

CEOS/Working Group on Cal/Val Report

Changyong Cao, Chair

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CEOS/WGCV

WGCV 2008 Category 1 Actions

Leading GEO DA-06-02: Data quality assurance for GEOSS (3 cat. 1 actions)

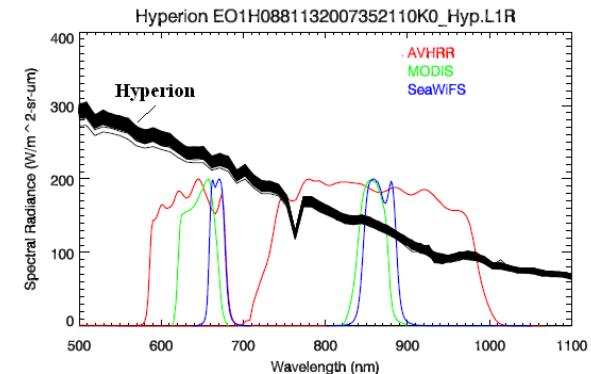
- **GEO-CEOS Workshop**, Gaithersburg, May 6-8, 2008
 - Organized by ESA; Hosted by NIST/NOAA/NASA
 - Endorsed by the CEOS SIT Chair and GEO Director
 - Reported to GEO in the task sheet (May 2008)



- Data quality assurance **guidelines** (led by ESA, USGS, and NASA)
 - Ten key guidelines developed (currently under final review, **will be delivered at WGCV29 on Sept 30, 2008**)
 - **CEOS action: Approve/Accept the document**

- **Dome C calibration campaign**

- Results summarized in the **IGARSS08** paper (July, 08) (delivered to the CEOS repository)
- Additional work at NOAA on SeaWiFS at Dome C
- Transfer SeaWiFS stable lunar calibration to AVHRR and other sensors at Dome C (**Research to Operations**)



WGCV 2008 Category 1 Actions

CL-06-02: Key climate data sets from satellites (GSICS collaboration)

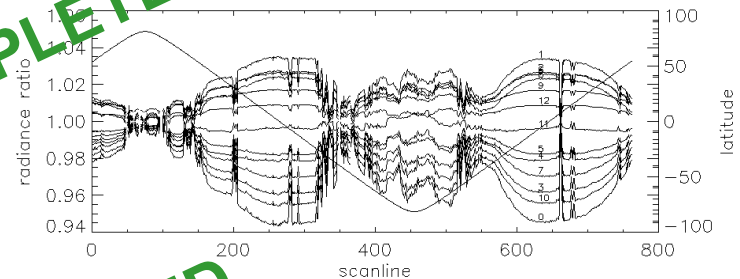
Action: Measurement consistency for 1-5 km sensors. Recommendations & strategies for recalibrating historical satellite data (Support Climate Actions: T-4, T-3, O-17).

- ✓ Ottawa workshop held in June 2008 at CCRS (NOAA, NASA and USGS)
- ✓ CCRS/CSA will lead the 1KM AVHRR reprocessing, supported by NOAA, USGS, & NASA
- ✓ Early preparation for the calibration session at the AVHRR workshop in November 08.

CL-06-01: Reanalysis and Reprocessing (GSICS collaboration)

Action: Infrared sounder: Historical HIRS spectral calibration using IASI/AIRS

- Paper presented at SPIE in August 08, (delivered to the CEOS repository)
- Journal paper submitted



DA-07-01: Global DEM interoperability

Action: BNSC/UCL lead

Workshop held in Beijing, hosted by IRSA/CAS

Guideline paper developed and delivered to the CEOS repository

Other Actions (cat 2 & 3)

DA-06-02: Data quality assurance

Action: Benchmark mission coordination (Climate Action A-5).
CLARREG/TRUTHS (NASA and BNSC/NPL).

Action: Radiometric reference standard report (NOAA/NIST/IEEE)

Action: Preparation for the 2009 ground based cal/val campaign
International radiometer intercomparison (March 2009)

Invitation sent out to CEOS colleagues
CEOS Action: Request space agency support (\$)

EC-06-01: Integrated global carbon obs.

