

### Report of the Asian-Australian Monsoon Panel (AAMP)

1. Contributions to WCRP cross cutting topics as appropriate
  - Seasonal Prediction
    - Numerous efforts for investigating Dynamical Seasonal Predictability of the Asian–Australian Monsoon domain (and globally) are underway with a hierarchy of models. Improved coordination of the multiple efforts would serve to ascertain the limits of predictability over these domains.
    - The panel (Wang and Kang) has actively been involved in organization of APCC/ CliPAS project, which has analyzed DEMETER and APCC/CliPAS (10 models) multi-model hindcast experiments. The predictability of the major modes of AA Monsoon variability has been examined.
    - Wang, Sperber, Slingo, Kirtman, and other experts in the field have prepared a draft document for a range of metrics for assessment of AAM in COPES TSFP prediction experiments.
    - AAMP supports joint study with IOP of impact of existing and future obs on seasonal predictability and joint study with PP for assessing role of MJO for predictions of the 1997 El Niño
  - Decadal Predictability
    - WCRP encouraged monsoon panels to organize a global monsoon study, which will focus on intraseasonal to interdecadal variability of the global monsoon. Wang and Matsumoto are jointly working on this initiative. AAMP is contributing to Bali Pan-WCRP monsoon meeting for planning the IMS.
  - Monsoons
    - AAMP has been actively involved in planning AMY'08. Wang and Hendon participated in planning meeting In Beijing. Wang is Co-Chair of the AMY08 Science Steering Committee and is helping drafting AMY'08 Science Plan.
    - The panel endorsed the WCRP/THORPEX Tropical Convection and will provide advice for coordination of modelling activities
  - Other cross cutting topics
    - Anthropogenic impact on Asian-Australian Monsoon – collaboration with MAIRS in the preparation of a workshop on Anthropogenic Impact on Asian Monsoon in early 2008
2. Highlights of wider contributions to CLIVAR science
  - The panel agrees to organize, in collaboration with WGSIP and TFSP, the analysis of existing hindcasts and propose new hindcast experiments on the impact of land surface (experiment) initialization.
  - The panel agrees to organize, in collaboration with WGSIP, TFSP and the Pacific Ocean Panel, the analysis of existing hindcasts of the role of the MJO in the onset of the 1997 El Niño.
  - The panel agrees to organize, in collaboration with WGSIP, TFSP and Indian Ocean Panel, the analysis of existing hindcasts of predictability of Indian Ocean Dipole (ongoing discussions with Hendon, Vecchi, Behera, Meyers).

- The panel has considered developing a process study in conjunction with the IOP to address outstanding issues of ocean-atmosphere coupling in the Indian Ocean.
  - Linking AAMP, IOP and Pacific Panel efforts in monsoon studies.
  - AAM session at JSC TFSP workshop in Barcelona June'07
3. Cooperation with IGBP projects
    - AAMP participation in PAGES WG on global monsoons
  4. New activities being planned, including timeline,
    - AAMP in the Asian Monsoon Year and the Pan-WCRP monsoon activity.
    - AAMP involvement in the planning and organization of the AMY'08 and the Joint WCRP/THOPEX Year of tropical convection
    - A collaborative activity between AAMP and POP: MJO- ENSO interaction experiments
    - A collaborative activity between AAMP and IOP: a joint process study on IOD predictability
    - AAMP endorsed Schubert's proposal and will help organize the coordinated experiments on High resolution modeling of MJO and TC. The first workshop has been held in COLA in mid-August 2007.
  5. Description of your expected "legacy" at the end of CLIVAR (2013)
    - AAP has organized an AGCM intercomparison project focusing on monsoon predictability during 1997-1998 El Nino and several papers have been published based on the intercomparison (Kang et al. 2002, Wang et al. 2004, Waliser et al. 2005)
    - AAMP has been devoted to seasonal prediction of monsoon through actively organizing the APCC/CliPAS project, which involve 11 one- and two-tier models' hindcast experiments. Several papers have been submitted for evaluation of the models' prediction skill on Monsoon anomalies.
    - AMY '08 will be a milestone in study of Asian monsoon, jointly supported by CLIVAR and GEWEX through AAMP-MAHASRI collaboration with many Asian countries and USA.
    - Contributed to formation of IOP and subsequent enhancement of observing system in IO and
    - Brought to the forefront the importance and impacts of monsoon intraseasonal variability and its enormous prospects for its prediction
  6. Issues for the SSG
    - AAMP is planning its 9<sup>th</sup> panel meeting in conjunction with the WMO IWM4 in late October 2008 hosted by China. AAMP will help to organize a WWRP monsoon meeting including AAMP- relevant science sessions.
    - AAMP propose to hold a major pan-WCRP international monsoon symposium focusing on AMY'08 and Global monsoon study. This will contribute to WCRP Cross-cutting theme through CLIVAR and GEWEX. A proposal is going to be submitted for discussion.

