

Message from Richard Swinbank

Dear Colleagues,

We would like to invite your contributions to the symposium J21 "Advances in Data Assimilation for Earth System Science" during the MOCA-09 general assembly, to be held in Montreal from 19-29 July 2009. MOCA-09 is a joint assembly of IAMAS, IAPSO and IACS (MOCA stands for Meteorology, Ocean, Cryosphere).

We will particularly welcome papers on stratospheric data assimilation from members of the SPARC-DA working group, and plan to have a section of the symposium on this topic, in association with the planned SPARC-DA meeting.

The abstract submission deadline is **23rd January**. Further details about the conference and the abstract submission web page are available on the conference website: http://www.moca-09.org/e/99-home_e.shtml

I hope to see you there

Richard Swinbank

J21 - Advances in Data Assimilation for Earth System Science Sponsoring associations: IAMAS, IAPSO, IACS

Convenors: Richard Swinbank (IAMAS), William Lahoz (IAMAS), Mu Mu (IAMAS), Andrew Roberts (IACS) and Paola Malanotte-Rizzoli (IAPSO)

Invited Speakers (as of 30 Dec 08): Hendrik Elbern , Universität zu Köln, Germany Pierre Gauthier, Université du Québec à Montréal (UQAM), Canada Eugenia Kalnay, University of Maryland, USA Pierre Lermusiaux, Massachusetts Institute of Technology, USA Zhiyong Meng, Pekin University, China Saroja Polavorapu, Environment Canada, Canada

Description:

Data Assimilation is a key technique in Earth Science, allowing the exploitation of the vast quantity of measurements of the Earth System. Data assimilation can organise the wealth of data from both satellite and in situ platforms to analyse the current and past state of the atmosphere, ocean and cryosphere and form the basis of improved forecasts from the meso to the global scale.

The session will bring together scientists working across a broad range of subject areas; particular topics will include:

- Advanced assimilation methods, including variational and ensemble-based approaches;
- Improved use of observations: adaptive observing methods,

calculation of observation sensitivities, observing system experiments and observing system simulation experiments, and validation metrics;

- Assimilation of data from new satellite instruments, such as COSMIC, CloudSat, IASI, OCO and ADM-Aeolus; - Applications to weather and climate prediction, oceanography, mesoscale and cloud-scale processes, atmospheric chemistry, the middle atmosphere and the cryosphere.

Abstract submission: Via http://www.moca-09.org/e/02-abstracts_submission_e.shtml **Deadline Friday 23rd JANUARY 2009** -- Dr Richard Swinbank Manager, Ensemble Forecasting Research & THORPEX Met Office FitzRoy Road Exeter EX1 3PB United Kingdom Tel: (+44) 1392 88 6619 Fax: (+44) 1392 88 5681 E-mail: richard.swinbank@metoffice.gov.uk <http://www.metoffice.gov.uk/>