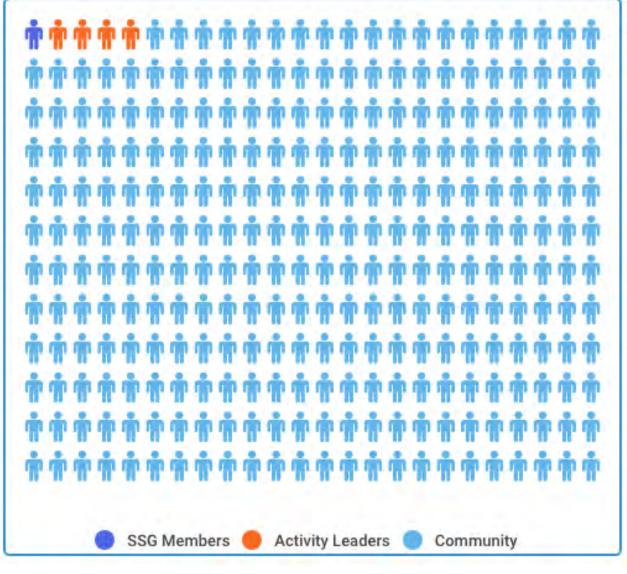


UPDATE October 2017



Community





13 SSG Members

46 Activity Leaders

>3400 Community Members



New 2018 SSG members



Wen Chen



Institute of Atmospheric Physics at Chinese Academy of Science

Nathaniel Livesey



Jet Propulsion Laboratory

Also SPARC Activity Lead **TUNER – Towards Unified Error Reporting**

SPARC Office is currently in transition from Zurich to DLR, Oberpfaffenhofen, Germany

About

Activities

Data Centre

Meetings Publications

News

Get involved

Home > About > SPARC Office

About

Themes

Activities

Leadership

SPARC Office

SPARC Office @ DLR, Institut für Physik der Atmosphäre (IPA)

The SPARC International Project Office (IPO) is responsible for the coordination of scientific and administrative aspects of the SPARC project and its activities under the oversight of the SPARC Scientific Steering Group.



www.sparc-climate.org/about/sparc-office/

About

Themes

Activities

Leadership

SPARC Office

Travel Support

Regional Services

SPARC Office

The SPARC International Project Office (IPO) is responsible for the coordination of scientific and administrative aspects of the SPARC project and its activities under the oversight of the SPARC Scientific Steering Group.

Contact the SPARC Office in Oberpfaffenhofen

Brigitte Ziegele

Office Manager

phone: +49 81 5328 2504@

fax: +49 81 5328 1841@

email: office@sparc-climate.org

sparc-office@dlr.de

Mareike Kenntner

Coordinating Project Scientist phone: +49 81 5328 1597 email: office@sparc-climate.org mareike.kenntner@dir.de

Winfried Beer





Mareike Kenntner

Mareike graduated as physicist at Heidelberg University while undertaking research for airborne optical spectrometry. Her PhD-project was carried out at DLR-IPA applying micro-wave remote sensing aboard the German research aircraft HALO. She gained experiences abroad during international field campaigns in Brazil, Malaysia and New Zealand. During her studies she had spent extended periods in New Zealand and the United States. Mareike is providing a tight coordinating link between the scientific planning facilitated by the SPARC Office and the necessary administrative tasks.



Hans Volkert

Hans has been a senior scientist at the DLR-IPA for many years. After graduation as meteorologist at Free University of Berlin he obtained a PhD in atmospheric physics from University of Munich. He undertook mesoscale modelling studies, was engaged with international field experiments and served as associated editor for various research journals. The organization of conferences (also for WMO) led to his service as Secretary-General of IAMAS for an 8-year period. He regards the direction of the SPARC Office team as a rewarding service for the benefit of the international and German parts of the WCRP communities.



