



LITES lidar in UK: Intercomparisons with ATLID level 1 product

Avinash Yadav

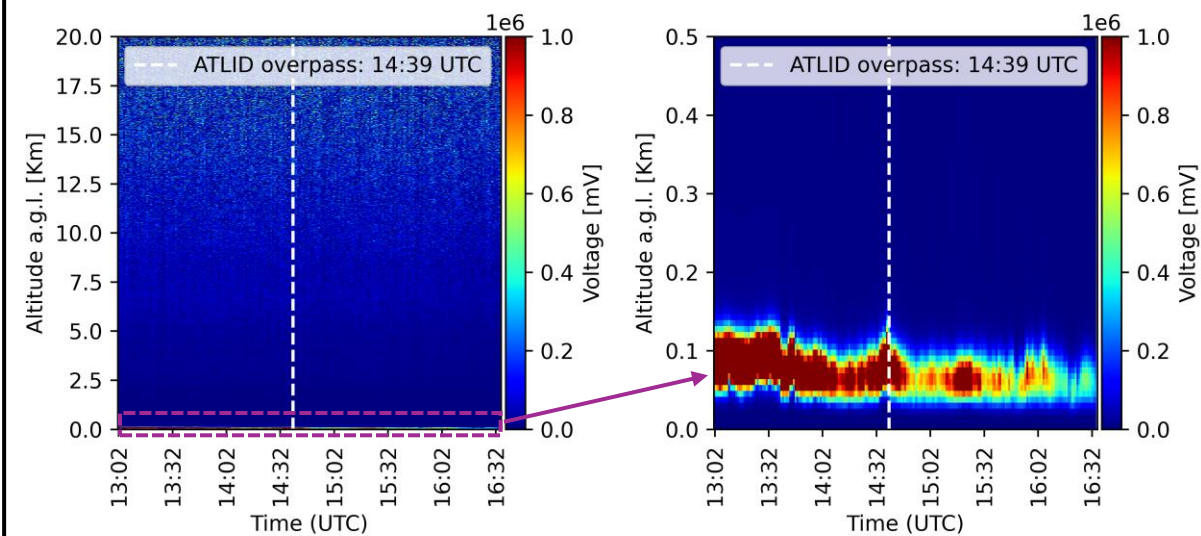
University of Hertfordshire, UK

ATLID-LITES Observation Summary



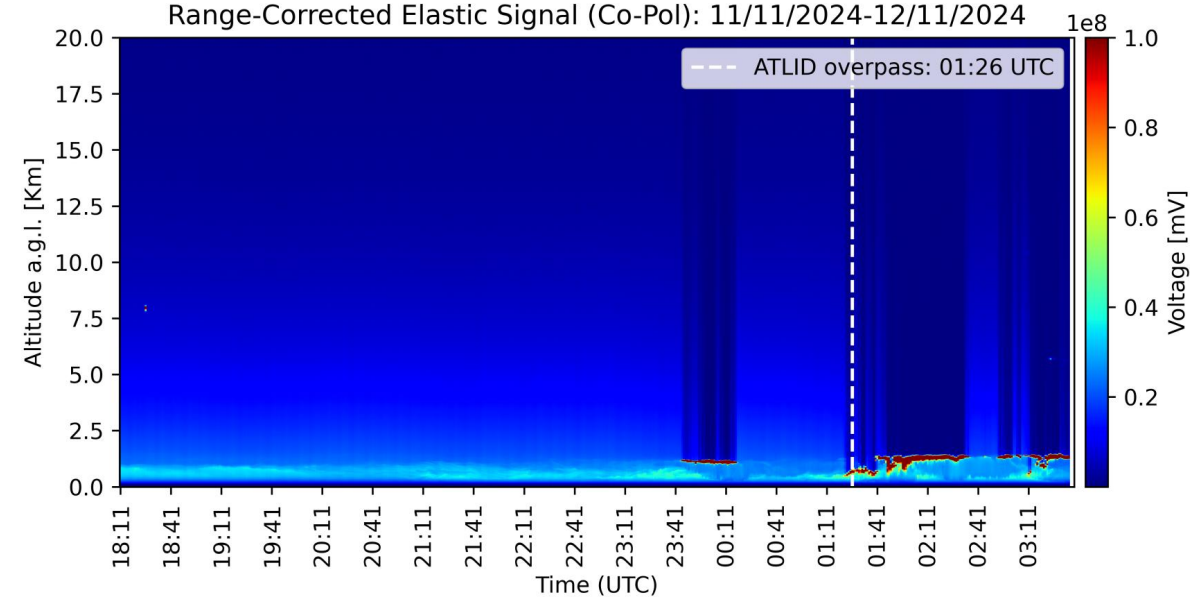
- **Observation date:** 6th Nov 2024
- **Overpass time:** 14:39:28 UTC
- **Overpass distance(mid-swath):** 52.9 Km
- **Aerosol products:** level-1
- **Atmospheric conditions:** thick layer of mist

