

Electronic Supplementary Material to: Detection of Anthropogenic CO₂ Emission Signatures with TanSat CO₂ and with Copernicus Sentinel-5 Precursor (S5P) NO₂ Measurements: First Results*

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As mentioned in section 2.1 of the main body of this paper, we introduce a new bias correction method that reduces the cross-footprint bias. This section compares the retrieval results without bias correction, with version 2 bias correction, and with the new bias correction in the Tokyo case (see Fig. 2). The results indicate a significant improvement in the dispersion of measurements between the nine footprints (Fig. S1).

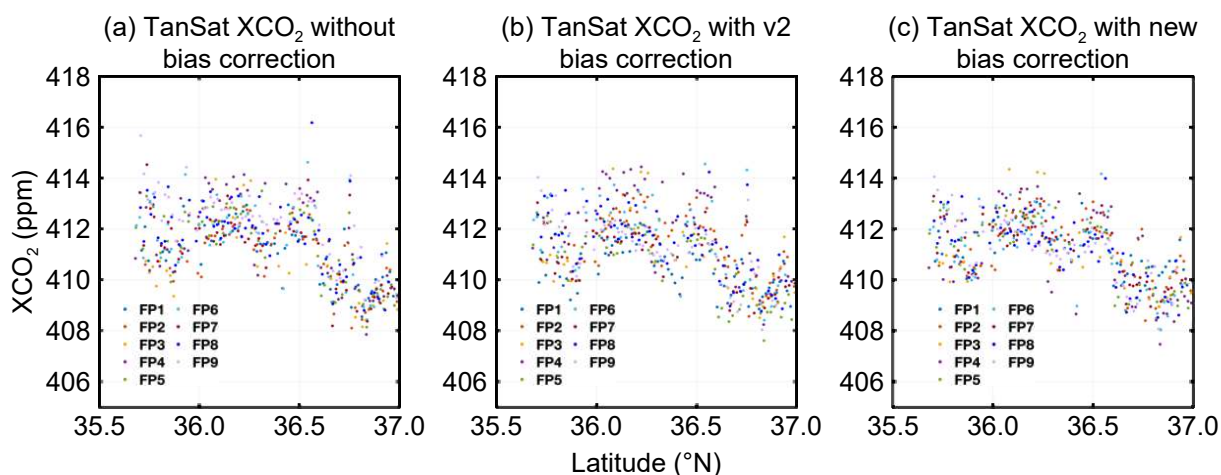


Fig. S1. The TanSat XCO₂ retrieval results (a) without bias correction, (b) with version 2 bias correction, and (c) with the new bias correction for the Tokyo case on 29 March 2018 (see Fig. 2). The colors indicate the footprint (FP) of the TanSat measurements, which includes nine footprints in a frame.