Atmos. Meas. Tech. Discuss.,
doi:10.5194/amt-2019-398-RC2, 2019
© Author(s) 2019. This work is distributed under
the Creative Commons Attribution 4.0 License.

Atmospheric Measurement Techniques Discussions

Interactive comment on "Ensemble-based satellite-derived carbon dioxide and methane column-averaged dry-air mole fraction data sets (2003-2018) for carbon and climate applications" *by* M. Reuter et al.

Anonymous Referee #2

Received and published: 6 December 2019

This paper shows the results of a community effort aiming at retrieving CO2 and CH4 columns from satellites, providing monthly maps of these quantities, and evaluating the quality of these products. The combination of the satellite products, through a median-based procedure, provides a "best-estimates". This paper is well presented and provide an up-to-date assessment of the XCO2 and XCH4 retrievals. As such, it is a needed contribution by and for the remote sensing community aiming at greenhouse gases retrievals from space. The paper is very clear, and presented in a balance way. It can be published as such

Interactive comment on Atmos. Meas. Tech. Discuss., doi:10.5194/amt-2019-398, 2019.