

SOSST Working Groups

Start a dialogue about team organization...

SOSST

Solar Occultation Satellite Science

TEAM

**A collaborative approach to science with
occultation measurements**

- **Climate applications**
- **Science with and beyond Aura**

**How will we ensure the integrity of
climate data records?**

SOSST Working Groups

Algorithm.....	Larry Gordley, Jerry Lumpe
Validation.....	Derek Cunnold, Ellis Remsberg
Data Products.....	Gloria Manney, Cora Randall
Aerosols/Clouds.....	Sundar Christopher, Brian Toon
Modeling.....	David Rind, Ross Salawitch
UT/LS.....	Bill Randel, Chip Trepte
Future Technology.....	Sam Yee, Joe Zawodny

Algorithm Working Group

CoChairs: Larry Gordley & Jerry Lumpe

**Explore retrieval issues
common to different instruments**

Error Analyses

- Definition of error bars
- Line-of-sight inhomogeneities
- Cross-sections
- Solar refraction
- Cloud/aerosol interference

Iterate with Validation working group

Quantify “trend-quality” capabilities in SOSST data

Validation Working Group

CoChairs: Derek Cunnold & Ellis Remsberg

Coordinate validation of different instruments

Establish data base of correlative measurements

Streamline overlapping activities

Iterate with Algorithm working group

Focus on UTLS validation

Validate “trends” in SOSST data, esp. with combined instruments

Data Products Working Group

CoChairs: Gloria Manney & Cora Randall

Develop a unified SOSST data base

Interact with Algorithm & Validation working groups

Establish baseline data sets for other instruments

Validation

Science Investigations

Define Climate Data Records

Aerosols & Clouds Working Group

CoChairs: Sundar Christopher & Brian Toon

**Explore capabilities of SOSST data for
aerosol & cloud physics**

Aerosol size distributions

**Convective transport of forest fire smoke to the
stratosphere**

UT/LS cloud climatologies

Combining with Aqua/Terra/Aura data

Modeling Working Group

CoChairs: David Rind & Ross Salawitch

**Define and implement uses of
SOSST data in modeling activities**

How can the SOSST data best be used to validate models?

How can we encourage more use of the SOSST data by the modeling community?

UT/LS Working Group

CoChairs: Bill Randel & Chip Trepte

**Explore using SOSST data
to probe the UT/LS**

Limitations and potential of SOSST data

Contribution to climate investigations

Baseline SOSST climatologies of the UT/LS.

Future Technology Working Group

CoChairs: Sam Yee & Joe Zawodny

**Propose new instruments or
instrumental techniques**

What analyses are required to quantify the stability of the Aura, and later OMPS, instruments for obtaining trend-quality data?

How do we move beyond traditional solar occultation measurements to achieve trend-quality, but global, data?

Working groups should be enhancement to ongoing science – not diversion from it.

Sign up today to participate in any working group(s)

Plan meeting time if not Thursday 2:30-4:30