Range-Corrected Elastic Signal (Co-Pol): 06/11/2024



- **Observation Date:** 12th Nov 2024
- **Overpass time:** 01:26:18 UTC
- **Overpass distance(mid-swath):** 21.4 Km
- **Aerosol products:** level-1
- **Atmospheric conditions:** clear sky

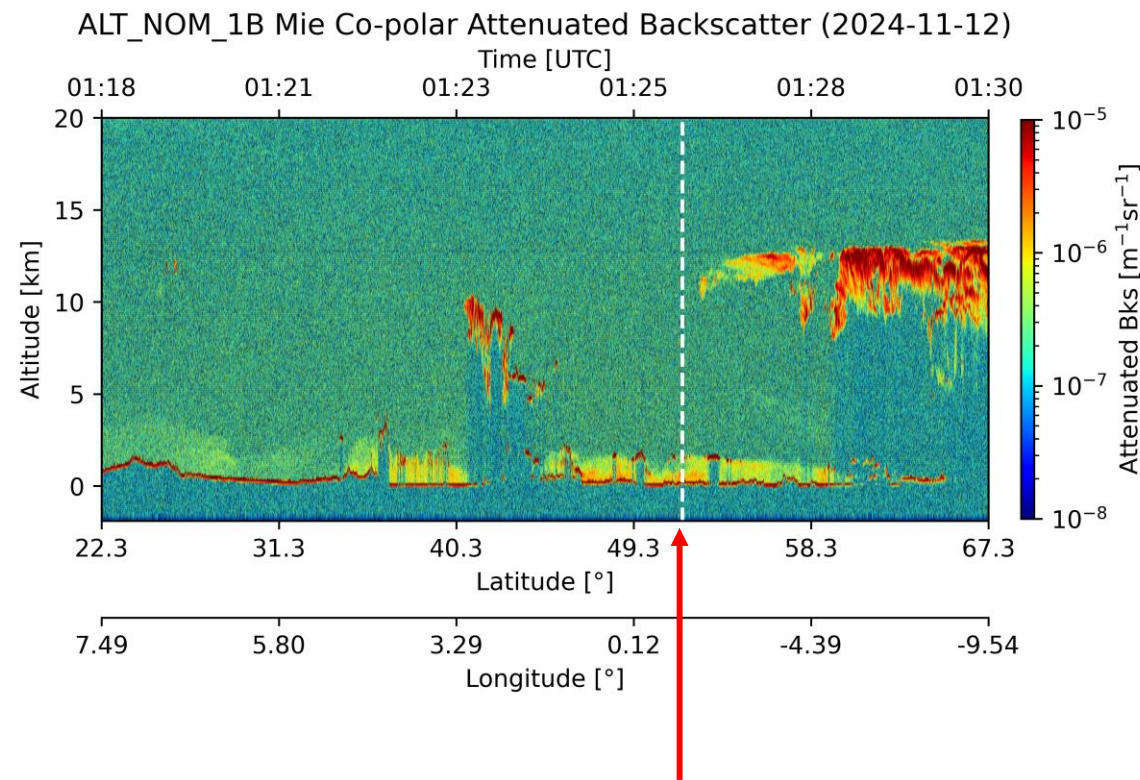
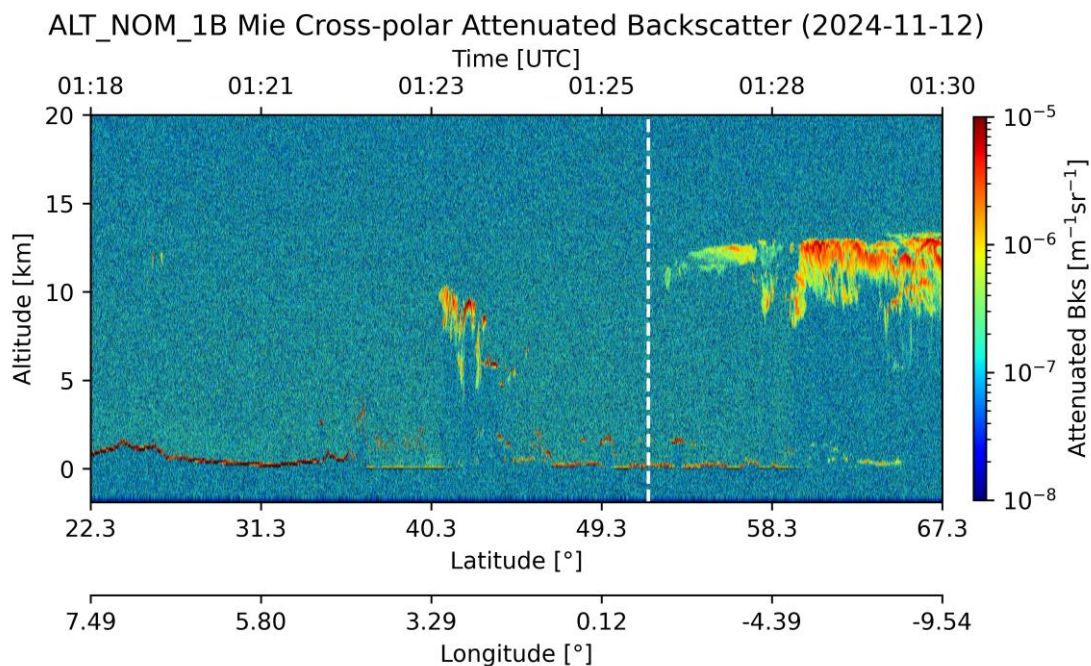
Range-Corrected Elastic Signal (Co-Pol): 11/11/2024-12/11/2024



ATLID Observation Summary



- **Observation Date:** 12th Nov 2024
- **Overpass time:** 01:26 UTC
- **Distance(mid-swath) from LITES:** 21.4 Km
- **Aerosol products:** ALT_NOM_1B

