

***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.***

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Many thanks for taking the time to review our manuscript.

Referee: 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.

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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.

Author's response: Many thanks for this very positive review.

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

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