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## Supplement of

## Validation of $XCO_2$ and $XCH_4$ retrieved from a portable Fourier transform spectrometer with those from in situ profiles from aircraft-borne instruments

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## **Supplementary material**

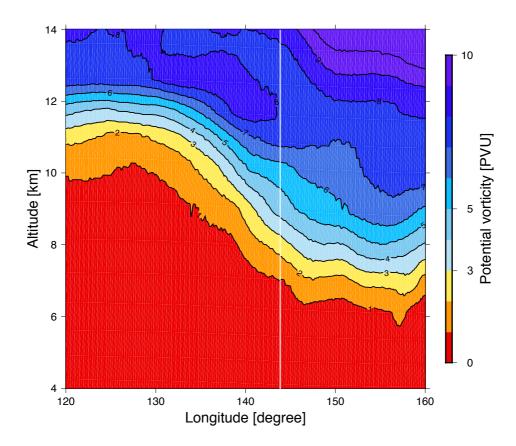


Figure S1. Altitude-longitude cross section between 42° and 45°N of potential vorticity values from the ERA5 at 02:00 UTC on 27 April 2016. Vertical white line indicates the location (longitude) of Rikubetsu.