Brigitte Ziegele

Brigitte has broad and year-long experiences regarding office management in a research institute with multi-faceted administrative tasks. For a number of years she took care of the regular office duties of an editor of the Journal of the Atmospheric Sciences. At the SPARC Office she provides much of the administrative backbone for the planning and execution of SPARC meetings from the scale of specialist workshops via the annual Scientific Steering Group meetings to the quadrennial General Assemblies, always tuned-in with the relevant staff of the World Meteorological Organization in Geneva.



Winfried Beer

Winfried takes care of much of the computing infrastructure at DLR-IPA, including software solutions and hardware requirements for web-hosting. The SPARC Office team can directly tap his broad personal knowledge for the move of the SPARC web-portal from Zurich to Oberpfaffenhofen and its further development.

Themes





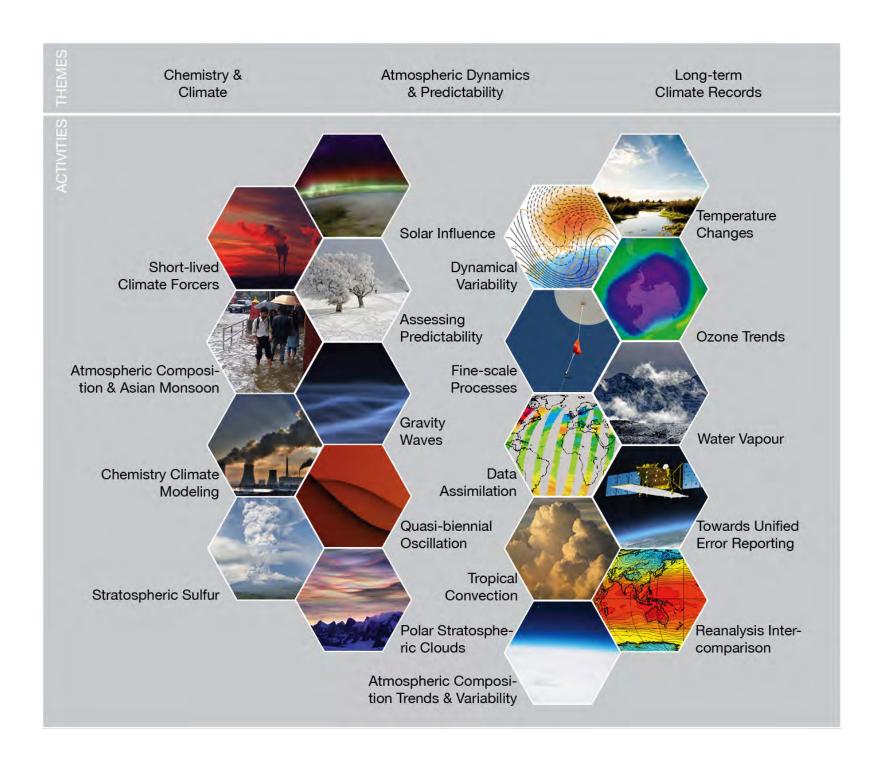
Atmospheric Dynamics + Predictability

Chemistry + Climate





Long-term Records for Climate Understanding



SPARC SSG25 Meeting in Incheon, Republic of Korea, 16-18 October 2017



- Update from WCRP
- Activity Reports
- Space Agency Reports
- Updates from Partner Projects (CLIVAR, GAW, IGAC)
- Capacity
 Development Report
- Discussion on Future Directions of SPARC







SPARC Reanalysis Intercomparison Project (S-RIP)

Progress Report -

Prented by: Michelle L. Santee

Jet Prop Isian Lawretory, California Institute of Technology, USA

Masatomo Fujiwara¹, Gloria L. Manney^{2, 3}, Lesley J. Gray^{4, 5}, and the S-RIP team

¹Hokkaido University, Japan; ²NorthWest Research Associates, USA; ³New Mexico Institute of Mining and Technology, USA; ⁴University of Oxford, UK; ⁵NCAS, UK

