VALIDATION OF IASI OZONE TOTAL COLUMN (OTC) AT IZO: One example within VALIASI

Validation Strategy

**Temporal Criterium:** ±1h

**Spatial Criterium:** ±1º around IZO

No significant influence of spatial coincidencia criterium

FTS is a powerful tool to validate IASI L2 products: high precision, high measurement frequency and good vertical resolution.

- For OTC IASI-FTS intercomparison:
  1. Significant improvement for IASI_L2 OTC v5: IASI underestimates by about 2±4% the FTS OTC.
  2. Good consistency of the OTC annual cycle and the intra-month OTC variability (largest discrepancies in spring): IASI_L2 misses ozone tropospheric contribution.

**REFERENCES**


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The projects VALIASI (VALidation of IASI level 2 products, supported by EUMETSAT) and NOVIA (towards a Near Operational Validation of IASI level 2 trace gas products, supported by Spanish Government) will validate the IASI operational atmospheric trace gas products (Level 2): H_2O and O_3 profiles as well as total column amounts of H_2O, O_3, CH_4, N_2O, CO_2 and CO. For this purpose trace gas data measured by the ground-based FTS (Fourier Transform Spectrometer) technique are used as reference.