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GHG-CCI Quarterly Status Report (QSR) #13

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### **GHG-CCI QSR Oct-Dec 2013**

#### **1. Progress status**

GHG-CCI Phase 1 has been successfully completed with the Final Presentation, which took place at ESRIN on 30 Oct. 2013.

#### **2. Phase 1 conclusions**

Phase 1 achievements: Phase 1 was very successful: All deliverables have been delivered in time and are available via the GHG-CCI website (<http://www.esa-ghg-cci.org/>) and a number of peer-reviewed publications have been written, where the GHG-CCI data set were used as input data or algorithm improvements or validation aspects are described. For a short Phase 1 overview (including a publication overview) please see Buchwitz et al., The Greenhouse Gas Project of ESA'S Climate Change Initiative (GHG-CCI): Phase 1 Achievements, Proceedings ESA Living Planet Symposium Edinburgh 2013 (available from <http://www.esa-ghg-cci.org/>), 2013.

Climate Assessment: The GHG-CCI Climate Assessment Report (CAR) is available from <http://www.esa-ghg-cci.org/> -> Documents.

Data Open Access: The GHG-CCI Phase 1 Climate Research Data Package (CRDP) products are freely available from <http://www.esa-ghg-cci.org/> -> CRDP (along with the corresponding documentation, figures, etc.).

Peer reviewed publications: Please see the list given on <http://www.esa-ghg-cci.org/> -> Publications with links to pdf files.

#### **3. Phase 2 objectives**

Focus of GHG-CCI in Phase 2 will be to (i) extend the satellite-derived GHG time series (including future sensors such as OCO-2 and possibly S5-P), (ii) to improve the quality of the existing data (by algorithm improvements and re-processing) and (iii) to use the data products to address important science questions related to the sources and sinks of the two greenhouse gases CO<sub>2</sub> and CH<sub>4</sub>. The latter aspect will be addressed by extending the Climate Research Group (CRG) of GHG-CCI (in Phase 2 there will be 7 groups instead of only 3 on Phase 1) but also by ongoing dedicated activities by the data provider.

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