

ESA-led Actions in CEOS Work Plan/s

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SIT-23
March 4-5, 2009
Cocoa Beach, Florida



COMPLETED 2008

Category 1 Actions:

CL-06-02_11

Action: Global datasets access for GlobCarbon (fAPAR, Leaf Area Index, vegetation growth cycle, fire), GlobColour (10-yr ocean color dataset) and Medspiration (long-term SST record from ERS-1/2 and Envisat), GlobGlacier

- Status: GlobColour & Medspiration: **COMPLETED** Data already accessible on the Web (<http://www.globcolour.info/>, <http://www.medspiration.org/>)
- GlobCarbon: Ten years (starting April 1998) of LAI, FAPAR, Burned surface from ATSR-2, AATSR, VGT1, VGT2 and MERIS are downloadable from the web through <http://www.globcarbon.info/>. **COMPLETED.**

EC-07-01_1

Action: ESA to release GlobCover data

- Status: **COMPLETED:** First Global Land Cover at 300 meters has been processed with MERIS data from 2005-2006 and is available to public since March 2008 (<http://dup.esrin.esa.int/projects/summary68.asp>)

Category 1 Actions (cont'd):

WA-06-07_2

Action: Preparation of TIGER activities for 2008-2010 in collaboration with CEOS and African partners

- Status: New TIGER implementation period proposed as a CEOS contribution to GEO WP 2009-2011: **COMPLETED**. Implementation Plan for phase II: **COMPLETED**. TIGER SC Committee Meeting held in UNESCO with participation of African Ministerial Council on Water: **COMPLETED**.

DA-06-02_2

Action: Data Quality Assurance Framework and Guidelines

- Status: Consensus documentary framework discussed through two workshops, released for comments during summer. It will be first proposed at SIT-22 . CAL/VAL Portal developed and open: **COMPLETED**. *It is now proposed to link it to the GEO Portal.*
- Calibration Test site study initiated by ESA. **COMPLETED**

DA-06-02_3

Action: Hold the 2nd GEO-CEOS Workshop on CAL/VAL

- Status: **COMPLETED**: 2nd Workshop successfully organized by ESA with NASA/NIST in Washington, DC, on May 6-8, 2008. See <http://calvalportal.ceos.org/CalValPortal/showWorkshops.do>

Category 2 Actions:

CL-06-01_4

Action: Reprocess altimeter data and atmospheric products from Envisat

- **Status: SCIAMACHY: The second reprocessing cycle was covering the period 02 August 2002 – September 2007. The complete Level 1b version 6.03 and Level 2 version 3.01 dataset is available at D-PAC. COMPLETED**

Category 3 Actions:

EC-06-01_2

Action: 10 yrs of GlobCarbon data made available so that generation of fully-calibrated land products is possible

- **Status: COMPLETED. 10 years available by end of year 2008 (See CL-06-02_11)**



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NEW ACTIONS 2009-2011

Category 1 Actions

CL-06-01a_4 (related to CL-06-01_4)

Action: reprocessed Altimetry and atmospheric chemistry products from ENVISAT

- **Status: The Climate Initiative Program was approved at last ESA Ministerial, and re-processing is one of the proposed line of actions. ESA is preparing now an implementation plan, including what refers to ECVs. Regarding reprocessing plans are::**
Altimetry: Reprocessing to start before summer 2009 and be finished in 2009
- **SCHIAMACHY: Reprocessing being planned and should be done in 2010**
- **GOMOS: Reprocessing being planned and should be done in 2010**
- **MIPAS: Reprocessing being planned, but time schedule not fixed yet**

CL-06-01c_21

Action: conduct an ACC-4 workshop focused on Air Quality.

- **Status: ACC-4 workshop focused on Air Quality planned for 15-17 June 2009. Event will be hosted by ESA/ESRIN in Frascati.**

DI-09-02a_2 (related to DI-06-08_2)

Action: Demonstrate a global operational volcanic ash alert system for aviation hazard avoidance. Improved algorithms, improved data latency, and the addition of EUMETSAT/SEVIRI data is planned.

