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Supplement of

Observations of XCO₂ and XCH₄ with ground-based high-resolution FTS at Saga, Japan, and comparisons with GOSAT products

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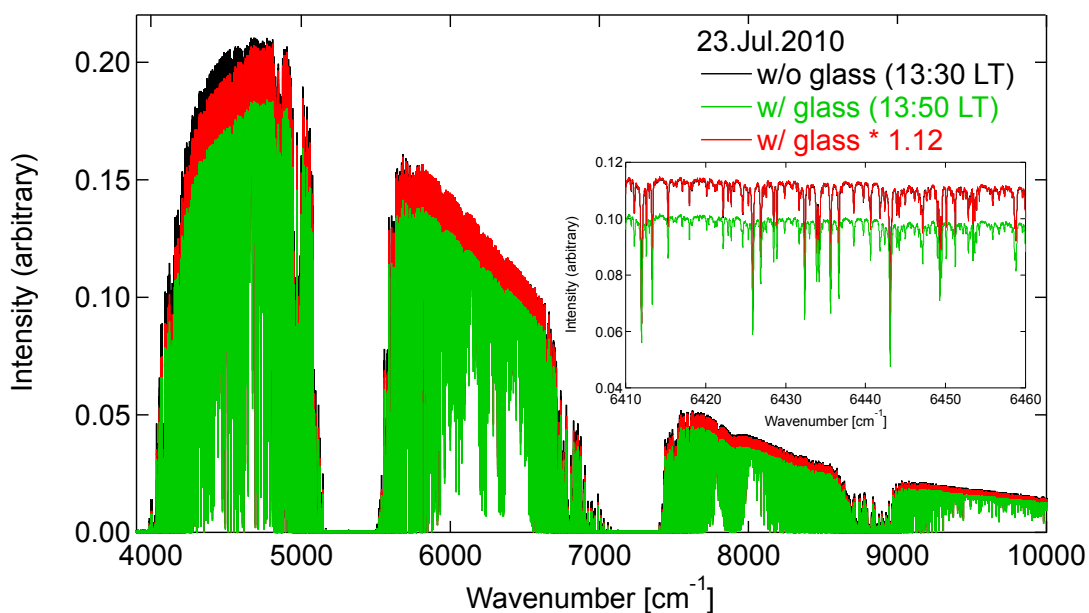


Figure S1. The solar absorption spectra measured without glass (black) and with glass (green) at Tsukuba, Japan, on 23 July 2010. The spectrum with glass multiplied by 1.12 (red) is also shown. The inset shows expansion of a portion of the spectra.

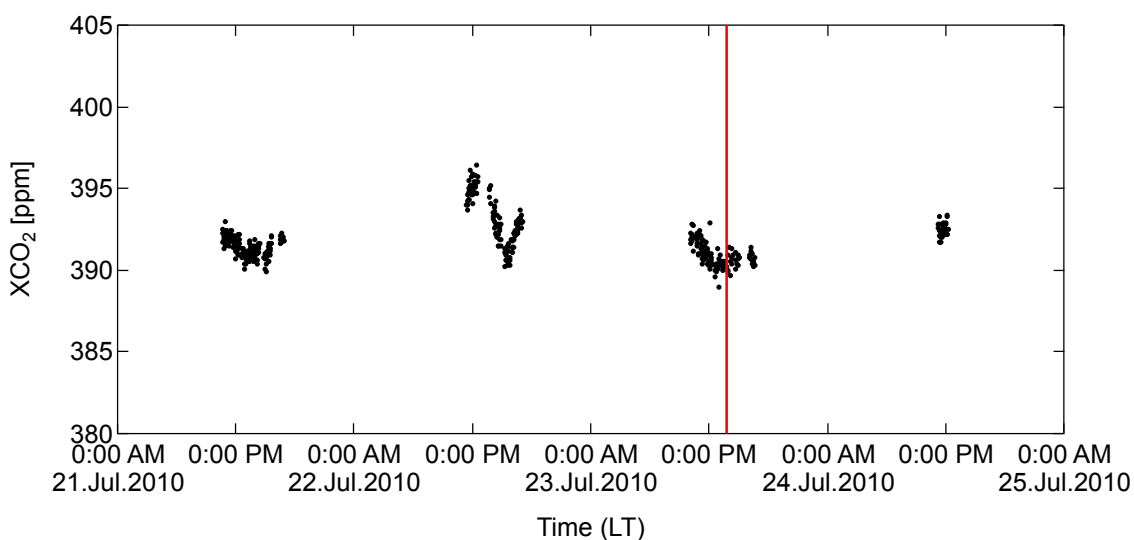


Figure S2. The XCO₂ values observed with our instrument at Tsukuba, Japan, in July 2010. Red line indicates a time when the glass cover was installed.

