Tropospheric Working Group – Air Quality from Space (Tuesday, October 2, 2007)

Conveners: Bryan Duncan (Bryan.N.Duncan@nasa.gov)
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Objectives and Goals
1) What's being done now for Air Quality?
2) What are the limitations and strengths of data from satellites for Air Quality?
3) Stimulate ideas/science/collaborations.
4) Give feedback to algorithm people.

Preliminary Agenda

8:30 am *Bryan Duncan* – Review objectives, goals and Working Group agenda (<5 min)

8:35 am *Ken Pickering/Joseph Vaughan/Shobha Kondragunta*

What are the satellite data needs of the air quality community? (20 min)

8:55 am *Mian Chin*

Possibilities and challenges in using satellite aerosol data for air quality. (15 min)

9:10 am *Randall Martin/Folkert Boersma*

Trace gases introduction (15 min)

OMI (O_3, H_2CO, NO_2, SO_2, aerosols)

9:25 am *P.K. Bhartia* – OMI ozone – boundary layer sensitivity (5 min)

9:30 am *Bob Chatfield* – Lower tropospheric ozone from space: current situation, new prospects – OMI-AIRS tropospheric ozone (5 min)

9:35 am *Jassim Al-Saadi* – Assimilation of OMI ozone for AQ prediction

9:40 am *Dylan Millet* – OMI H_2CO and biogenic emissions (5 min)

9:45am Discussion #1 – *Bryan Duncan* – Detection of Boundary Layer Trace Gases (20 min)

BREAK (15 min)

OMI (O_3, H_2CO, NO_2, SO_2, aerosols) - continued

10:20 am *Nick Krotkov* – OMI SO_2 over China (5 min)

10:25 am *Ron Cohen* – OMI NO_2 – urban and agriculture NO_x emissions (5 min)

10:30 am *Henk Eskes* – The use of near-real time OMI NO_2 in air quality forecasts for the Netherlands and Europe **(**5 min**)**

10:35 am *Joseph Vaughan* – Regional air quality forecasting system, AIRPACT (5 min)

10:40 am Discussion #2 – *Bryan Duncan* – Retrieval and AQ issues for OMI NO_2 (20 min)

OMI (O_3, H_2CO, NO_2, SO_2, aerosols) - continued

11:00 am *Omar Torres* – Overview of OMI aerosol products & limitations (5 min)

11:05 am *Ben Veihelmann* – Air quality data from OMI aerosols measurements using the multi-wavelength algorithm **(**5 min**)**

TES (CO, O_3)

11:10 am *Juying Warner* – AIRS and TES CO fusion (5 min)

11:15 am *Jassim Al-Saadi* – TES and surface measurements for AQ (5 min)

11:20 am *Greg Osterman* – Air quality application of satellite data (5 min)

11:25 am *Changsub Shim* – Mexico City air quality (5 min)

11:30 am *Sunita Verma/John Worden* – Global impact of boreal fires (5 min)

11:35 am Discussion – *Annemarie Eldering* – Future work with Aura data for Air Quality (25 min)

noon Adjourn