

GOMOS Aerosols

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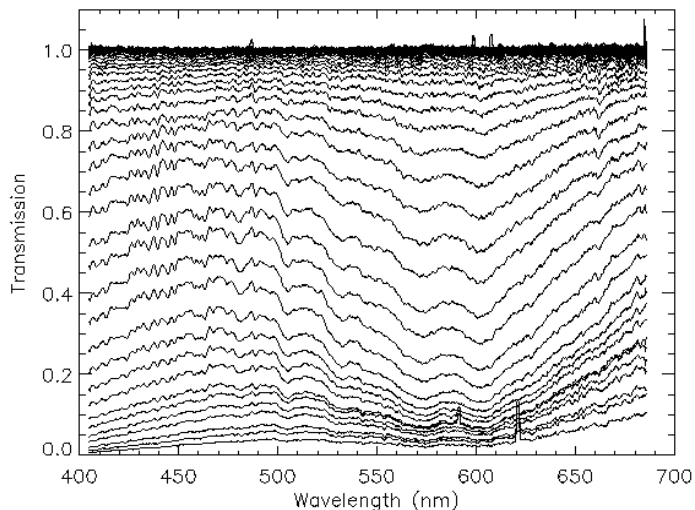
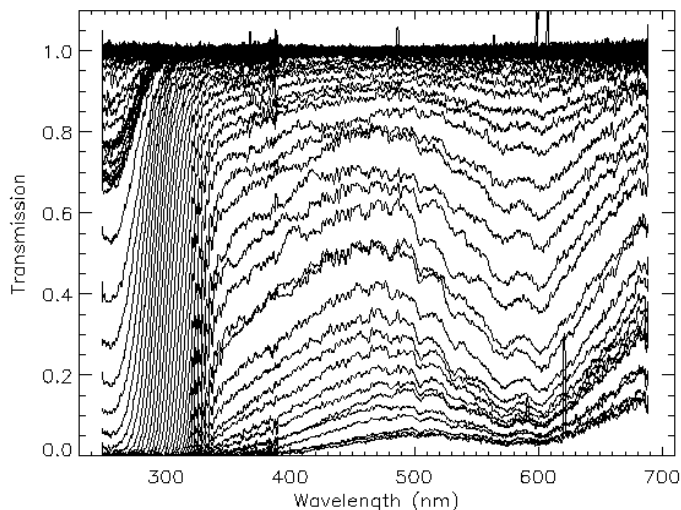
Balloon instruments

- SALOMON + LMD aerosol counter
(extinction and counting)
- MicroRADIBAL + LMD aerosol counter
(radiance, polarization and counting)
- ELHYSA, including the LMD aerosol counter

First campaign of these instruments with flights
few days apart between March 4 and 11, 2004, from Kiruna

Validation of GOMOS extinctions - recommendations
(from the analysis of AMON and SALOMON measurements) :

- Contribution of aerosols represented by a
third order polynomial in the 350-700 nm spectral range



- Effect of the **chromatic scintillation** strongly reduced by the use of a sliding average over 3 consecutive spectra

Gomos, Sept. 19, 2002,
 Aire sur l'Adour, $m=1.7$

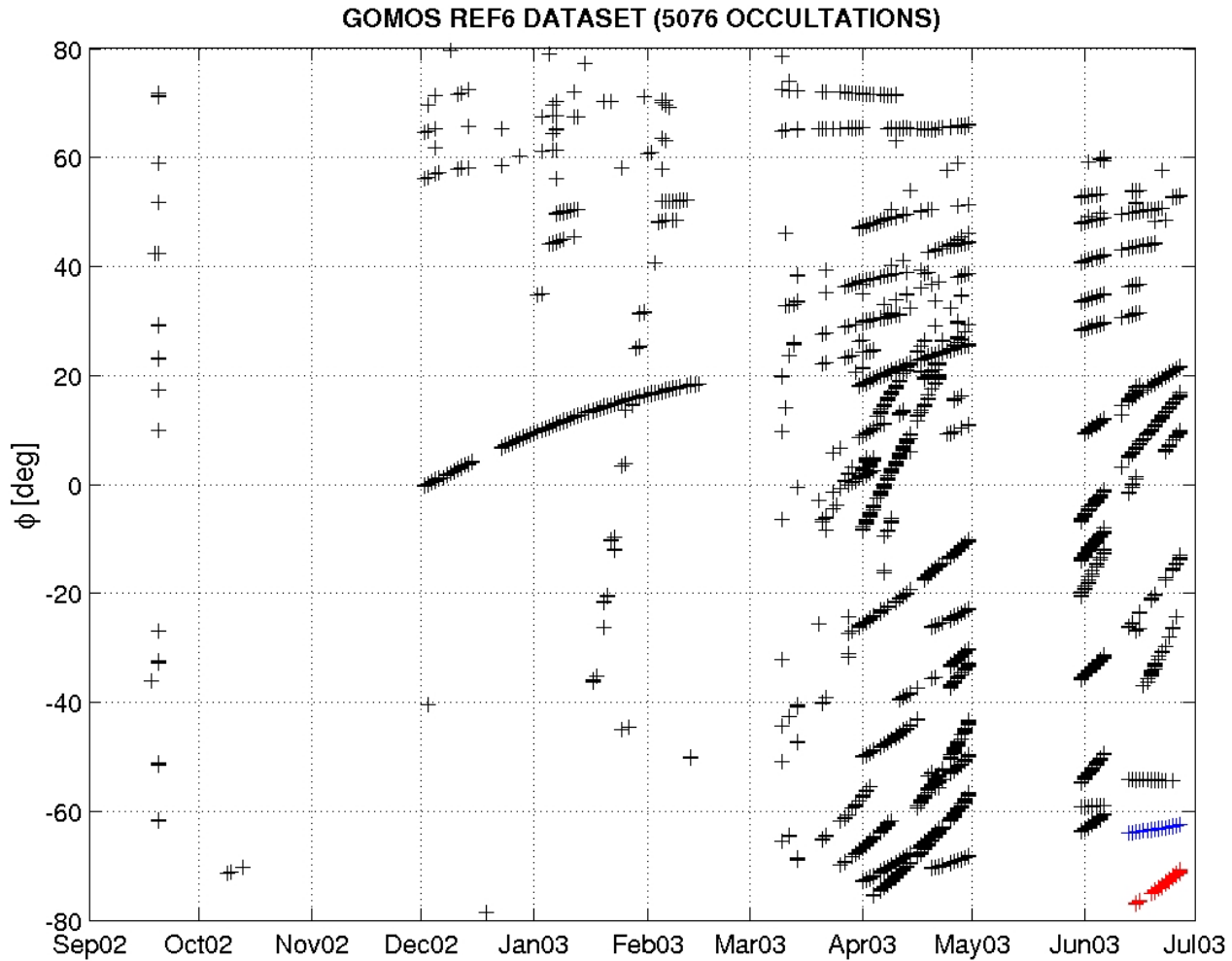
Interpretation of the measurements :

