

Interactive comment on “XCO₂ observations using satellite measurements with moderate spectral resolution: Investigation using GOSAT and OCO-2 measurements” by Lianghai Wu et al.

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Dear authors,

this manuscript uses TCCON data from several stations but lacks the proper references to the TCCON dataset DOIs. Citing these is a requirement of the TCCON Data Use Policy. Luckily, this can still be fixed easily.

Instructions:

- Go to the TCCON data archive at <https://tccodata.org/>.
- Visit the pages of the TCCON stations that you used for your study.

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- Look at the section "Cite this record as:". You can download the dataset DOI citation in various formats - including the correct one for Copernicus Publications.

- These dataset DOI references should be included in your manuscript's list of references.

- Since you used data from several TCCON stations, I recommend adding a table that contains all the TCCON site names, locations and the citations (like "Wennberg et al., 2016" for Lamont) . This is easier than putting all the citations into the text.

- Note: some TCCON stations have several data releases (R1 etc.). Every release has a different DOI, so please make sure that you cite the dataset release that you actually used in your study.

The DOI references are also included in the header of the TCCON netCDF files that you downloaded originally. However, the DOI metadata on the TCCON Data Archive is probably more up to date.

Citing the TCCON dataset DOIs is essential for tracking the use of TCCON data. Running a TCCON station requires considerable funds and efforts by highly qualified personnel. Being able to track the use of their data is critical for most TCCON stations to continue operations.

Additional comments:

- in your acknowledgments, the URL of the TCCON Data Archive is wrong. The correct one is <https://tccodata.org/>.

Please fix these issues before the final version. Thanks!

Kind regards

Dietrich Feist