

SAST Activities at *ife* Bremen 2002 (I)

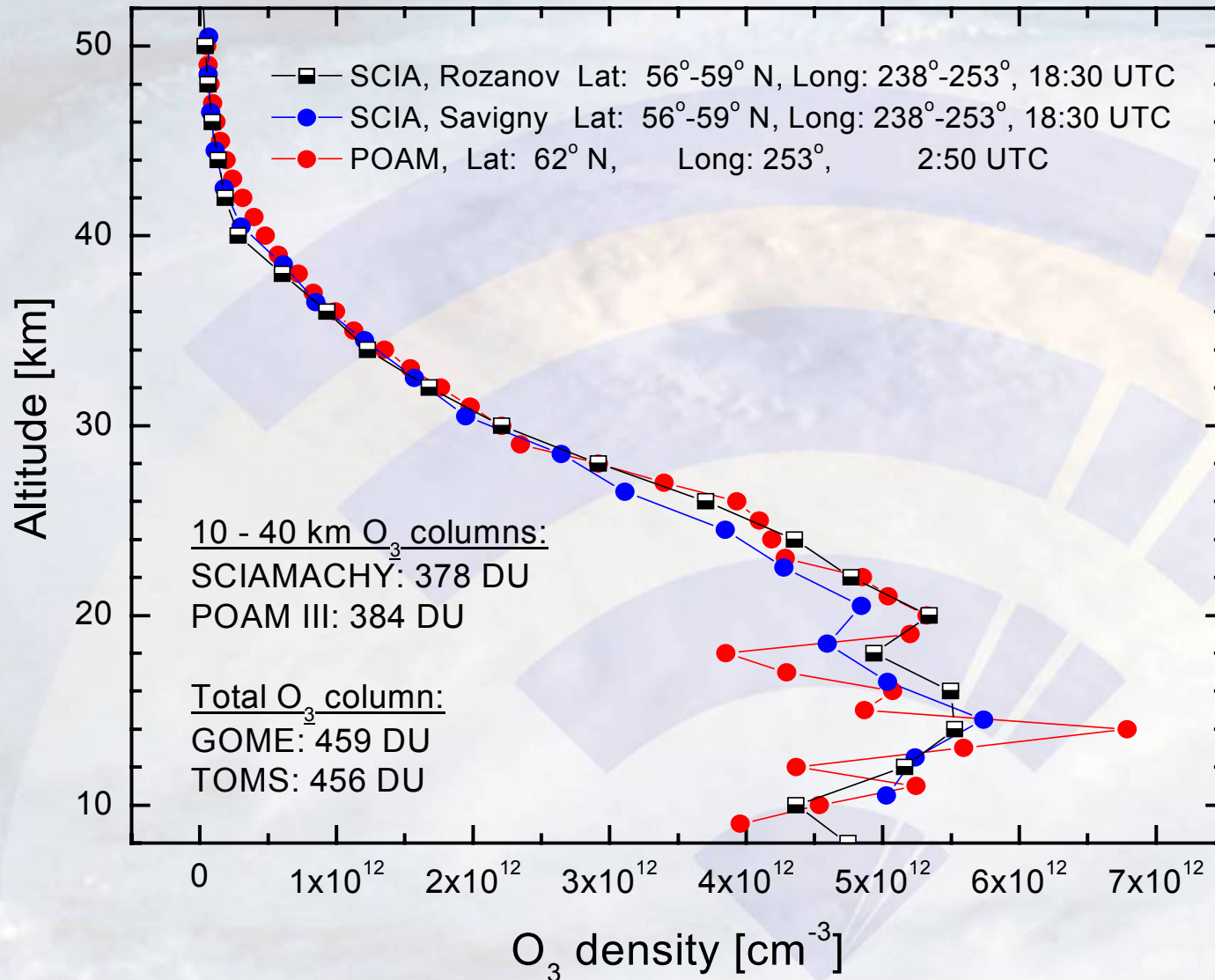
- Development and application of independent algorithms to retrieve stratospheric and mesospheric O₃ profiles and stratospheric NO₂ profiles from SCIAMACHY limb observations.
- Combining absorption signatures in the Hartley, Huggins and Chappuis bands of O₃ makes the retrieval of O₃ profiles between 10 km and 75 km possible.

SAST Activities (II)

- Development of the TRUE method (Tangent height Retrieval by UV-B Exploitation) to retrieve tangent heights from limb UV-B scattering measurements.
 - Generalization of the Knee method. Theoretical Precision of 100m for tangent heights between 33 and 54 km.
- Implementation of line-by-line and ESFT algorithms into SCIARAYS for the NIR wavelength range.

Comparison of SCIAMACHY and POAM III ozone profiles

SCIAMACHY - POAM III coincidence on April 25, 2002



Rozanov: Differential retrieval employing O_3 Huggins and Chappuis bands

Savigny: 3 wavelength retrieval employing O_3 Chappuis bands