
CEOS/Working Group on Cal/Val Report

Changyong Cao (NOAA) - Chair
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CEOS/WGCV

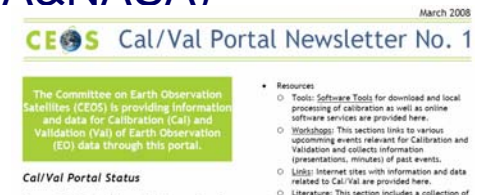
WGCV 2008 Category 1 Actions

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

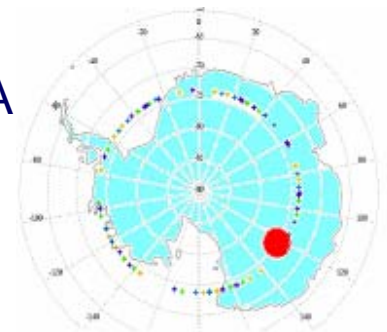
- 2nd GEO-CEOS Workshop, May 6-8, 2008, Washington DC
 - Organized by ESA & NIST; Hosted by NIST/NOAA/NASA
 - Endorsed by the CEOS/SIT Chair and GEO Director



- Data quality assurance framework & guidelines (led by ESA&NASA)
 - Draft document developed (see Appendix DA0602a&b)
 - Further development on the cal/val portal (ESA&USGS)



- Dome C calibration campaign
(multi-platform/sensor/agency/wavelength/frequency)
 - Participating agencies: NOAA,NASA,CNES,ESA,USGS,JAXA
 - Sensors involved: MODIS, AVHRR (1980-2007), Hyperion, SPOT, and ATSR, AMSR-E
 - Standard calibration procedure being developed by CNES
 - Calibration transfer study in progress at NOAA
 - Paper to be presented at IGARSS08 in July



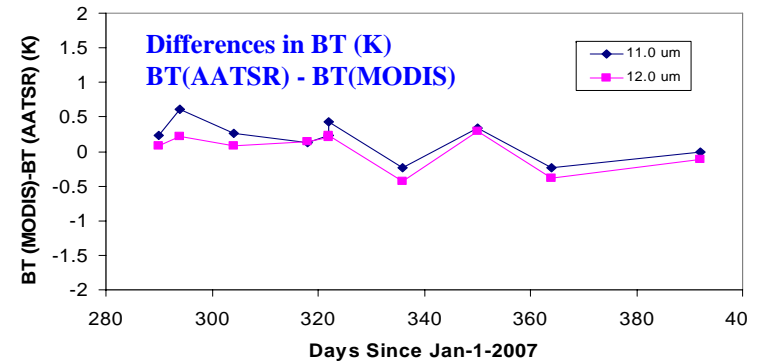
Dome C, Antarctica

WGCV 2008 Category 1 Actions (-continued)

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

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

- ✓ Participating agencies: NASA, NOAA, CSA/CCRS, ESA, USGS, CMA
- ✓ Clear sky radiance testbed for recalibration (NOAA)
- ✓ Ottawa workshop in June 2008 at CCRS (involves 3 NASA groups, NOAA, and USGS)

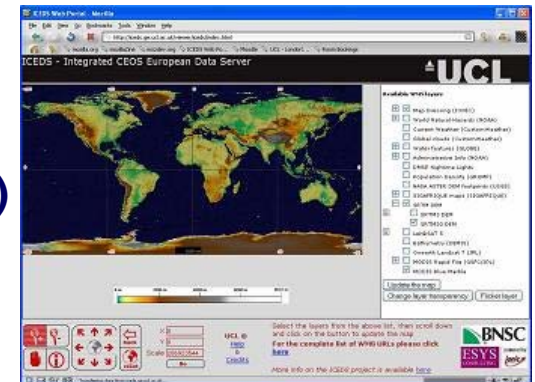


CL-06-01: Reanalysis and Reprocessing (collaboration with GSICS)

Action: Historical HIRS spectral calibration using IASI/AIRS
(in progress, paper to be presented at SPIE in August 08)

DA-07-01: Global DEM interoperability (led by BNSC/UCL)

Action: Develop guidelines&cal/val sites (see draft Appendix DA0701a&b); Request DEM data from several agencies (NASA/JAXA/CNES/DLR/ESA); Workshop in Beijing in July.



Other Actions (cat. 2 & 3)

DA-06-02: Data quality assurance

Action: Benchmark mission coordination (Climate Action A-5). CLARREO & TRUTHS (NASA & BNSC/NPL). Thanks to Martha for her help.

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

Action: 2009 ground based cal/val campaign (request space agency support)

EC-06-01: Integrated global carbon obs.

