



**SECOND CIRCULAR:
Invitation to participate in the:**



**3rd SPARC Dynamical Variability (DynVar) Workshop
22-24 April 2013, Reading, England, UK**

&

**1st SPARC Stratospheric Network for the Assessment of Predictability (SNAP) Workshop
24-26 April 2013, Reading, England, UK**

A joint DynVar/SNAP session will be held on 24 April

The aims of the DynVar workshop are two-fold, first to provide a forum for:

- discussion of the role of stratospheric dynamics and variability in CMIP5 and SHFP models
- identifying the most critical deficiencies in the representation of the stratosphere in current models. Where and how can models be improved?
- bringing insights from theory and observations to model development and consequently to prediction efforts.

and second to discuss the future direction of the DynVar Activity. The DynVar Workshop is organized around the DynVar Research Topics (<http://www.sparcdynvar.org/research-topics-groups-folder/>)

The aims of the SNAP workshop are to:

- begin the development of the new international network SNAP with interests in stratospheric predictability and impacts on the troposphere.
- design a new international experiment on stratospheric predictability which will be carried out by SNAP partners in several operational weather centres.

Keynote speakers: Joan Alexander, David Jackson, Thomas Jung, and Ted Shepherd

More details of both workshops including the list of invited speakers can be found at:
http://www.met.reading.ac.uk/~sws05ajc/DynVar_SNAP_Workshop/

SPARC DynVar (<http://www.sparcdynvar.org/>) is a multidisciplinary research activity focused on the influence of the stratospheric circulation on the global climate system, with particular emphasis on the two-way dynamical coupling between the troposphere and the stratosphere. The DynVar Activity is part of the Stratospheric Processes and their Role in Climate Project (SPARC), a core project of the World Climate Research Program (WCRP). Following the outcomes of the DynVar Workshop 2 (November 2010), the DynVar activity has launched an assessment of stratospheric dynamical processes and their impacts in climate change and seasonal prediction simulations performed under the protocols of the Coupled Model Intercomparison Project, Phase 5 (CMIP5) and the Stratospheric Historical Forecasting Project (SHFP), Gerber et al BAMS (2012).

We call for submissions on (but not limited to) the following topics:

- Stratospheric dynamical processes (mean, variability and change) and their representation in climate models
- Mechanisms of two-way stratosphere-troposphere coupling
- Influence of stratospheric dynamics on the mean state and variability of the troposphere, ocean, sea ice and carbon fluxes
- Role of stratospheric dynamics in tropospheric climate change and its implications

Single and multi-model analyses of CMIP5 and SHFP simulations are welcome. Expected outcomes of the DynVar workshop will be (1) publications on the status of modeling the stratosphere and stratosphere-troposphere dynamical coupling as benchmarked by the CMIP5 and SHFP simulations; (2) requirements for

advancing stratospheric modelling; (3) input for the implementation plan of DynVar next phase.

The **Stratospheric Network for the Assessment of Predictability (SNAP)** is a new SPARC initiative to investigate stratospheric predictability and its impact on the skill of medium-range to sub-seasonal forecasts throughout the troposphere and stratosphere. The project will seek to gain insight into stratospheric predictability by the design, execution and analysis of new multi-model stratospheric predictability experiments. The project is funded by the UK Natural Environment Research Council and SPARC and has initial project partners in five weather forecasting centres. The aim of the first SNAP workshop is to design this experiment and to build a network of researchers interested in stratospheric predictability, who will contribute to the analysis of results from the experiments.

We call for participation in the SNAP workshop from:

- Researchers who would like to present recent work on stratospheric predictability and stratosphere-troposphere coupling to inform development of the network and experiment design
- Researchers with an interest in the SNAP project who would like to contribute to the experimental design and who have an interest in scientific analysis of the pooled output of the experiments.

DynVar and SNAP Abstract Submission Deadline: 25 February 2013

The deadline for abstract submission is **25 February 2013**. Authors will be notified of abstract acceptance by **4 March 2013**. To submit abstracts please e-mail to sparc.snap@gmail.com with the subject line "DynVar/SNAP abstract submission" and include in your e-mail:

- a short abstract (in PDF format)
- if the abstract is for the DynVar and/or SNAP workshop (joint session: Wed, 24 April)
- any preference for oral or poster presentation
- if you would like to request financial support and an indication of costs. In this case, please also provide your CV (in PDF format) and motivation to attend the workshop(s)

A small amount of financial support to attend the workshop is available for early career researchers and those from least developed countries submitting an abstract. Decisions on financial support will be taken at the same time as abstract attendance and recipients notified as soon as possible.

Registration and Accommodation Deadline: 14 March 2013

There is a small registration fee for the workshops to cover coffee and lunch. The DynVar/SNAP workshop dinner will be Wednesday, 24 April 2013 (not included in the registration fee)

- DynVar workshop registration fee: £45
- SNAP workshop registration fee is £45
- For delegates attending both workshops the fee is £75
- DynVar/SNAP workshop dinner fee is £40

The registration fees and optional dinner costs will be collected (cash only) on site when delegates arrive.

Attendees should confirm registration for the meeting by e-mailing, sparc.snap@gmail.com by 14th March 2013 with the subject line "DynVar/SNAP registration". Please include in your e-mail:

- the workshop(s) you plan to attend
- if you would like to book a place for the conference dinner on Wednesday night
- any special dietary requirements

Discount hotel rates are available until **14 March 2013**. Please register for accommodation separately by visiting the website: http://www.met.reading.ac.uk/~sws05ajc/DynVar_SNAP_Workshop/accom.html Information on how to travel to Reading and on the venue, are there as well.

We look forward to welcoming you to Reading and hearing about the exciting work in stratospheric dynamics and predictability!

Dynvar Committee: Elisa Manzini (Coordinator), Amy Butler, Natalia Calvo, Andrew Charlton-Perez, Edwin Gerber, Marco Giorgetta, Judith Perlwitz, Lorenzo Polvani, Adam Scaife, Fabrizio Sassi, Tiffany Shaw and Shingo Watanabe

SNAP Committee: Andrew Charlton-Perez (Coordinator), Mark Baldwin, Martin Charron, Stephen Eckermann, Edwin Gerber, Yuhiji Kuroda, David Jackson, Greg Roff

Local Organizers: Andrew Charlton-Perez, Om Tripathi, Afzala Hussein

