the JSC core projects Ocean-Atmosphere and Land-Atmosphere each have an atmospheric component or should there be an atmospheric crosscut?
- Some moderate changes of the sub-panels would be desirable, but most importantly several of the existing panels/working groups already have significant linkages to the other WCRP projects. In a new 'CLIVAR' with possibly a reduced scientific scope, it was not apparent that it would be best supported by a radically different sub-panel structure.
- The vertical structure of the revised WCRP was extensively discussed with a different horizontal structure proposed
- The potential advantages of a horizontal organization are to be addressed by a small working group tasked with writing a prospectus for this alternate structure. The two-page document will be provided to the JSC for consideration in their deliberations of WCRP restructuring.

OBJECTIVE 2: Time to downsize CLIVAR and focus of an ocean-atmosphere project continued?

Several action items are directed at addressing if present CLIVAR activities should remain in the project including:

Develop a perspective vis-à-vis the JSC position on extremes

Clarify the WCRP monsoon structure with one paragraph input from GEWEX, WGSIP, VAMOS, AAMP

Report on on-going studies of regional sea level changes to ICPO

Report on on-going work and future aspirations on upwelling systems to ICPO

Revisit the GSOP terms of reference vis a vis those of WOAP/WCRP Data Council and OOPC and make recommendations to SSG prior to OSC

Provide a short summary of the linkages to other WCRP activities in South America for the SSG to evaluate if it is also de facto a WCRP regional panel

OBJECTIVE 3: RENAMING CLIVAR

Given the existing name recognition of the label CLIVAR there was little enthusiasm for a name change.

**OBJECTIVE 4: INTERACTIONS WITH OTHER
INTERNATIONAL RESEARCH PROGRAMS**

- Awaiting details of WCRP restructuring relative to interactions with other international research programs

OBJECTIVE 5: ENABLE INTERFACES FOR REGIONAL PROGRAMS

ACTION ITEMS ESTABLISHED TO ADDRESS OBJECTIVE

Develop TOR and list of potential members for Task Force on how best to communicate WCRP/CLIVAR research findings to Integrated Marine Biochemistry and Ecosystem Research (IMBER) and coastal research communities, and develop mechanisms for enhancing collaboration and exchange

All panels to report on on-going studies of regional sea level changes

Work with Greg Flato from the JSC and WGSIP to develop a WCRP strategy on how best to interact with the Regional Climate Outlook Forums (RCOFs)

OBJECTIVE 6: HOW TO DEFINE GRAND CHALLENGES AND THEIR ROLE IN REVISED WCRP STRUCTURE

GENERAL DISCUSSION ON GRAND CHALLENGES INCLUDED:

A CLIVAR Grand Challenge in one sense is an activity that extends beyond the 'ocean-atmosphere' box . For example, the CLIVAR imperatives could also be considered Grand Challenges.

Other criteria that should define a Grand Challenge include:

- > a highly specific and focused activity;
- the possibility for significant progress within a 5 to 10 year period;
- definable metrics,
- transformative research; and
- an activity that captures the public's imagination.

Some possible topics were presented by the break- out groups. More concrete actions are planned once the overall structure of the future WCRP becomes more apparent.

WGSIP ACTION ITEMS FROM SSG-18

- 5. Clarify the WCRP monsoon structure with one paragraph input from GEWEX, WGSIP, VAMOS, AAMP (Scaife, Berbery, Sperber, OSC)
- 10. Develop TOR and list of potential members for Task Force to map out CLIVAR decadal variability and predictability activities across all panels (Goddard, Boer, Scaife, WGSIP, WGCM, basin panels, OSC)
- 12. Explore possibility of including decadal variability in WGSIP's scope as one of the activities of the Decadal predictability task force (WGSIP, WGCM, OSC)