- **Status: The project SAVAA (Support to Aviation for Volcanic Ash Avoidance) was kicked-off in September 2008 for a duration of 3 years. The first users' workshop will take place in Rome on 6/7 April 2009. ESA's contribution to ACC: project SAVAA (Support to Aviation for Volcanic Ash Avoidance).**

Category 1 Actions, with USGS :

DA-09-01a_8 (related to DA-06-02_2)

Action: Develop cal/val portal and post launch test sites

- **Status:**The first version of the portal is on line since more than 1 year. An evolution contract will start by end of February 2009 : improvement of functionalities, layout...etc) and a transfer to operation (from software/hardware point of view). NB: since about 6 months, the Cal/Val portal took over from USGS the WGISS Test site Facilities operations. ESA took the initiative to set up projects for intercomparison Infra red sensor and visible radiometers. The first campaign will take place in Miami from 11-15 May (IR). The visible campaign will take place in Turkey in August (with European actors only) and a 2nd visible campaign will take place in August 2010 (international).
- They follow the QA4EO guidelines.

DA-09-01a_10 (related to DA-06-02_2)

Action: QA framework for EO Implementation

- **Status:**The Quality Assurance Framework for EO was presented and endorsed at last CEOS Plenary . GSICS is now reviewing it in order to make it more generic, by SIT-23. The plans are: May 09: Work with CEOS WGISS on Cal/Val data access
- Jun 09: Develop and initiate an implementation plan for QA4EO
- Sep 09: Organise a community workshop to address implementation of QA4EO
- Nov 09: Establish outreach activities to promote QA4EO within the community.

Category 1 Actions with USGS (cont'd):

DA-09-01a_11 (related to DA-06-02_2)

Action: CEOS reference test sites data. Collaboration and comparison.

- **Status:**For the test sites (calibration), an ESA study is on going in close cooperation with CEOS. Among other, at the end, as practical output a number of 8 (could 7 or 9) instrumented sites will be identified and characterised following QA4EO guidelines in order to make them references (LandNet). About 15 non instrumented sites will be the references for the adapted methodology.
- **Plans are:** Jun 09: Work with WGCV Subgroup leads to initiate dialogue with instrument owners relating to the collection of calibration data over CEOS-endorsed sites.
- **Aug 09:** Ensure collaboration and coordination for the evaluation of the data.

Category 2 Action:

DI-09-01a_2 (related to DI-06-03_1)

Action: Implement action plan for increased use of INSAR data by geohazard community.

- **Status: An action plan was developed to ensure a greater integration of INSAR data for geohazards. In December 2008, BRGM (F) indicated it was no longer in a position to continue leading this activity. The Selection of supersites for the trial period were completed and collection of data is on-going.**
- **Plans are: March 2009: design a new leader for InSAR Implementation. Draft a new action plan for supersite trials and extension of user services.**

Category 3 Action:

DI-06-09_6 (related to DI-06-09_2)

Action: Implementation of GEO Charter agreement for broadening access to Charter data

- **Status: One ESA staff is member of the Charter Executive Secretariat. Agreement in principle between GEO Secretariat and International Charter Executive to broaden access to GEO Member states. A letter has been sent to GEO members by GEO SEC.**
- **Plans are: April 2009: Charter Executive Secretariat to make a formal proposal to the Board on how to improve global access to the Charter**
- **May/June 2009: Feedback from the Board to GEO**
- **Second half 2009: Meeting with GEO SEC.**

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- **ESA is also leading a number of GEO sub tasks on behalf of CEOS.**
 - **ESA will also play an increased role in the Forest & Carbon Monitoring.**
 - **ESA has committed actions regarding the GCOS IP.**
 - **ESA is planning a number of activities regarding climate change monitoring, as part of its recently approved program.**
 - **ESA will indicate to SIT chair in the near future in which of the new actions will be contributing, not as leader.**