



Supplement of

Airborne limb-imaging measurements of temperature, HNO_3 , O_3 , ClONO_2 , H_2O and CFC-12 during the Arctic winter 2015/2016: characterization, in situ validation and comparison to Aura/MLS

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Explanation for the following figures:

First rows: Cross section of retrieved quantity (the flight altitude is marked with a grey line, the ECMWF potential vorticities of 2 and 4 PVU are marked with magenta dashed lines). Middle row (for HNO_3 and O_3): Cross section of MLS trace gas data interpolated to the GLORIA tangent points and above the aircraft. Regions with no corresponding GLORIA measurement are marked by fainter colors. Last row: Cross sections of total estimated error, vertical resolution and comparison of the GLORIA measurements of the retrieval grid point closest to flight altitude (green) to the corresponding in-situ measurement (blue).

The flight day is written on the top left plot and the retrieved quantity is marked at the colorbar of this plot







































































































































