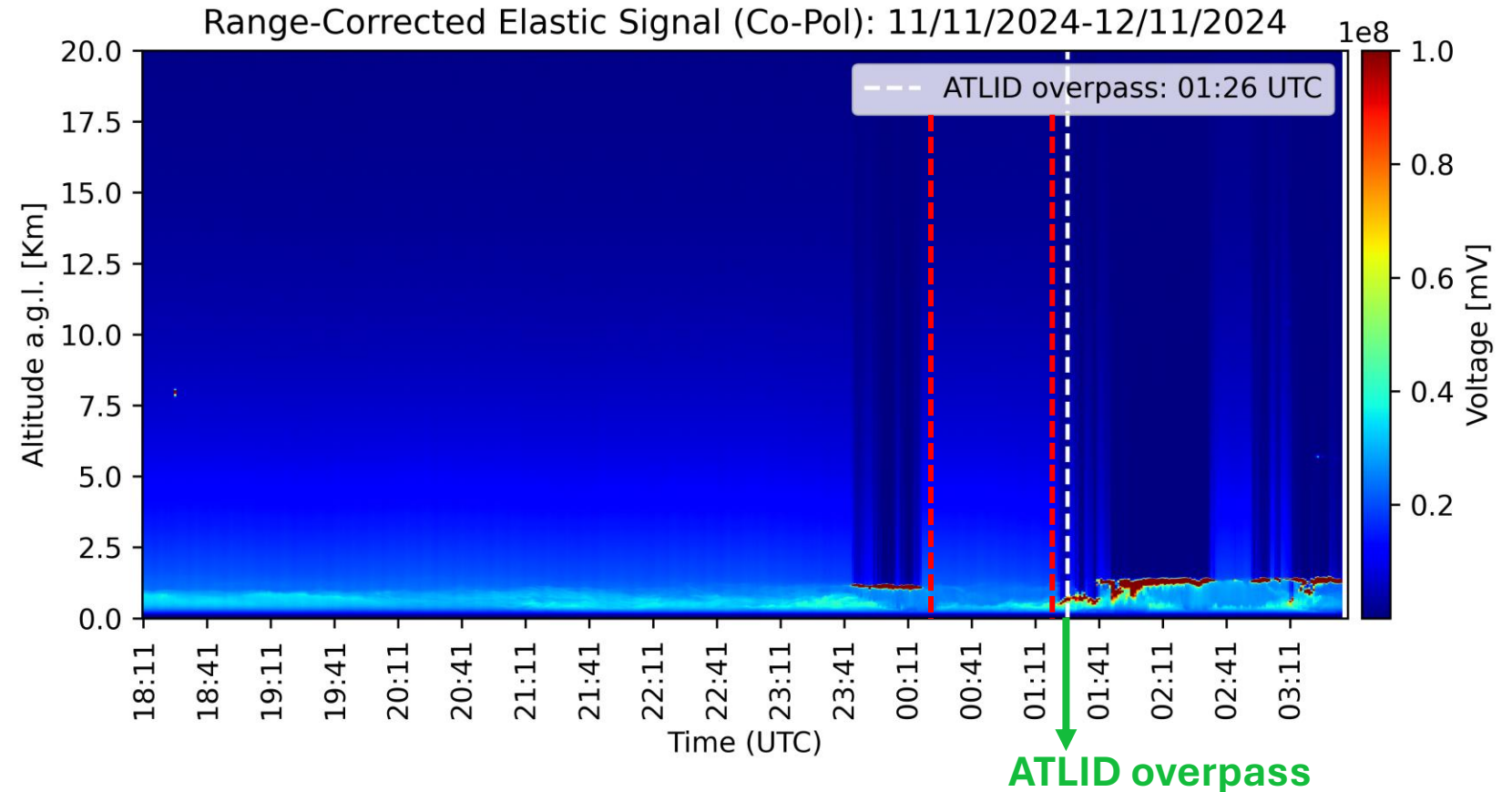


LITES lidar (51.75N, 0.23W)

