

Atmospheric Composition Constellation (ACC)

ACC-6 – 09/10 Sep – Oxford

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ACC Objectives

- Establish a framework for long term coordination among the CEOS agencies where the “Constellation” will identify specific opportunities for meeting science and application requirements
- Collect and deliver data to improve predictive capabilities for coupled changes in the *Ozone Layer, Air Quality, and Climate Forcing* associated with changes in the environment
- Objectives meet participating Agency priorities and are aligned to the GEO SBA’s (*Health, Climate, Energy, Ecosystems*)
- Objectives will be achieved through the following steps:
 - Develop a Requirements and Gap Analysis based on in-orbit and up-coming missions
 - Demonstrate how Constellation data can add value to data products serving the GEO SBA’s through Projects
 - Develop rationale, strategy, and standards for collaboration and for possible new requirements. Collaborate on future missions

Progress to Date

- ACC initiated several projects to demonstrate the Constellation concept. Projects involve its international partners using multiple missions. Projects are being selected for near term results and aligned with the GEO SBAs
- Projects are showing added value using constellation data over data used separately. Now in their implementation phases
 - Aircraft volcanic ash warning using Envisat and Aura: Hazards (ESA lead)
 - ACC Web-portal – based on WDC at DLR (DLR/NASA lead)
 - Workshop on the impacts of data gaps on climate modelling held at GISS NYC, USA, October 15-17, 2008 - Report Published
 - Workshop on Air Quality Monitoring from Space ESRIN, Italy, June 15-17, 2009 – Report Published – position paper in preparation for a real AQ Constellation
 - Starting discussions on Climate Variables/GCOS at last Meeting in Montreal (March 2010)
- Completed *Requirements and Gap Analysis* for existing and upcoming AC missions: Cross-cutting

Progress to Date -2

- **This ACC Meeting at Oxford:**
 - **ACC Activities/Projects Review**
 - **Get an overview of ongoing Space Agencies Activities on Climate Data generation**
 - **Is there a need for international (ACC) cooperation on this?**
 - **If yes - can we identify concrete projects (e.g. O3 or GHG ECV)?**