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## **Ozone profiles from SCIAMACHY lunar occultation** measurements: Retrieval and validation results

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Stratospheric number density profiles of ozone were retrieved from lunar transmission spectra measured by Scanning Imaging Absorption Spectrometer for Atmospheric Chartography (SCIAMACHY), over the high Southern latitude (60°S–90°S). The ozone profiles were retrieved for 2003 and 2004 data using the spectral window of 510-560 nm. In order to assess the accuracy of the retrieved profiles, a comparison of the retrieved ozone profiles with ozone profiles inferred from HALOE, POAM-III and SAGE-II were carried out. The validation results show that the quality of SCIA-MACHY ozone is within the accuracy of 10-25% in the altitude range of 20-45 km.