SPARC Workshop 6/7 February 2012
Zürich, Switzerland

Time and date:
Monday, 6 February 2012, 9:15, to 7 Tuesday 2012, 12:15

Location:
Swiss Federal Institute of Technology Zürich (ETH)
Main building (HG), Rämistrasse 101
Floor G, Room HG G60 (Semperaula)

Participation:
Free of charge. Participation of students and other young scientists encouraged. Please inform Anke Witten at the SPARC Office (office@sparc-climate.org) (by 31 January, as food and beverages will be provided).

See poster session on Monday evening and contribute your work!

Monday, 6 February 2012 (09.15 -17:15)

08:30-09:15: Registration

1. Introduction (09:15-09:30)
   Welcome and aim of the workshop (Tom Peter, Ted Shepherd)

2. Long-term climate variability (09:30 – 11:30)
   Jürg Beer (EAWAG, Dübendorf)
   Longterm climate variability attributable to solar variability

   Eugene Rozanov (PMOD, Davos)
   Potential decrease of the solar activity and its implications for the future climate and ozone layer

   Stefan Brönnimann (Univ. Bern)
   Climate variability caused by volcanic eruption
SPARC Workshop and First Afternoon of SSG Meeting

Cont’d
Christoph Appenzeller (MeteoSwiss)
Overview over the Swiss Climate Change Scenarios CH 2011

Coffee break (11:30-11:50)

3. Stratospheric trace gases and their trends

Greg Bodeker (Bodeker Scientific, New Zealand)
Differences in ozone changes between southern and northern midlatitudes

Johannes Staehelin (ETHZ)
Long-term changes of stratospheric ozone deduced from data analyses from Swiss and global measurements

Lunch
Sandwiches (13:00-14:15)

Klemens Hocke (University of Bern)
Water vapour measurements and changes

Stefan Reimann (Empa Dübendorf)
CFC, HCFCs, HCFs: Sources and long-term trends as deduced from ground-based measurements

Joan Alexander (Boulder, CO)
Gravity waves and their effects on stratospheric dynamics

Coffee break (15:45-16:00)

Veronika Eyring (DLR, Germany)
Modelling of stratospheric ozone changes: Experiences from CCMVal

Ted Shepherd (University of Toronto)
Stratosphere-troposphere dynamics and climate change

Thomas Peter (ETHZ)
The atmospheric ice phase

4. Poster session (room to be announced, 17:30-19:30)

Poster contributions are encouraged.
Opportunity to discuss your work with world-leading scientists.

Please inform Anke Witten at the SPARC Office (office@sparc-climate.org) (by 31 January), in case you wish to present a poster.
Tuesday, 7 February 2012 (09:00-12:15)

5. UT/LS and related process (09:00-10:30)
   Andrew Gettelmann (NCAR, Boulder, Co)
   The UT/LS and its role in climate
   Michelle Santee (JPL)
   Trace gases, their variability and changes deduced from satellite observations
   Heini Wernli (ETHZ)
   Processes near the extratropical tropopause and their relevance for SPARC

   Coffee break (10:30-10:50)

6. Modelling of tropospheric trace gas variability
   Isabelle Bey (ETHZ)
   Selected results from global numerical tropospheric chemistry simulations
   Andrea Stenke (ETHZ)
   Tropospheric chemistry modeling by SOCOL
   Dominik Brunner (Empa, Dübendorf)
   Selected regional tropospheric chemistry modeling results

   End at 12:20

Lunch
Sandwiches (12:20-13:30)
SPARC SSG Meeting, 2012, Zürich

Workshop Participants are invited to participate in the first afternoon

Time and date:
Tuesday, 7 February 2012, 14:00, to 10 Friday 2012, 15:00

Location:
Swiss Federal Institute of Technology Zürich, (ETHZ)
Main building (HG), Rämistrasse 101
Floor G, Room HG G60 (Semper aula)

Tuesday, 7 February 2012 (13:30 -17:15)

1. Introduction (14:00-14:30)
   1.1. Welcome (SPARC Co-chairs)
   1.2. Logistical and practical information (Joh. Staehelin)
   1.3. Discussion of agenda (Ted Shepherd)

2. WCRP/SPARC update (14:30-15:30)
   2.1. OSC and SPARC perspective (14:30-15:00)
       (Greg Bodeker and Ted Shepherd)
   2.2. WCRP update (15:00-15:30)
       JSC meeting after OSC (representative of JSC or JPS)