Ground Observation Summary

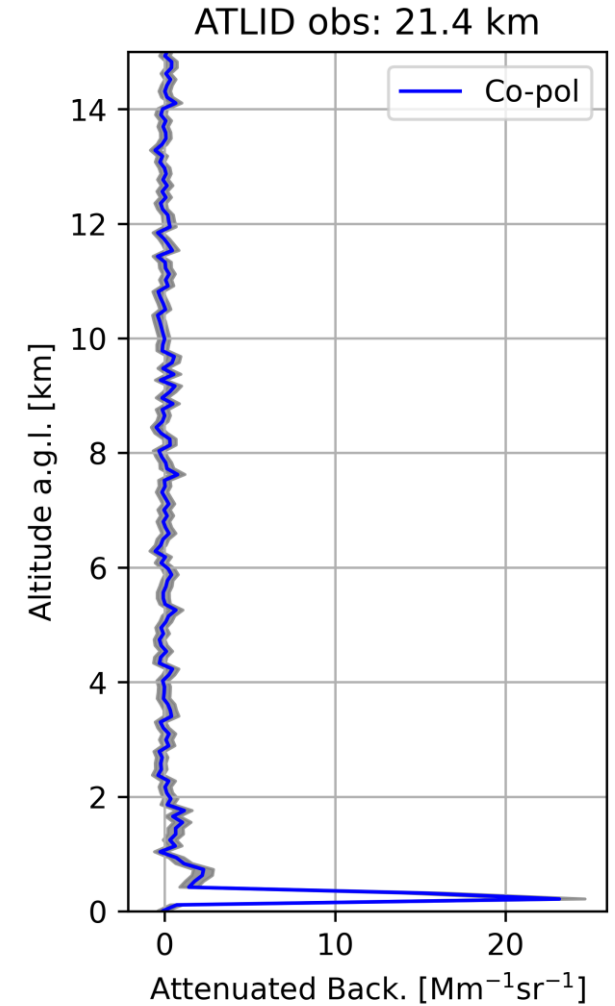
