

CLIVAR Asian-Australian Monsoon Panel¹

Report to SSG-20

Harry Hendon - co-chair	BMRC, CAWCR, Melbourne, Australia
Ken Sperber - co-chair	Lawrence Livermore National Laboratory, Livermore, USA
In-sik Kang	Seoul National University, Seoul, Korea
Akio Kitoh	Meteorological Research Institute, JMA, Japan
Matthieu Lengaigne	National Institut of Oceanography, Goa, India
Holger Meinke	Tasmanian Institute of Agricultural Research
Madhavan Nair Rajeevan	National Atmospheric Research Laboratory, India
Andrew Turner	University of Reading, UK
Gabriel Vecchi	NOAA/Geophysical Fluid Dynamics Laboratory, Princeton, USA
Bin Wang	IPRC, University of Hawaii, USA
Xubin Zeng	University of Arizona, USA
Tianjun Zhou	State Key Laboratory of Numerical Modeling for Atmospheric Sciences and Geophysical Fluid Dynamics, China
Carlos Ereno: ICPO contact	University of Buenos Aires

¹through 2012



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¹awaiting SSG approval of proposed membership revisions



Asian-Australian Monsoon Panel

Major activities over the past year

(including contributions to CLIVAR science, and cooperation with other WCRP projects and outside bodies)

Restructuring of monsoon research under WCRP

(proposal prepared by H. Hendon and K. Sperber with input from VAMOS and MAIRS; preliminary comments by K. Trenberth and P. J. van Oevelen)

- Improved coordination of the study of monsoons in WCRP keeping in mind WCRP Grand Challenges, CLIVAR Research Challenges, and GEWEX Science Questions
- Establish a “global” forum for coordination of monsoon research
 - Advantages
 - Identify and coordinate the WCRP response to global monsoon challenges across GEWEX and CLIVAR (e.g., land and ocean interactions)
 - Recognize the importance of monsoon to global climate and to support JSC decision-making
 - A forum for national monsoon efforts to coalesce around
 - Link local efforts to core WCRP activities
 - Disadvantages
 - Yet another meeting
 - Need for additional funding



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Restructuring of monsoon research under WCRP

•Three possibilities

- a) **Create a new Pan-WCRP Monsoon Advisory Panel, while retaining the local panels in CLIVAR and GEWEX**
- b) **Business as usual, with monsoon research in WCRP promoted geographically regionally under CLIVAR AAMP, VAMOS, CLIVAR-GEWEX ACP, and under GEWEX GLASS and GHP RHPs and relying on these panels to be pro-active for developing coordination, including with WGSIP and WGCM**
- c) **Re-constitute the regional monsoon panels as the CLIVAR-GEWEX Monsoon Panel, subsuming all of the current monsoon activity in AAMP, ACP, and VAMOS, and then relying on limited lifetime task-teams to tackle regionally specific issues**

•Advantages

- a) Improved coordination
- b) No new resources
- c) No new resources, but reallocation of resources to task teams needed

•Disadvantages

- a) New resources needed for implementation
- b) Not working optimally, especially for ID/evaluation of common issues
- c) Loss of regional issues/focus and established X-programmatic linkages



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•Disadvantages of selecting c)

– AAMP

- WGNE MJO Task Force, GEWEX GASS, CINDY/DYNAMO: Intraseasonal experimentation/process diagnostics
- GEWEX: Monsoon session at next GEWEX Science Meeting
- WWRP Monsoon Panel: AAMP contribution to Expert Team on Climate Impacts on Monsoon Weather, Conference sponsorship (IWM-V)
- IMBER and MAIRS: Proposed study of the physical climate system and their impact on sustainability
- Proposed AAMP Members directly linked to: CORDEX and African land surface processes

– VAMOS

- Restructuring VAMOS to a global monsoon program would likely disrupt many collaborator and stakeholder relationships as the broader global program would have more competing demands and would not possess a clear regional identity which collaborators have an affinity for
- Similarly, the loss of regional identity would likely alter established funding structures for regional monsoon research, particularly in developing countries where there is an explicit and obvious need to fund local and regional research efforts as opposed to funding research serving non-domestic interests and local funders



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Proposal: Pan-WCRP Monsoon Advisory Panel

- Formation of a high level Pan-WCRP Monsoon Advisory Panel (PMAP), much in the same vein as the WCRP Modeling Advisory Council, that will act as the key coordinating and oversight panel across WCRP for all monsoon activities
- Retain the regional climate panels, in particular the CLIVAR AAMP, the GEWEX-CLIVAR African Climate Panel, and VAMOS (however wide in scope VAMOS decides to be and which ever program will be its home). The monsoon activities in the ACP and VAMOS and in other GEWEX panels/projects would then be coordinated by the PMAP



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Pan-WCRP Monsoon Advisory Panel: Terms of Reference

- To act as the coordinating body for monsoon research activities across WCRP, especially identifying gaps and reducing unnecessary duplication, and promoting interaction and diagnosis where possible for those aspects of the global monsoon which act as integrated phenomena
- To advise and recommend to JSC and WCRP Projects the monsoon activities to be carried out across WCRP projects and programs
- To advise JSC and WCRP Projects on issues pertaining to improving monsoon predictions and simulations, improving understanding of monsoon predictability on timescales from intraseasonal to decadal, designing/developing monsoon process studies (modelling and field campaigns) and maintenance/acquisition of monsoon-specific in-situ observations
- To promote and sponsor international workshops that aim to assess progress and identify research needs



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Pan-WCRP Monsoon Advisory Panel: Terms of Reference (con't)

- **To coordinate and develop the CLIVAR Research Challenges and the GEWEX Grand Challenges that have monsoon foci in order to effectively support the WCRP Grand Challenges**
- **To recommend to the JSC and WCRP Projects the collaborations to be developed with other partners (including the weather community, MAIRS and IGBP) to meet the priority aims**
- **To facilitate to development of consensus views across WCRP on the communication of monsoon-related issues to the broader community**



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Pan-WCRP Monsoon Advisory Panel: Proposed Membership

- Members of the panel will be appointed for a 3-year term with the possibility of two 2-year extensions.
- Two co-chairs will lead the PMAP, one each from CLIVAR and GEWEX. The JSC will select the co-chairs from a short list of candidates prepared by consensus from the relevant CLIVAR and GEWEX panels, respectively. Co-Chairs will have a rotating position with a 2-year term, with the possibility of one 2-year extension. For continuity purposes both co-chairs will not rotate simultaneously.
- The other members of the PMAP should at least include:
 - A co-chair from each of AAMP, ACP, and VAMOS
 - A co-chair from each of GEWEX GASS and GHP/GLASS
 - Representatives from WGSIP and WGCM



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Pan-WCRP Monsoon Advisory Panel: Operation

- **Communicate regularly by e-mail**
- **Meet once a year, presumably in conjunction with a major WCRP monsoon workshop/meeting or CLIVAR SSG or GEWEX SSG meeting**
- **Promote and encourage joint meetings of working groups and/or panels to promote communication or to launch focused joint initiatives**
- **Avoid duplicating and overlap with existing working groups or panels**
- **The PMAP should have the flexibility and resources to promote action within existing WCRP projects and panels or by appointing limited duration task teams to accomplish its tasks. Secretariat could be provided through the ICPO and/or IGPO, but resources would have to be secured**