25th SPARC Scientific Steering Group Meeting, 16 – 18 October 2017, Incheon, South Korea



http://www-mete.kugi.kyoto-u.ac.jp/SPARCjws2017/index.html

Joint SPARC Dynamics & Observations Workshop QBOi, FISAPS & SATIO-TCS

October 9 (Mon) – 14 (Sat), 2017 Kyoto University, Kyoto, Japan

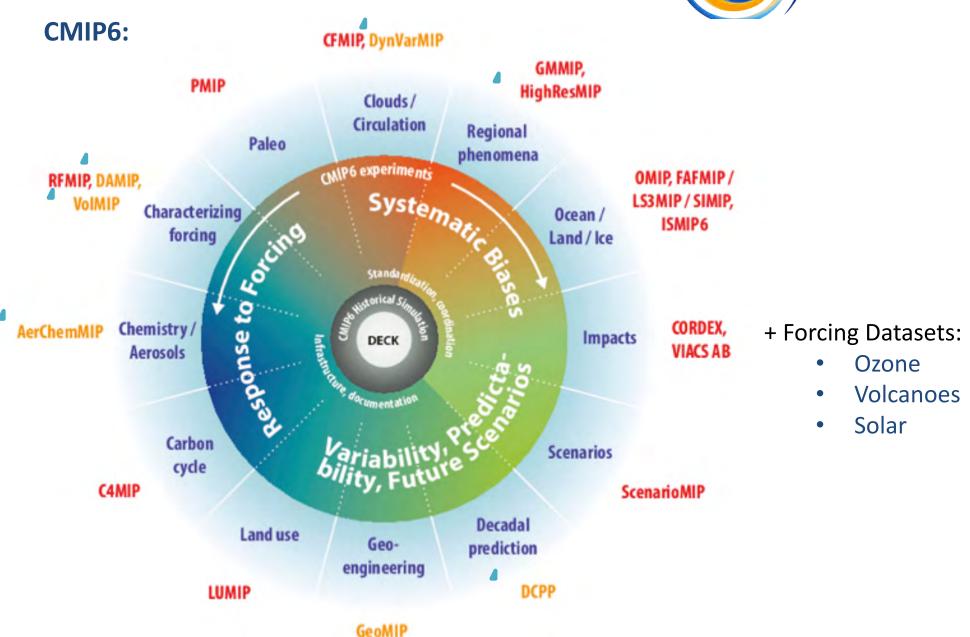
- 74 participants; 59 oral presentations, 18 posters
- 2-day plenary sessions; nearly 2-day sessions / each WS
- enough time of discussions (breakout and plenary)



Joint SPARC Activity Workshops provide opportunities to communicate among SPARC Activities and to advance scientific understanding

SPARC's CMIP6 contributions





Advancing SPARC's Whole Atmosphere Perspective through Activities

(WCRP guidance for SPARC to become the atmospheric arm of WCRP)



Atmospheric Temperature Changes and their Drivers

- Extended scope, now from troposphere to mesosphere
- SPARC/IGAC Chemistry-Climate Interactions (CCMI)
- Extended scope to troposphere (CCMVal -> CCMI)

Emerging Activities

- Stratospheric And Tropospheric Influences On Tropical Convective Systems (SATIO-TCS)
- Short-lived climate forcers (SLCF) (is evolving in liaison with IGAC and GAW)

First thoughts on new Atmospheric Dynamics Activity

Linking atmospheric dynamics and surface extremes

We are looking for scientists (and Data Assimilation Working Group in particular) to be identifying strong science themes relevant for SPARC

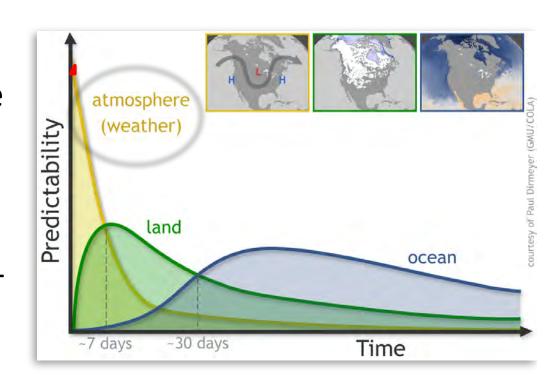
This workshop is an opportunity for DA to think about merging with S-RIP community in the future on a new science theme

Opportunity: SPARC's contribution to WCRP/WWRP/THORPEX S2S Project



SNAP activity is successfully contributing:

 Aim: Understanding how we can make use of coupling between the stratosphere and troposphere to improve prediction capability on subseasonal to seasonal timescales.