Action: Greenhouse gas workshop (CalTech, organized by
AC subgroup chair B. Bojkov)

EC-06-02: Ecosystem classification

Action: LPV (land product validation) session at WGCV29 (Sept. 2008)

DA-06-04: Data, Metadata, and products harmonization

Action: Land product harmonization

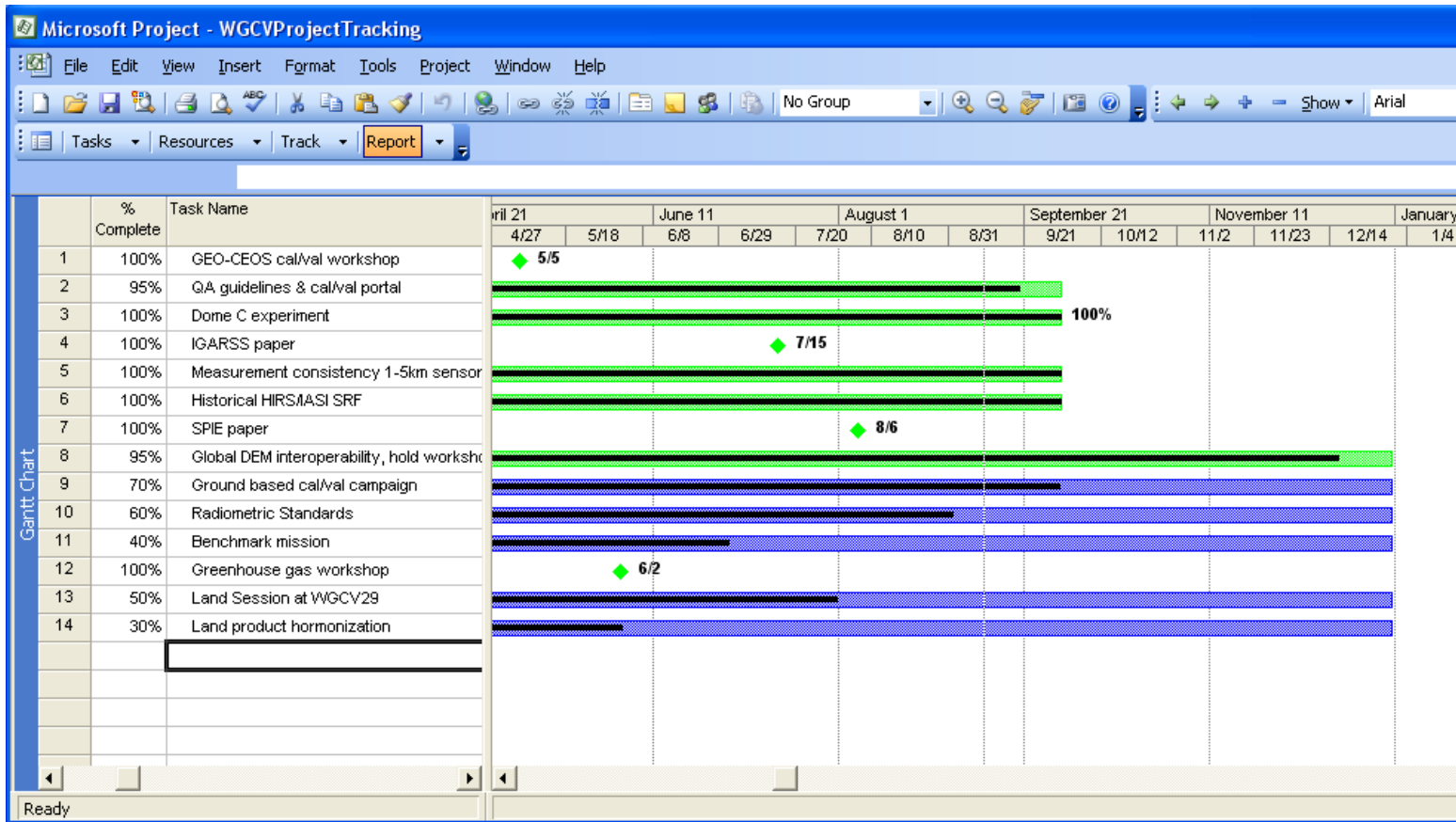


TXR & RSMAS BB

IVOS: The MIAMI-2009
Radiometer
Intercomparison



2008 WGCV Projects: Actions, Deliverables, and Milestones



Cat. 1

Cat. 2

All deliverables are available in the CEOS repository, and conference/journal papers.

Summary

- WGCV has completed all but one 2008 Category 1 actions (which will be completed by September 30), with good progress for Cat.2&3 actions.
- Will further look into collaboration opportunities with WGISS at WGCV29 (special land session).
- Request CEOS approval for the Data quality guideline document, and request space agency support for the 2009 radiometer intercomparison campaign.
- Ready to support the AVHRR workshop in November, 2008