

Monsoon Intraseasonal Variability Modelling Workshop

The CLIVAR AAMP and the YOTC MJO Task Force will hold a workshop 15-18 June 2010 at the APCC in Busan, Korea. The APCC is kindly hosting the workshop. The focus of the workshop is on modelling and predicting monsoon intraseasonal variability (ISV). This cross-cutting activity will provide a framework for assessing historical MJO and other monsoon ISV predictability from hindcast experiments, assessing skill of real-time forecasts for monsoon ISV, and report on recent advancements for simulation of monsoon ISV and the MJO, including results from high resolution global models.

Monsoon variability is dominated by ISV. Accurate prediction of monsoonal features such as onset, duration, and spell-characteristics that manifest themselves in ISV potentially have wide application in agriculture, water resource management, disease control, etc. However, simulation, much less prediction, of monsoon ISV remains a challenge. Simulation and prediction of monsoon ISV is a focus for a number of WWRP and WCRP panels and activities, including WGNE, WGSIP, AAMP, AMY, and YOTC.

This modelling workshop will:

- a) Provide an up-to-date assessment of the current capability to predict and simulate monsoon ISV
- b) Provide insight into the problems and issues that need to be addressed to move modelling capability forward
- c) Promote development and application of new diagnostics that provide insight into the physics essential for model simulations of the MJO and other monsoon ISV as well as the development and use of forecast skill metrics targeted to monsoon ISV.
- d) Provide a priority assessment for future research needs based on a – c above
- e) Attempt to match the current predictive capabilities with prediction needs of e.g. the agricultural and water resources sectors

Specific objectives and key agenda items are:

- 1) Assess the ability and utility of operational predictions of monsoon ISV at lead times to 1 month
- 2) Assess the current capability to simulate Monsoon ISV and MJO with global climate models and high resolution global and regional models, including the status of the “Hindcast Experiment for Intraseasonal Prediction”
- 3) Assess current state of knowledge of mechanisms and dynamics of monsoon ISV
- 4) Identify key deficiencies that need to be addressed to advance our ability to simulate and predict monsoon ISV
- 5) Assess new diagnostics of monsoon ISV that can provide insight into model performance and shortcomings and develop new forecast skill metrics tailored for monsoon ISV.

The format of the meeting will be a limited number of thematic overview talks, poster sessions (during which the bulk of the scientific presentations will be made), and then followed by plenary discussion sessions.

Please submit abstracts to sperber1@llnl.gov. The deadline for abstract submission is 19 March 2010.