

**Second SPARC/IOC/IGACO-O3/NDACC (SI²N) workshop on
Past Changes in the Vertical Distribution of Ozone
Columbia, Maryland, Mon 16 – Wed 18 April 2012**

The aims are to review progress and to agree and define the structure of the SI²N assessment.

Day 1:

Invited talks describing current situation. These talks need to be well structured and will rely on group input. Where possible, base them on reports / papers that the SI²N assessment will be based on. Poster boards will be available so individual studies can be presented.

Introductory / background

0815	Overview of initiative and scope of meeting	SI ² N chairs
0900	Temperature trends	Zou/ Long

Status reports

0930	Long-term changes in the troposphere and lower stratosphere 1. progress with homogenising the ozonesonde record 2. updated analyses and comparisons <i>including a break for coffee from 1000-1030</i>	Smit / Oltmans Logan
1115	Long-term changes in the stratosphere and upper stratosphere 1. Extending the SAGE record – progress and prospects 2. SBUV v8.6 – extent, quality and prospects	Wang/Tamminen/Zawodny McPeters
1230	Lunch	
1330	Long-term changes in the stratosphere and upper stratosphere, cont. 3. Consolidating and improving the Umkehr record 4. Results from NDACC	Petrovavlovskikh Kurylo
1430	Shorter term detailed satellite measurements 1. Ozone results in the SPARC Data Initiative 2. Ozone measurements by satellite over the past 10-15 years <i>including a break for tea from 1515-1545</i>	Froidevaux van Roozendaal
1615	Merging ozone measurements Pitfalls & progress of merging data from different instruments	Bodeker
1645	Measurement comparisons – performed and planned? Comparisons of satellite and ground-based measurements	Hubert
1715	Plans for Day 2	SI ² N chairs

Day 2:

Break-out groups, with short 'catch-up' plenaries. Important to identify issues not currently picked up.

morning

To start with the break-out groups will be based on SI2N groups. They need some time on their own to sort out the workplan for the coming year.

afternoon

Break-out groups based on:

- (i) tropos/UTLS;
- (ii) mid & upper strat;
- (iii) shorter term meas.

Discussion of (i) and (ii) should focus on assessing and demonstrating the errors associated with producing long-term data sets. The focus for (iii) should be identifying what the recent satellite and non-satellite can offer in terms of process understanding – for example, what is the value of the high resolution ozone data in studying downward propagation / transport in the UTLS? What can they say about interannual dynamic changes in the UTLS which cause long-term changes in ozone and other constituents?

We may also need small groups on merging data sets and/or to discuss the plans to be presented on the final morning.

Day 3:

The overall aim is to agree the process, structure and contents of the SI2N assessment. Our aim is still that it should rely on papers and peer-reviewed technical reports.

morning

Plenary discussing plans for coming years;

Presentation of suggested plan by co-chairs followed by discussion. Need to agree format of community assessment and preparation of underlying documents. Preferably identify potential authors.

Main meeting ends at lunch.*afternoon:*

smaller group meeting (chairs, group leaders, a few others)

If any groups want to continue discussions or work together in the afternoon, they should let us know asap.