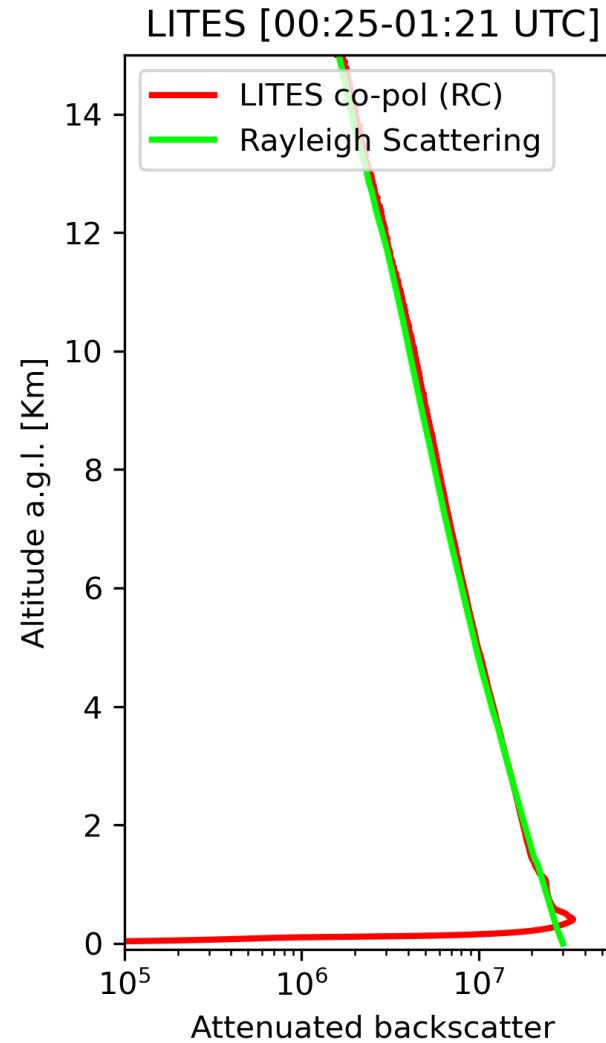
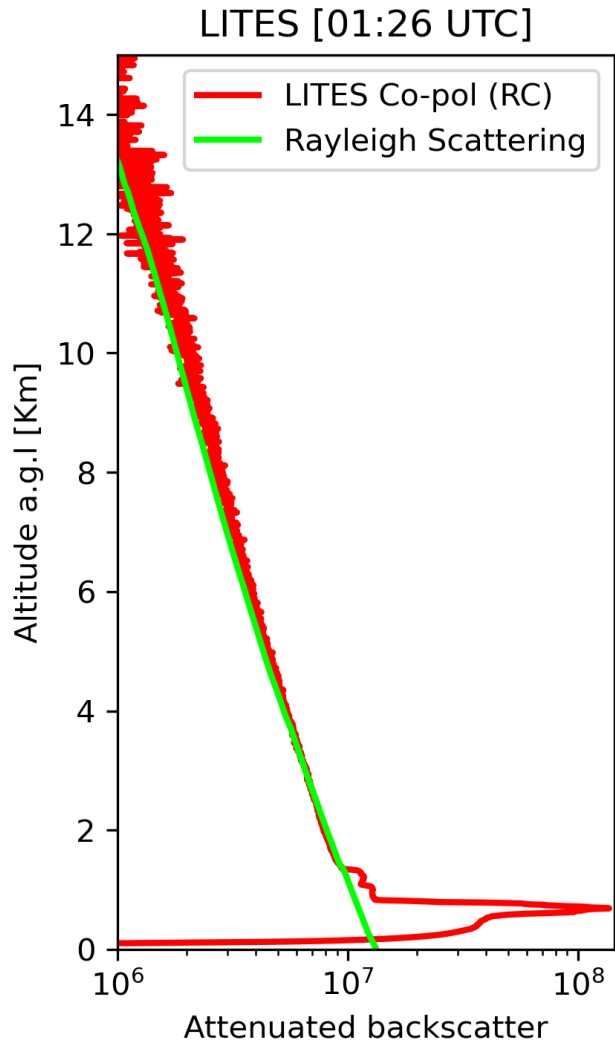