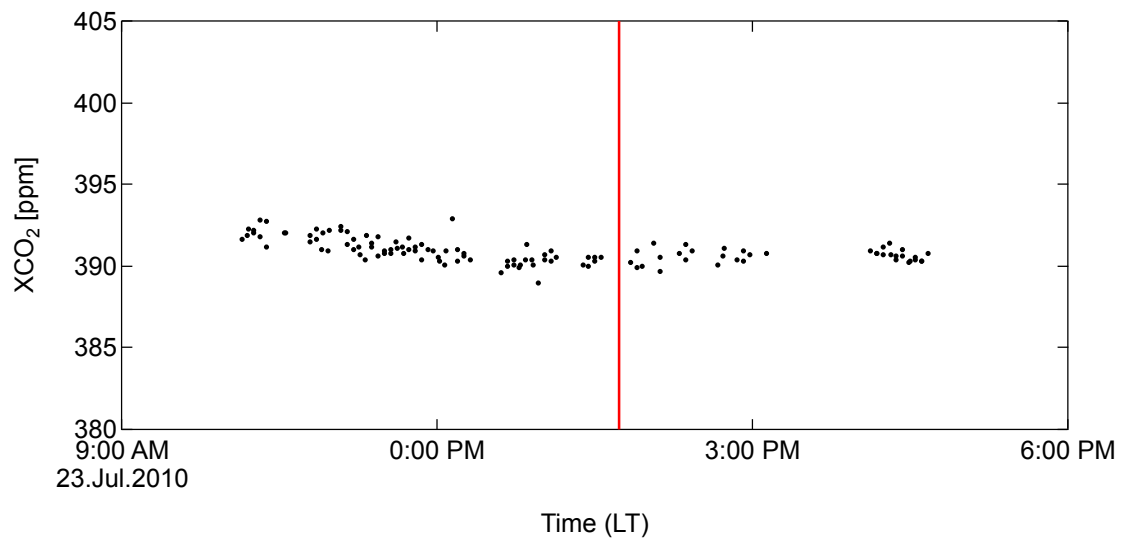


Figure S3. Same as Fig. S2, but for only 23 July 2010.

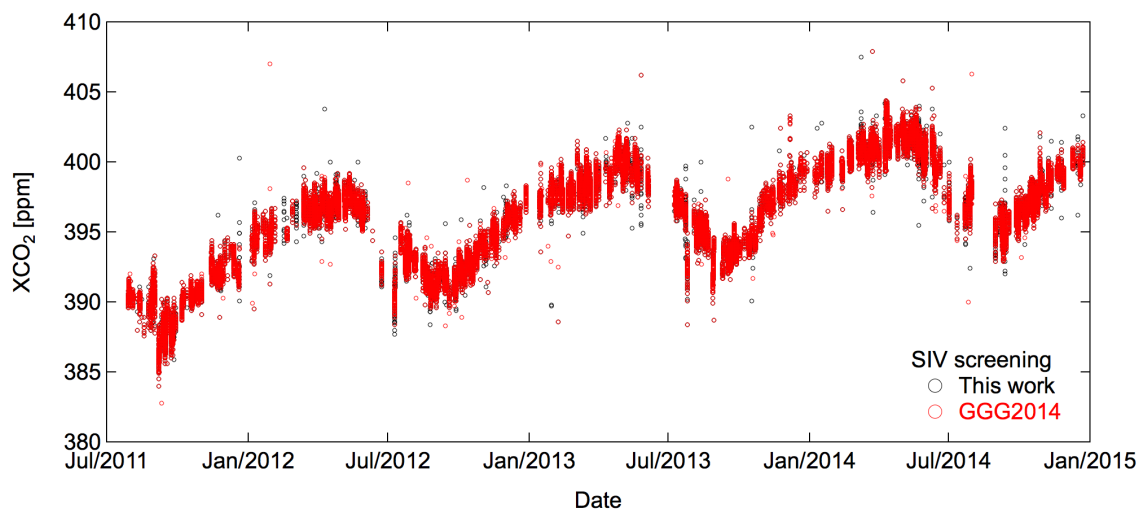


Figure S4. Time series of XCO₂ based on the screening methods used in this work (black) and calculated in GGG2014 (red).

