

Atmospheric Composition Constellation

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Activity Status

- ACC-7 Meeting (Columbia, Md., 21-22 June, 2011): Outcomes
 - Volcanic Ash Monitoring. Recent eruptions of Icelandic volcanoes have demonstrated the utility of space-based measurements of ash concentration and height in constraining forecast models and to provide early warnings (alerts) to enhance aviation safety.
 - The basic goals of the project have been achieved and it is now an ongoing task.

Activity Status



- Air Quality Constellation. Recommendations developed in the position paper were endorsed at SIT-26. In the near-term:
 - CEOS agencies will endeavor to have 1 or 2 people be part of the relevant air quality geostationary satellite mission science teams (Sentinel-4, GMAP-Asia, MEST MP-GEOSAT, Geo-CAPE) to enhance coordination
 - ACC will organize an air quality OSSE activities workshop, including the intercomparison of existing retrieval algorithms
 - ACC will coordinate a societal benefit area value assessment of air quality observations



Activity Status

– Total Ozone Data Set Intercomparison

- There are 3 independent, long-term data sets of comparable quality - Brewer-Dobson ground-based network, SBUV/TOMS, and GOME/OMI/SCIAMACHY – with errors of the same order
 - None of them can be identified as the “reference” data set
- There was no agreement on the need to merge total ozone data sets into a harmonized product
 - Those present stated that they would prefer to use 3 different data sets with very clear error characteristics rather than a merged long term data set



Activity Status

- Total Ozone Data Set Intercomparison (cont'd.)
 - ACC will coordinate collaboration to further characterize the errors and uncertainties in these data sets
 - Working with modelers, we will address some of the science issues, such as ozone's seasonal cycle, ozone response to volcanic eruptions, and the detection/attribution of ozone recovery
 - ACC will hold a follow-up workshop on total ozone error characterization next spring
 - To be held in conjunction with the next SPARC ozone profile initiative meeting, scheduled for April/May 2012 in the Washington, DC area



Activity Status

- CEOS response to GCOS IP. ACC has supplied draft responses for its actions
 - ACC membership and the extended community will review templates and work towards completion of the responses
 - Cloud and aerosol parameters were not be addressed by ACC as these issues are covered by ongoing activities (e.g. GEWEX); ACC has a trace gas focus
 - ACC will assist Mitch Goldberg to identify appropriate experts to review these actions

Activity Status



- Atmospheric Composition Portal (ACP)
 - Now formally under the aegis of WGISS
 - ACP requests participation of ACC membership on its Science Advisory Group to enhance the portal's utility to the community