

**1st pan-WCRP Workshop on the
Monsoon Climate Systems
- towards improved monsoon prediction -**

Introduction

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Origins of the Workshop

- Long time in gestation
- JSC-25 (Moscow, March 2004) requested CLIVAR & GEWEX review their monsoon-related activities to:
 - Achieve better coordination
 - Seek to reduce the number of monsoon-related panels
 - Develop a pan-WCRP modelling strategy
- In response to the JSC requests, Tetsuzo Yasunari convened a meeting of GEWEX & CLIVAR experts just prior to the CLIVAR Conference in Baltimore =>Workshop recommendation
- CLIVAR & GEWEX agreed to co-sponsor
- Joint CLIVAR/GEWEX SOC chaired by Ken Sperber and Tetsuzo Yasunari with assistance from the ICPO & IGPO



Workshop aims & objectives

- **To facilitate the interaction of CLIVAR & GEWEX, together with other components of WCRP as appropriate, to improve the prediction of the monsoon systems**
 - Review the monsoon-related activities of the WCRP with the objective of developing a pan-WCRP monsoon modelling and observation strategy
 - Review current understanding of fundamental physical processes that govern the monsoon climate systems
 - Make recommendations on a way forward to promote better monsoon predictions, taking into account the observational requirements for improving, initialising and validating models.
- **Focus on planning future activities that will strengthen and integrate current WCRP modelling efforts.**



JSC-26 expectations

- **Assess the current WCRP monsoon-related activities**
- **Assess the range of available observations and analyses in monsoon regions**
- **Propose the essential elements of a pan-WCRP monsoon modelling strategy**
- **Propose the structures for producing this strategy**
- **Propose the procedure for making any necessary improvements in monsoon observations and analyses with a view to their adequacy, and addressing any redundancy or duplications**



CLIVAR & GEWEX co-chair requests

- **Need for concrete suggestions**
- **Wish for recommendations and a plan of action for making near-term and tangible progress on monsoon modelling & prediction**
- **Recommendations for actions which CLIVAR & GEWEX can progress over the next 12 months a high priority**
- **Identify areas where progress cannot be made near term and reasons**
- **Most interested to hear of those areas/topics/recommendations where enhanced collaboration & cooperation between CLIVAR & GEWEX may lead to accelerated progress in improving monsoon modelling & prediction**



Workshop structure

- 1. Overview of key modelling issues & observational requirements & opportunities under WCRP**
 - CLIVAR through AAMP, VAMOS (MESA & NAME), AMMA (through VACS)
 - GEWEX - through GAME, CEOP
- 2. Overview of fundamental physics & dynamics of monsoons**
- 3. Modelling & predictability efforts**
- 4. Working Groups**
 - a. Strategy for parametrization development & observational data requirements
 - b. Strategy for system modelling & observational data for large-scale model validation
 - c. Monsoon prediction and required observational network