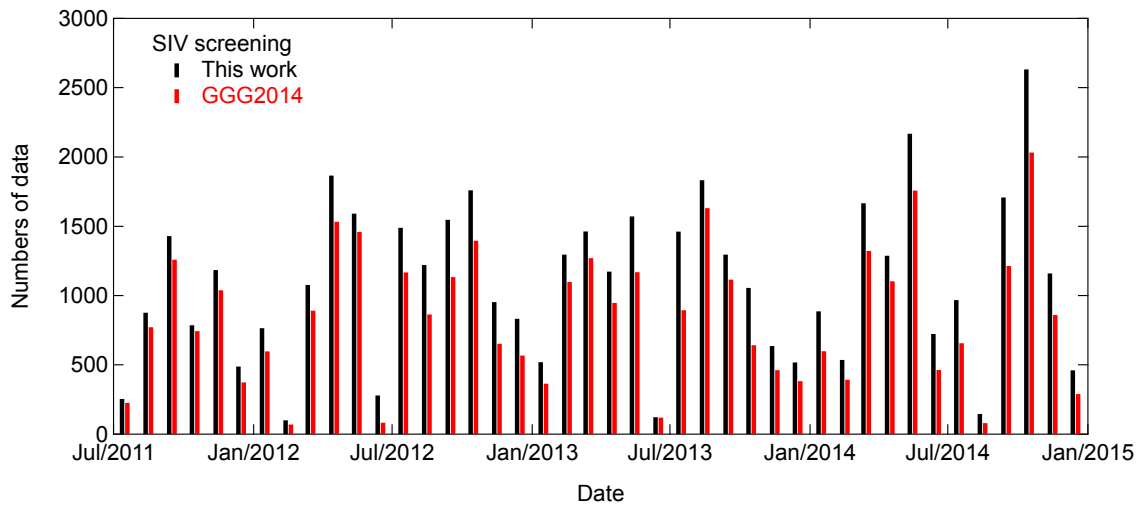


Figure S5. The numbers of data per month based on the screening methods used in this work (black) and calculated in GGG2014 (red).

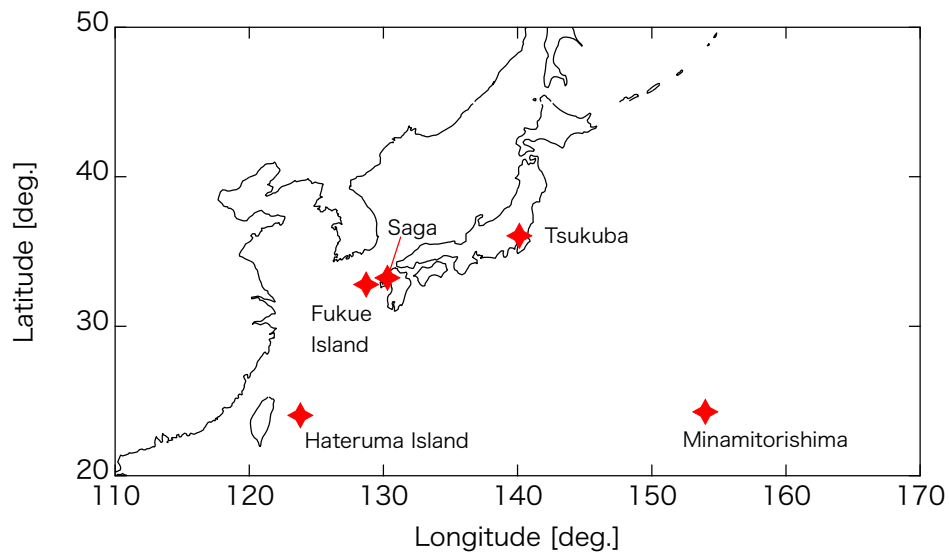


Figure S6. A map of all the locations mentioned in the text.