

ACC-9 Report

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WGCV-36
Shanghai, May 13-17, 2013

The ninth meeting held at EUMETSAT April 18-19, 2013

Organised by ESA (C. Zehner) and NASA (J. Al-Saadi, R. Eckman)

~20 participants from China, Europe, Korea, and the US

Cal/Val representation: ACSG (Chair, Vice-chair), GSICS (Research Working Group Chair)

Topics: Total ozone ECVs (Europe and US), Geostationary AQ constellation, and Volcanic Ash Alert

NASA and ESA released TOZ ECVs

- NASA/GSFC MEaSURES SBUV ~30 year timeseries
- ESA CCI GOME/SCIAMACHY/GOME-2

Comparisons on both ECVs were made using the same groundbased dataset (and processing system) yielding different very different results

- **The approach was put into question as one team's own results disagreed with the findings**
- **In the resulting discussion, it was clear (and surprising!) that no best practise/protocol existed for the comparison**
- **Due to the different findings, merging of the dataset will not proceed**
- **Uncertainty estimates still under development**

The way forward is currently unclear, currently putting the Total Ozone QA4EO showcase of WGCV into question

Constellation in the early 2020s to be constituted of European (Sentinel 4), Japanese (GMAP), Korean (GEMS) and US (TEMPO, GEO-CAPE) platforms

Activity lead by J. Al-Saadi (NASA)

Discussion focussed on:

- Platform/Constellation plans
- Pre-launch calibration (UV)
- Post-launch characterisation and mission interoperability
- AQ validation approaches

WGCV (ACSG) pertinent areas:

- Definition of the minimum calibration requirements
- Characterisation best practise required
- Interoperability (GSICS)
- AQ in-situ instrumentation best practise efforts welcomed

Meeting was useful for ACSG (8th attended by ACSG to date) at many levels

- Clearly best practise needed for reproducibility of results for past and future activities
- Calibration, characterisation and validation coordination for AQ constellation

Issues remains with the QA4EO showcase due to delays/questions with the ACC ozone activity