Retrieval of the aerosol size distribution without using the inaccurate log normal assumption

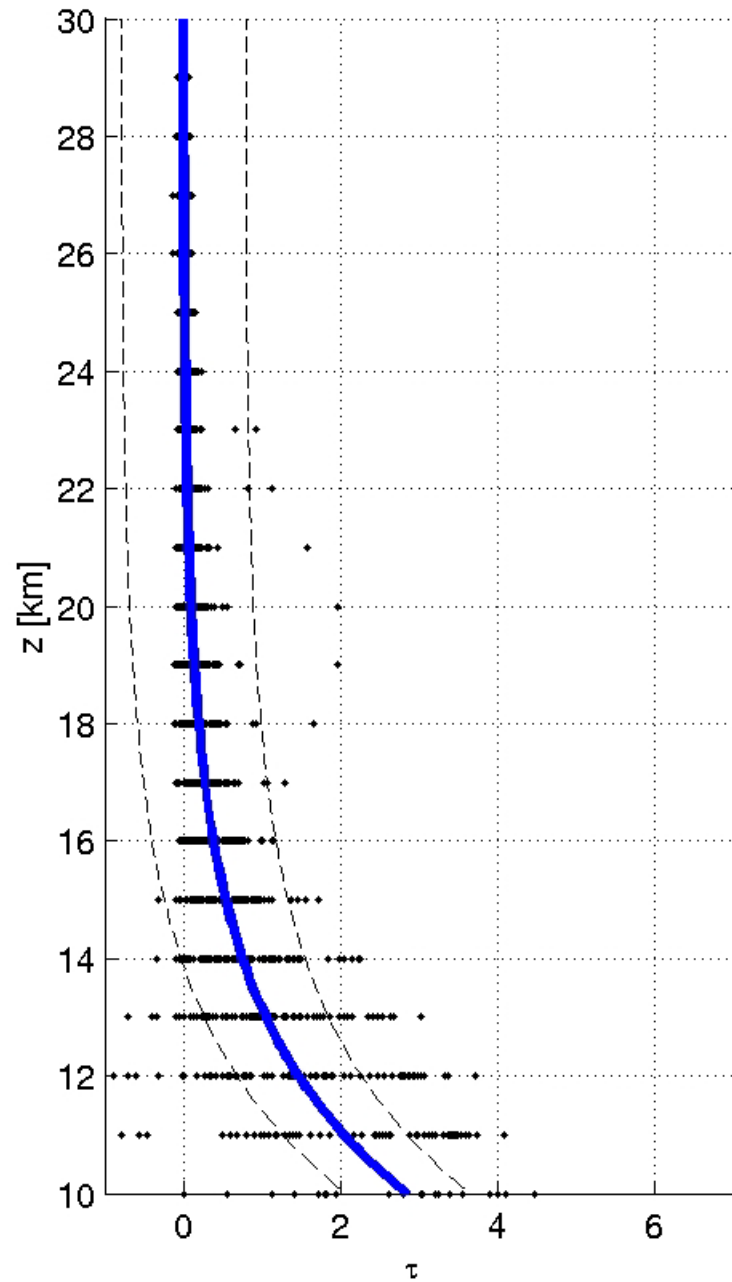
March 2004 GOMOS data not yet available ...

Final analysis available probably in June 2004

REF6 DATA SET (~5000 OCCULTATIONS)



S050



S094

