

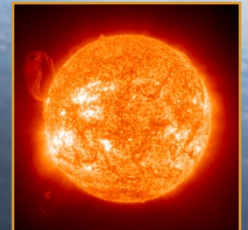
SPARC Data Assimilation Workshop Introduction

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Victoria, BC, Canada



Outline

- What is SPARC
- Data Assimilation Working Group (DAWG)
- This workshop and themes

SPARC: Stratosphere-troposphere Processes and their role in climate

- Core project of WCRP
- SPARC “coordinates international efforts to bring knowledge of the strato-tropo to bear on relevant issues in climate variability and prediction”
- Other WCRP core projects – Cryosphere, Water cycle, Climate Variability
- Publicity / activities
 - SPARC newsletters, reports
 - General Assembly every ~4yrs (last one: Jan 2014, NZ; next one: 2018, Japan)
 - Workshops like this
 - <http://www.sparc-climate.org>

- 3 interlinked themes:
 - *Detection, attribution and prediction of stratospheric changes*
 - *Stratospheric chemistry and climate interaction*
 - *Stratosphere-troposphere coupling*
- To address the questions of the 3 themes, **activities** have been, and continue to be, developed
- These activities are setup with **bite-sized objectives** and **targeted working groups**

- Chemistry Climate Model initiative (CCMI)
- Gravity waves
- Solar influence (SOLARIS-HEPPA)
- Dynamic variability (DynVar)
- Trace gas climatologies (Data Initiative)
- **Data assimilation**
- Water vapour (II) (WAVAS II)
- Ozone profile (II) (SI2N)
- **Assessing predictability (SNAP)**
- Temperature trends
- **Reanalysis intercomparison (S-RIP)**
- Stratospheric sulphur (SSiRC)
- Atmospheric Composition and the Asian Summer Monsoon (ACAM)

Emerging activities

- Towards Improving the Quasi-Biennial Oscillation in Global Climate Models (QBOi)
- Polar Stratospheric Clouds

SPARC DA Working Group (DAWG)

- Goal of DWAG: setup workshops to bring together assimilators, users, and experts in modelling, measurements and process studies around SPARC themes
- Workshops are reported in SPARC newsletter
- DAWG tends not to have beginning/middle/end but serves as a means for stratosphere researchers to interact and to kick off new projects where necessary (eg S-RIP, SNAP)

Themes for this Workshop

- Representation of the stratosphere-mesosphere in models and analysis
- Future directions (instruments, modelling, DA methods)
- Harmonization of long-term data record and bias correction in data assimilation
- Joint session with S-RIP workshop
- Discussion about next meeting
- Poster session on Wednesday but posters can be displayed for the whole week

Discussions

- Each theme has a 20' slot for discussion
- The goals are to discuss:
 - Issues that were presented in talks
 - Future direction for DAWG

Sponsors (DAWG and S-RIP)

- ECCC, NWRA, BIRA, University of Oxford and NECR
- SPARC/WCRP: travel support
 - One participant from Cameroun (Moudi IGRI, university of Yaounde)

I wish you a fruitful workshop