Opportunity for SPARC to collaborate across activities (including Data Assimilation Working Group) to advance our understanding of role of untapped atmospheric sources of predictability on S2S timescales.

SPARC Capacity Development



JOINT PLANNING STAFF (JPS)

WMO/WCRP is under Review

JOINT SCIENTIFIC COMMITTEE (JSC)

WCRP MODELLING ADVISORY COUNCIL (WMAC)

WCRP DATA ADVISORY COUNCIL (WDAC)

WORKING GROUPS ON:

SUBSEASONAL TO INTERDECADAL PREDICTION (WGSIP) NUMERICAL EXPERIMENTATION (WGNE)

COUPLED MODELLING (WGCM)
REGIONAL CLIMATE (WGRC)



CRYOSPHERE-CLIMATE



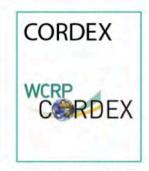
OCEAN-ATMOSPHERE



LAND-ATMOSPHERE



TROPOSPHERE-STRATOSPHERE



REGIONAL CLIMATE DOWNSCALING

GRAND CHALLENGES



CLOUDS, CIRCULATION AND CLIMATE SENSITIVITY

REGIONAL SEA-LEVEL CHANGE AND COASTAL IMPACTS

CARBON FEEDBACKS IN THE CLIMATE SYSTEM

NEAR-TERM CLIMATE PREDICTION

MELTING ICE AND GLOBAL CONSEQUENCES

WATER FOR THE FOOD BASKETS OF THE WORLD

UNDERSTANDING AND PREDICTING WEATHER AND CLIMATE EXTREMES

WMO/WCRP reviews:

- Wide range of possible options from major reorganisation to continuing evolution
- Makes longer term planning impossible
 - Any major reorganization will most likely take several years and will involve the scientific community
 - Review panel will send its report to the Sponsor's next week
 - Report hopefully available for public comments (~end of 2017)
 - WCRP leadership currently working on developing new science questions/strategic plan
- SSG's main view is to go steadily could involve:
 - Leaving some SSG seats empty
 - SSG will be ready for a discussion as soon as there is firm information
 - Flexible approach to final session of General Assembly

SPARC GA2018 in Kyoto 1-5 October 2018

Miyako Messe



LOC co-chairs

Kaoru Sato (U Tokyo), Masato Shiotani,

Shigeo Yoden (Kyoto U)

Dates and Venue

- Date: 1-5 October 2018

 (Registration starts in PM of 30 September)
- Venue: Kyoto City
 - Miyakomesse (http://www.miyakomesse.jp/english/)

Notes:

- after iCACGP/IGAC Science Conference at Takamatsu City on 25-29
 September 2018
- In parallel with the 2018 Joint Belmont forum/JPI-Climate meeting
- Rooms available for SPARC Activity meetings (Sunday afternoon 9/30, Wednesday afternoon (10/03) and Saturday morning (10/06)







Important dates (unified with IGAC)

- SPARC
 Stratosphere-troposphere
 Processes And their Role in Climate
- Themes of the GA will be announced soon
- Abstract submission
 starts on ~9 January (tbd)
 ends on 31 March
 (ends on 16 March for travel support applicants)
- Registration

 Early-bird registration
 starts in the middle of April 2018 (tbd)
 ends on 30 June 2018

 Standard registration

 ends on 31 August 2018
 On-site registration is possible

Themes for the 2018 SPARC General Assembly



- Climate Prediction from Weeks to Decades
- Role of Atmospheric Dynamics for Climate Variability and Change
- Connections of Atmospheric Composition and Chemistry to Weather and Climate
- Atmospheric Impacts and Interactions related to Tropical Processes
- Advances in observation and reanalysis datasets
- SPARC Science for Society

Thank You!