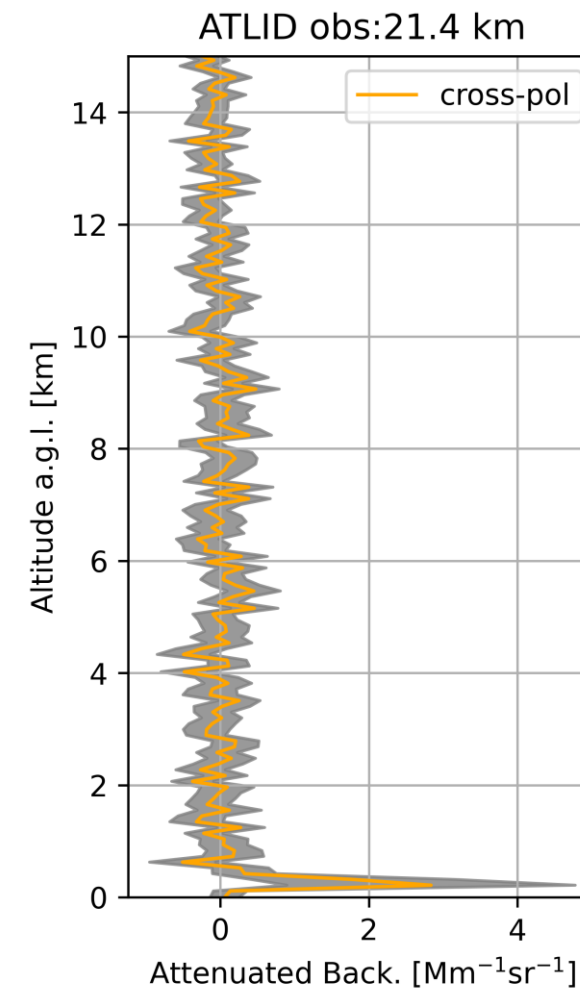
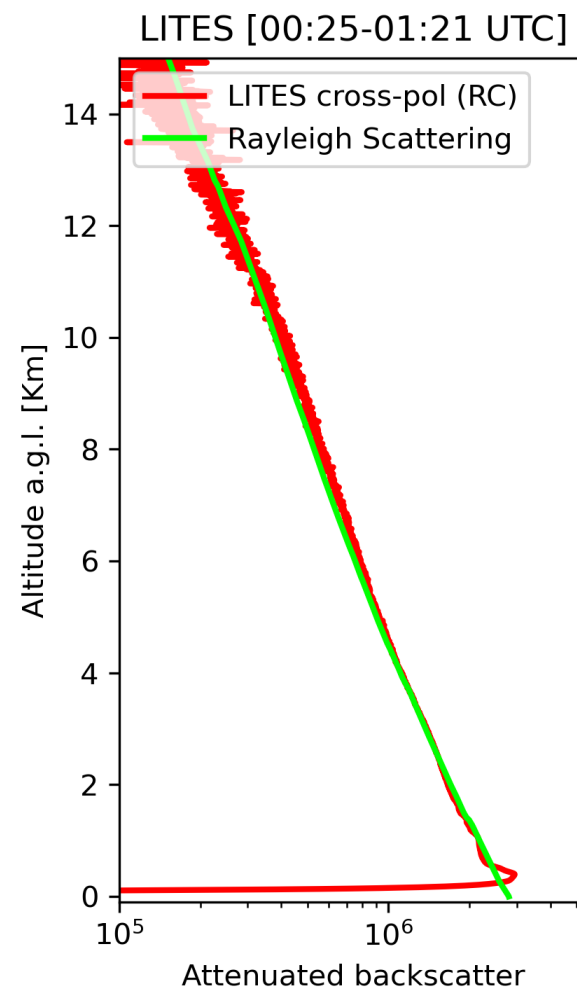
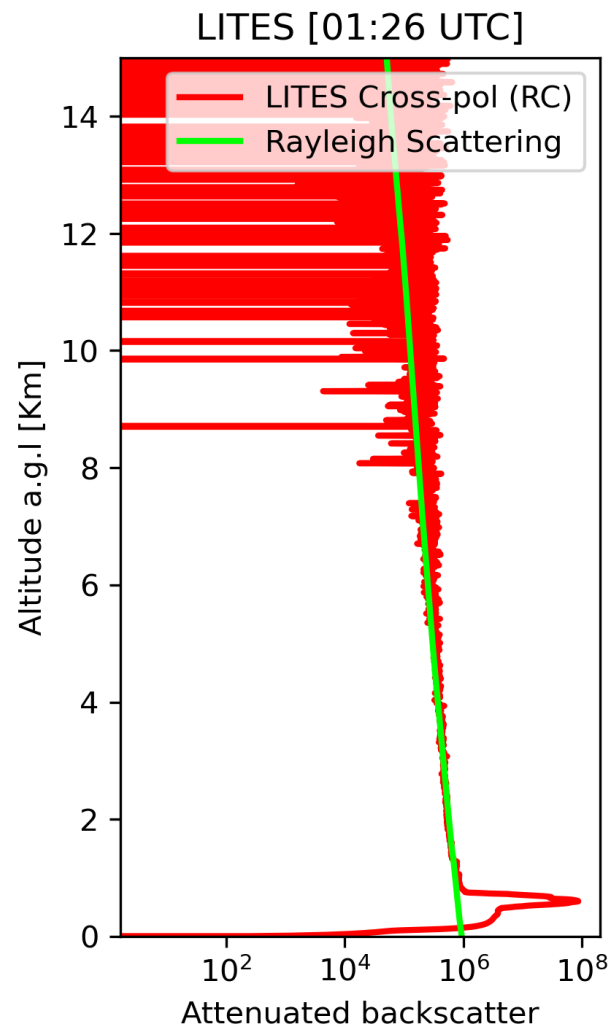
- **Observation time:** 18:11 - 03:38 UTC.
- **Distance to mid-swath:** 21.4 Km
- **Atmospheric conditions:** Low-level dense cloud appears at 01:22 UTC just before the overpass
- **Data conditions:** Raman signals were out of alignment.
- **Background atmosphere:** radiosonde measurements from (53.0°N, -1.25°W).
- **Aerosol/cloud retrieval:** single PMT elastic signals between 00:25-01:21 are used to retrieve.



Range corrected elastic lidar signals (Co-Pol)

ATLID-LITES Comparison Summary







Thank You!