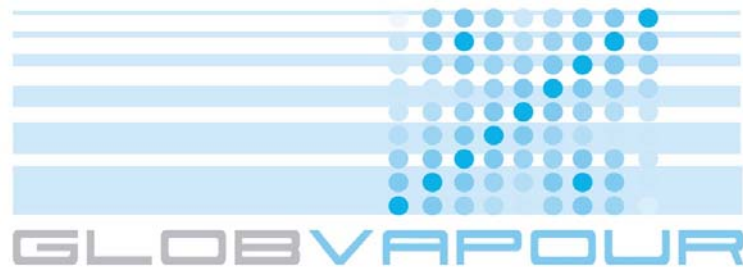


Monthly Progress Report

February 2010

DUE GLOBVAPOUR



Issue 1, Revision 0

04 March 2010

ESRIN/Contract No.: 22696/09/I-OL

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Monthly Progress Summary - ESA DUE GlobVapour

ESRIN/Contract No.: 22696/09/I-OL

Reporting Period: 01.02.2010 - 28.02.2010

Main Actions: Subcontract preparation finalized and contracts issued to partners, document set up for first four deliverables, start of 1D-Var development for SSM/I, IASI and MERIS

Activities, Achievements and Status - Phase I**Management and Coordination****WP 001 - Management and Coordination (J. Schulz)**

- Subcontracts were agreed among partners and prime and were issued to partners for signature 26 February 2010.
- Planning of the Kick-Off (KO) and Requirement Engineering Review (RER) meeting at DWD, Offenbach, Germany, on 15/16 March finalised (e.g., agenda and invitation of partners and users)
- PMP was updated with content lists of further deliverables.
 - MPR Feb 2010

WP 010 - Promotion (J. Schulz)

- FUB and BC are working on the set up the GlobVapour web site. It is expected that this will be functioning within the next two months.
- First attempts to expand the User Group have been carried out. One identified interested group is the University of Edinburgh for corrections of SST retrievals.

Consolidation of Requirements and Specifications**WP 110: Requirements Baseline (R. Saunders)**

- The RBD has been sent to the User Group. Their comments have been implemented into the RBD.
- The RBD has been finalised and will be submitted on 5 March 2010.

WP 120: Technical Specifications (J. Schulz)

- The TSD and SDP have been improved and analysis of technical specifications based on existing user requirements and other data sets has been continued.

WP 130: Summary of existing algorithm comparisons (J. Schulz)

- The SVR has been started by an assessment of the delta between the content of the proposal and new literature that appeared since then.

Creation of Diagnostic Data Set and validation tools**WP 210: Collection and procurement of validation data (M. Schröder)**

- The DAP and the data acquisition of ground- and satellite-based validation data has been improved and continued, respectively.
- The file structure for the validation data has been set up.
- The procurement of validation data not yet available from within the project can be assured - corresponding web and ftp-address have been identified.

WP 220: Collection and procurement of satellite data (J. Schulz)

- The DAP has been improved.
- The set up of a category 1 data user at ESA for procurement of MWR data has been done by DWD.

WP 230: Development of validation tools (M. Schröder)

- Starts April 2010.

Development of Prototype Product**WP 310: Development of GOME/SCIAMACHY/GOME-2 retrieval scheme (D. Loyola)**

- Instrument-specific input data (e.g. cross-sections) have been generated for the GOME and SCIAMACHY retrievals in UPAS.
- First functional test have been performed.

WP 320: Development of MERIS retrieval scheme (R. Preusker)

- The development of the MERIS water vapour retrieval algorithm has been started. The single scattering forward model needed in the optimal estimation algorithm is in preparation.

WP 330: Development of SSM/I - MWR retrieval scheme (M. Schröder)

- The NWP-SAF 1D-Var scheme for SSM/I, SSMIS and AMSU-A was successfully implemented at DWD. Currently, the background information is changed from NWP forecast to reanalysis.

WP 340: Establishment of consistency of MERIS and SSMI (M. Schröder)

- Starts June 2010

WP 350: Development of ATSR/AATSR retrieval scheme (R. Preusker)

- Starts June 2010

WP 360: Assessment of existing IASI retrieval schemes (J. Schulz)

- The implementation of DWD's IASI retrieval on a regular Linux computer has been started. A series of improvements to the retrieval scheme have been identified (background from reanalysis and not from NWP forecast, pixel based error information and Jacobians as output) and will be implemented in near future.

WP 370: Development of merged IASI/SEVIRI profile product (M. Schröder)

- Starts June 2010

WP 380: Production and validation of prototype data sets (J. Schulz)

- Starts September 2010

WP 390: Development of processing environment (U. Krämer)

- Starts May 2010

Next Steps and Schedule

- Bring GlobVapour Website into function.
- Completion and submission of TSD, DAP, and SDP relevant documents before 10 March 2010.
- Conduct KickOff and RER meeting on 15/16 March 2010.
- Starting Summary of existing algorithm comparison and validation reports, Product Validation Plan, Ground Data Document and Diagnostic Data Set.
- Start IASI assessment.

Achievements

- Successful implementation of 1D-Var scheme for microwave instruments
- Submission of RBD for review.

Problems encountered and solutions proposed

- Most critical area is the drafting of the Software Development Plan, the first version of this will not cover details very much.
- Pixel based error information will be taken from the datasets entering the DDS. Missing or unreliable error information (identified through quality monitoring) might lead to an exclusion of this particular dataset from DDS.