Coffee break (15:30-16:15)
Including a short Executive Session for SSG members

3. Summary of local workshop (16:15-17:15)
   60 min, including resulting discussion (Thomas Peter)

End of programme
## Contribution Poster Session

<table>
<thead>
<tr>
<th>Name</th>
<th>First name</th>
<th>Institution</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>Anet</td>
<td>Julien</td>
<td>IAC, ETH Zürich</td>
<td>How does the solar variability affect global climate?</td>
</tr>
<tr>
<td>Arfeuille</td>
<td>Florian</td>
<td>IAC, ETH Zürich</td>
<td>Uncertainties in modelling the stratospheric warming following Mt. Pinatubo eruption</td>
</tr>
<tr>
<td>Brugnara</td>
<td>Yuri</td>
<td>Inst. of Geogr., U Bern</td>
<td>Solar signal in long upper-air statistical reconstructions</td>
</tr>
<tr>
<td>Cirisan</td>
<td>Ana</td>
<td>IAC, ETH Zürich</td>
<td>Impact of modified sulphate aerosol concentrations on northern hemisphere mid-latitude cirrus clouds</td>
</tr>
<tr>
<td>Dällenbach</td>
<td>Kaspar</td>
<td>IAC, ETH Zürich</td>
<td>Chlorine activation by volcanic aerosols</td>
</tr>
<tr>
<td>Emmenegger</td>
<td>Lukas</td>
<td>EMPA</td>
<td>Development, deployment and validation of a QCL spectrometer for NO2 measurements at mountain sites</td>
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<tr>
<td>Engel</td>
<td>Ines</td>
<td>IAC, ETH Zürich</td>
<td>Towards heterogeneous ice and NAT nucleation rates based on PSC backscatter measurements onboard the CALIPSO satellite</td>
</tr>
<tr>
<td>Jacques</td>
<td>Martin</td>
<td>KLIMET - U Bern</td>
<td>Exploring the Summertime Climate Variability over Southern South America during the 20th Century</td>
</tr>
<tr>
<td>Keller</td>
<td>Christoph</td>
<td>EMPA</td>
<td>Inverse modelling of European halogenated greenhouse gas emissions using FLEXPART</td>
</tr>
<tr>
<td>Lienhard</td>
<td>Daniel</td>
<td>IAC, ETH Zürich</td>
<td>Impeded Water Uptake of Viscous Organic Aerosol Particles</td>
</tr>
<tr>
<td>Pandey</td>
<td>Shubha</td>
<td>IAC, ETH Zürich</td>
<td>The Transport of Peroxy Acetyl Nitrate (PAN) to High Alpine Site from Different Source Regions</td>
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<tr>
<td>Peter</td>
<td>Thomas</td>
<td>IAC, ETH Zürich</td>
<td>New soundings of cirrus clouds and upper tropospheric humidity</td>
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<td>Pinti</td>
<td>Valeria</td>
<td>IAC, ETH Zürich</td>
<td>Ice nucleation properties of volcanic ash from Eyjafjallajökull</td>
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<tr>
<td>Schnadt</td>
<td>Christina</td>
<td>EMPA</td>
<td>Missing Stratospheric Ozone Decrease at Southern Hemisphere Middle Latitudes after Mt. Pinatubo: A Dynamical Perspective</td>
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<tr>
<td>Shapiro</td>
<td>Anna</td>
<td>PMOD Davos</td>
<td>Uncertainties of the SSI (Spectral Solar Irradiance) data and middle atmosphere response</td>
</tr>
<tr>
<td>Sheng</td>
<td>Jianxiong</td>
<td>IAC, ETH Zürich</td>
<td>Parametric Studies of Mt. Pinatubo Eruption</td>
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<tr>
<td>Skerlak</td>
<td>Bojan</td>
<td>IAC, ETH Zürich</td>
<td>A global ERA-Interim Climatology of Stratosphere-Troposphere Exchange</td>
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<tr>
<td>Song</td>
<td>Mijung</td>
<td>IAC, ETH Zürich</td>
<td>Liquid-liquid phase separation and morphology of internally mixed dicarboxylic acids/ammonium sulfate/water particles</td>
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<tr>
<td>Stähelin</td>
<td>Johannes</td>
<td>IAC, ETH Zürich</td>
<td>Surface ozone changes in Switzerland in relation to emission changes and climatic factors</td>
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<tr>
<td>Stauffer</td>
<td>Johannes</td>
<td>IAC, ETH Zürich</td>
<td>Comparison of Ozone Measurements by Ozone Sondes and by MOZAIC bases on Back Trajectories</td>
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<tr>
<td>Tummon</td>
<td>Fiona</td>
<td>IAC, ETH Zürich</td>
<td>Aerosol-climate interactions over southern Africa: Synoptic types and interannual variability</td>
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<tr>
<td>Zellweger</td>
<td>Christoph</td>
<td>EMPA</td>
<td>Summing-up audit results of the World Calibration Centre for Surface Ozone (WCC-Empa) obtained during the past 15 years</td>
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<tr>
<td>Zellweger</td>
<td>Christoph</td>
<td>EMPA</td>
<td>Surface Ozone Variability and Trends at the Global GAW Stations Assekrem (Algeria), Bukit Koto Tabang (Indonesia) and Mt. Kenya (Kenya)</td>
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</tbody>
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