## **Proforma for CLIVAR Panel and Working Group requests for SSG approval for meetings**

Requests should be made through D/ICPO ([hyc@noc.soton.ac.uk](mailto:hyc@noc.soton.ac.uk)), against the following headings:

1. Panel or Working Group:  
Asian-Australian Monsoon Panel
2. Title of meeting or workshop:  
Ninth Annual Meeting of the WCRP/CLIVAR Asian-Australian Monsoon Panel (AAMP-9)
3. Proposed venue:  
Beijing, China
4. Proposed dates:  
3-day meeting in the last two weeks in October 2008 (10/22-11/2)
5. Proposed attendees, including likely number:  
AAMP members (13 + ICPO staffer)  
Special invited experts, approx number about 10
6. Rationale, motivation and justification, including: relevance to CLIVAR themes & JSC cross cutting topics and any cross-panel/working group links and interactions involved:  
AAMP-8 was held in February 2007. A new meeting is proposed to be held 20 months later. The periodical meetings of the panel make it possible to review the status of the actions and recommendations approved at the previous sessions, update issues of importance to the panel, assess the interaction of AAMP with other CLIVAR panels, its contribution to the cross-cutting themes and other WCRP programs as well as IGBP programs and activities. The meeting will be held jointly with the WMO International Workshop on Monsoons IWM4. This is a unique opportunity to bring together scientists with a CLIVAR focus and scientists/forecasters with a WWRP focus (operational forecasting and application). The meeting will allow interacting with experts and enriching the approach to subjects of interest to the panel. The AAMP will play an active role in planning the agenda of the IWM4.
7. Specific objectives and key agenda items:  
To address different initiatives that are taking place in the area of interest of the panel, and especially to assess the AMY08 which will be mid-term at the time of the meeting. Planning for IMY/YOTC will then be facilitated by the past experience of AMY08 and the interaction of the WWRP/MP.  
The joint meeting with IWM4 will be an excellent opportunity to strengthen ties with scientific experts and forecasters that are participating in the IWM4 and in the various programs of AMY08.
8. Anticipated outcomes (deliverables):  
Increase the visibility of the activities of CLIVAR and AAMP in particular within the WMO and allow for better coordination of the monsoon activities in WWRP and WCRP.

Foster the participation of AMMP in on-going scientific activities related to monsoon sciences, especially in planning for IMY/YOTC.  
Report on the assessment the predictability of the state-of-the-art climate prediction models in AAM seasonal and intraseasonal prediction.  
Further actions that AAMP should take, especially regarding the data collection and coordinate modeling effort associated with the AMY08.

9. Format:

A special session is planned during IWM-IV to address scientific issues relevant to AAMP, including AMY08/ monsoon intraseasonal prediction. The panel meeting will be held simultaneously (back to back; yet to be worked out) with the IWM-IV. Experts will be invited to the panel sessions and half day will be devoted to an Executive Panel Session.

10. Science Organising Committee (if relevant): Panel members will be active in the planning of the IWM4.

11. Local Organising Committee (if relevant)

The local committee will benefit by sharing logistic arrangements with the IWM-IV meeting. IWM-IV is organized by the WWRP/TMR Monsoon Panel and cosponsored by the WCRP/CLIVAR Asian-Australian Monsoon Panel.

12. Proposed funding sources and anticipated funding requested from WCRP:

WCRP funds to support the participation of some panel members estimated at 15K.

Some invited experts and members will cover their travel expenses with funds from their national agencies.

Some funds can be raised from WMO for the invited experts to AAMP-9.

Local organization expenses to be determined. It is expected that most expenses will be covered by CMA.