

GHG-CCI QSR October-December 2016

1. Overall progress

During the reporting period the project proceeded as planned. No major issues have been identified. Focus during the reporting period was on a new data set covering the time period 2003 - 2015 (Climate Research Data Product No. 4, CRDP4). A progress meeting has been held mid of October 2016, where the status of the CRDP4 generation and initial quality assessment results have been presented and discussed. A new User Requirements Document has been released shortly afterwards with refined (much stricter) stability requirements (URDv2.1, http://www.esa-ghg-cci.org/?q=webfm_send/344). The quality assessment and initial user assessment started during the reporting period and will be finished in February 2017. The new data set including documentation will be made publicly available end of February 2017.

2. Operational continuation after CCI

GHG-CCI team members are since 1st of November 2016 part of C3S (<https://climate.copernicus.eu/>) via project "Production of Essential Climate Variable Datasets based on Earth Observations: Greenhouse Gases (carbon dioxide and methane) (C3S_312a_Lot6)" (lead: IUP, Univ. Bremen, PI: M. Buchwitz; team: see <https://climate.copernicus.eu/providers>). This ensures that parts of the GHG-CCI activities will be continued after the end of the current GHG-CCI contract. C3S is an operational service and coverage of R&D aspects is very limited. R&D was an is the focus of CCI and the GHG-CCI team hopes that ESA and its member states will continue this important activity in the future ("CCI+").

3. Technical information

3.1 Publications since last QSR:

Feng, L., Palmer, P. I., Bösch, H., Parker, R. J., Webb, A. J., Correia, C. S. C., Deutscher, N. M., Domingues, L. G., Feist, D. G., Gatti, L. V., Gloor, E., Hase, F., Kivi, R., Liu, Y., Miller, J. B., Morino, I., Sussmann, R., Strong, K., Uchino, O., Wang, J., and Zahn, A.: Consistent regional fluxes of CH₄ and CO₂ inferred from GOSAT proxy XCH₄:XCO₂ retrievals, 2010–2014, Atmos. Chem. Phys. Discuss., doi:10.5194/acp-2016-868, 2016.

McNorton, J., E. Gloor, C. Wilson, G. D. Hayman, N. Gedney, E. Comyn-Platt, T. Marthews, R. J. Parker, H. Boesch, and M. P. Chipperfield, Role of regional wetland emissions in atmospheric methane variability, Geophys. Res. Lett., 43, doi:10.1002/2016GL070649, 2016.

Full publication list please see: <http://www.esa-ghg-cci.org/> -> Publications (note that publications with GHG-CCI funding explicitly acknowledged are marked with (*) on that website).

3.2 Number of users

Number of users (mid 2011 to 14-Dec-2016): 516 (22 during reporting period).

*** End of Report ***