

Atmos. Meas. Tech. Discuss., referee comment RC1
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Comment on amt-2022-264

Anonymous Referee #2

Referee comment on "Validation of Sentinel-5P TROPOMI tropospheric NO₂ products by comparison with NO₂ measurements from airborne imaging, ground-based stationary, and mobile car DOAS measurements during the S5P-VAL-DE-Ruhr campaign" by Kezia Lange et al., Atmos. Meas. Tech. Discuss., <https://doi.org/10.5194/amt-2022-264-RC1>, 2022

The manuscript by Lange et al. discusses the S5P-VAL-DE-Ruhr validation campaign. It includes a very extensive and well-presented validation of the TROPOMI dataset with aircraft and ground-based measurements, including a good measurement campaign overview. It further includes a comparison of different TROPOMI NO₂ datasets and shows the significant improvements of the latest product version PAL over OFFL. It is of interest to readers of AMT. I would recommend publication after addressing some suggestions (see supplement).

Please also note the supplement to this comment:

<https://amt.copernicus.org/preprints/amt-2022-264/amt-2022-264-RC1-supplement.pdf>