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GHG-CCI Quarterly Status Report (QSR) #8

Reporting period: Jul-Sep 2012

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## **GHG-CCI QSR Jul-Sep 2012**

### **1. Project Status**

The GHG-CCI project ([www.esa-ghg-cci.org](http://www.esa-ghg-cci.org)) has made significant progress during the reporting period. The project is on track in terms of meeting its objectives. No major problems have been encountered w.r.t. meeting the schedule. The second year of the GHG-CCI project ended end of Aug. 2012 (as planned) and this date was also the end of the GHG-CCI Round Robin (RR) exercise. All deliverables have been delivered as planned. The final RR decision is reported in the "Algorithm Selection Report" (ASR) available on the GHG-CCI website along with a number of other documents (-> Documents). The ASR is a short document reporting the RR decision and its justification referring to the "Product Validation and Algorithm Selection Report" (PVASR), written by the independent VALidation Team (VALT), and the "Algorithm Inter-comparison and Error Characterization & Analysis Report Version 1" (AIECARv1), written by the satellite retrieval experts, where the detailed assessments on which the RR decision is based on are described. In addition, a number of other documents have been delivered such as the "Algorithm Theoretical Basis Document Version 1" (ATBDv1) and the "Data Access Requirements Document Version 2" (DARDv2). Both documents are updates of previous versions of these documents. As discussed with the GHG-CCI CRG and with ESA and the entire GHG-CCI team it has been decided not to update the URD as all requirements as given in URDv1 are still valid. URDv1, which is widely used also outside of the GHG-CCI project (e.g., in the framework of (planned or possible) future satellite missions such as Sentinel-5 and CarbonSat), is therefore (still) the latest version of the GHG-CCI URD.

### **2. Main progress during last 3 months**

Focus of the reporting period was to finish the RR exercise including all related documents (see above). The RR results and related documents have been presented to ESA during Progress Meeting 5 (PM5), held on 17 Sept. 2012. PM5 was very successful: ESA confirmed that Contractual Phase 2 (2<sup>nd</sup> year of GHG-CCI) has been successfully completed and that GHG-CCI is authorized to proceed with CP3. CP3 started as planned on 1. Sept. 2012. A major activity during the reporting period was the preparation of the 3<sup>rd</sup> Co-location Meeting and the CCI Mid Term Review (MTR) Meeting in Frascati end of Sept. 2012. Both meetings were attended by several GHG-CCI team members including the Science Leader and a user representative (the Project Manager and the head of the GHG-CCI System Engineering Team participated at the Co-location Meeting). During the reporting period several publications have been submitted to peer-reviewed journals, e.g., Reuter et al., ACPD, 2012.

### **3. Next Steps 3-6 months**

A major ongoing next step is the generation of the Climate Research Data Package (CRDP), which will be ready for project internal evaluation end of Feb. 2013. The CRDP will be generated using all algorithms selected during RR. From March-August 2013, the CRDP will be validated by VALT (documented via document "Product Validation and Intercomparison Report" (PVIR) due end of May 2013) followed by user assessment conducted by the GHG-CCI Climate Research Group (CRG; documented via document "Climate Assessment Report" (CAR) due end of Aug. 2013). At PM5 it has been identified that a number of aspects need further discussion w.r.t. the CRDP and its evaluation which will be addressed at PM6 scheduled for 28-29 Nov. 2012.

\*\*\* End of Report \*\*\*