Action: Greenhouse gas workshop in May 08 (CalTech, organized by AC subgroup chair B. Bojkov)

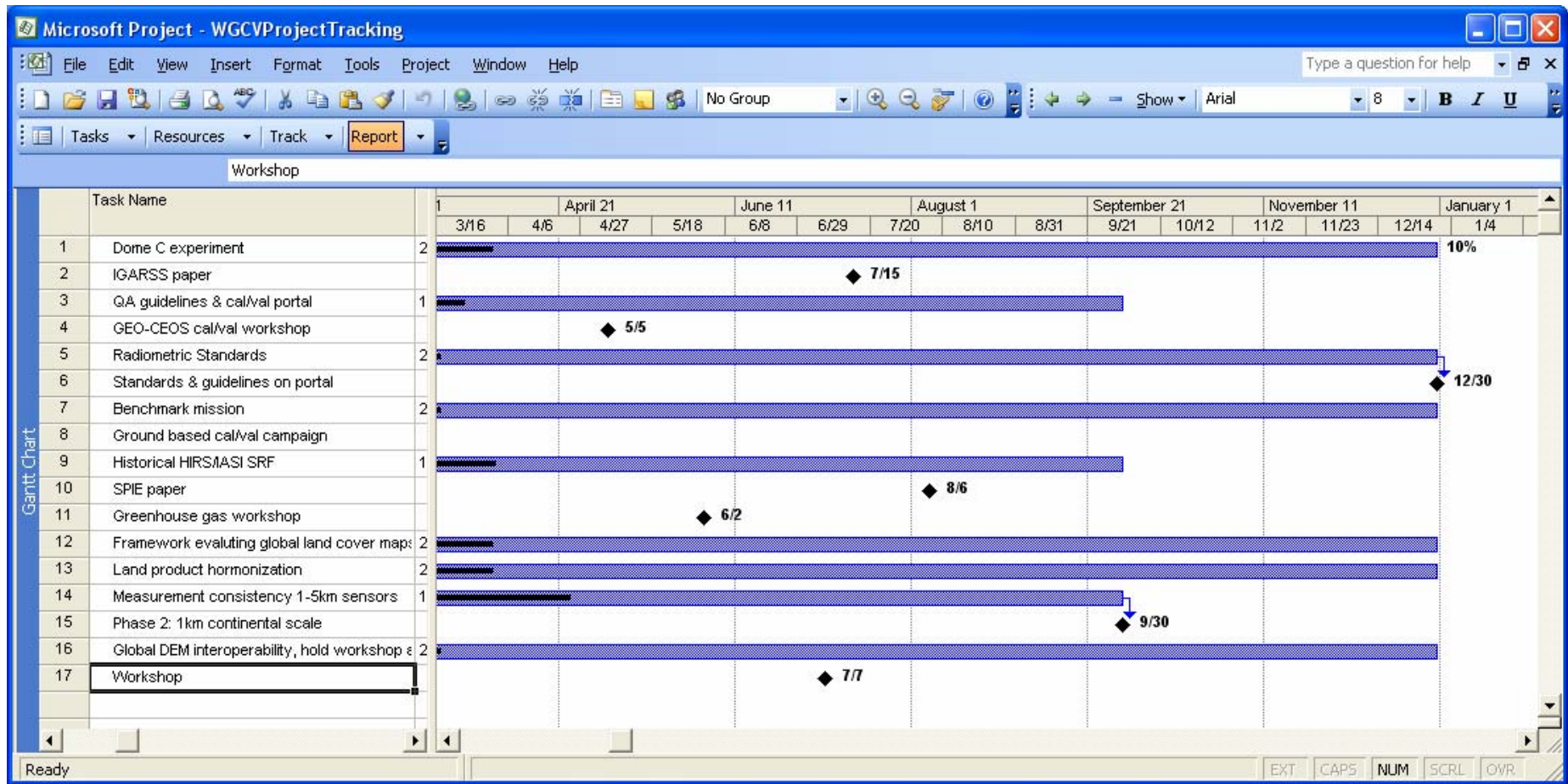
EC-06-02: Ecosystem classification

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

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

Action: Land product harmonization (report by J. Morissette at May workshop)

2008 WGCV Projects, Actions, Deliverables, and Milestones



WGCV28th & WGISS25th Joint Meeting

- Reported progress on the GEO tasks; confirmed the 2008 actions with POCs and participants
- CEOS/CEO (Ivan Petiteville) provided update on the CEOS/SIT actions
- Joint meeting sponsored by NRSCC/NSOAS/NMRSL
- Focus on radiometric reference standards; collaboration/coordination with standardizing bodies (ISO, IEEE, OGC, NIST, NPL, VNIIOFI)
- Identified eight initial CEOS cal/val sites & moon for stability monitoring
- Presented preliminary results of the Dome C calibration campaign
- Explored potential joint projects with WGISS, AC (cal/val sites) and LSI (standards) constellations, and the SEO
- More progress to be reported at WGCV29 (September 08, Avignon, sponsored by CNES/INRA)



Summary

- WGCV is making good progress supporting the GEO tasks.
- Projects, actions, milestones, and deliverables are clearly identified and tracked.
- Scientists from many space agencies are taking part in the Category 1 actions, which will be completed on schedule.
- Space agencies are encouraged to contribute to these actions by supporting the participating scientists.