Atmos. Meas. Tech. Discuss., 6, C2317–C2320, 2013
www.atmos-meas-tech-discuss.net/6/C2317/2013/

Atmospheric Measurement Techniques Discussions

Interactive comment on "Stratospheric aerosol particle size information in Odin-OSIRIS limb scatter spectra" *by* L. A. Rieger et al.

L. A. Rieger et al.

landon.rieger@usask.ca

Received and published: 30 August 2013

Thank you for the comments.

- In 5.1., about Fig.9 "While the scattering angle dependence is clear in the Version 5 data... this is no longer the case with the coupled retrieval, denoted Version 6". This is too strong statement. Visual difference is moderate. Or, please, change Figure 9 on Fig.1 from discussion (the paper focused only on period before 2006).

  Figures 2 and 9 have been updated to focus on the period between 2002–2006. Additional altitudes and latitudes have also been added to show the relatively good agreement at higher latitudes in version 5, helping to explain the lack of im-

  provement when comparing with SAGE III. These have been attached as figures 1 and 2 below.

- When results for Angstrom coefficient for latitudes >20N and < 20S and period for 2005 to current moment will be published? Distribution for Angstrom coefficient in AltLat space is interesting for different months or, at least, seasons. Discussion of future plan will be useful for readers and for evaluation of efficiency of discussed method.

  The version 6 data, which has been processed up to mid 2012, is now publicly available with the other OSIRIS data products at odin-osiris.usask.ca. We will also include a description of future work in the revisions.

Interactive comment on Atmos. Meas. Tech. Discuss., 6, 5065, 2013.

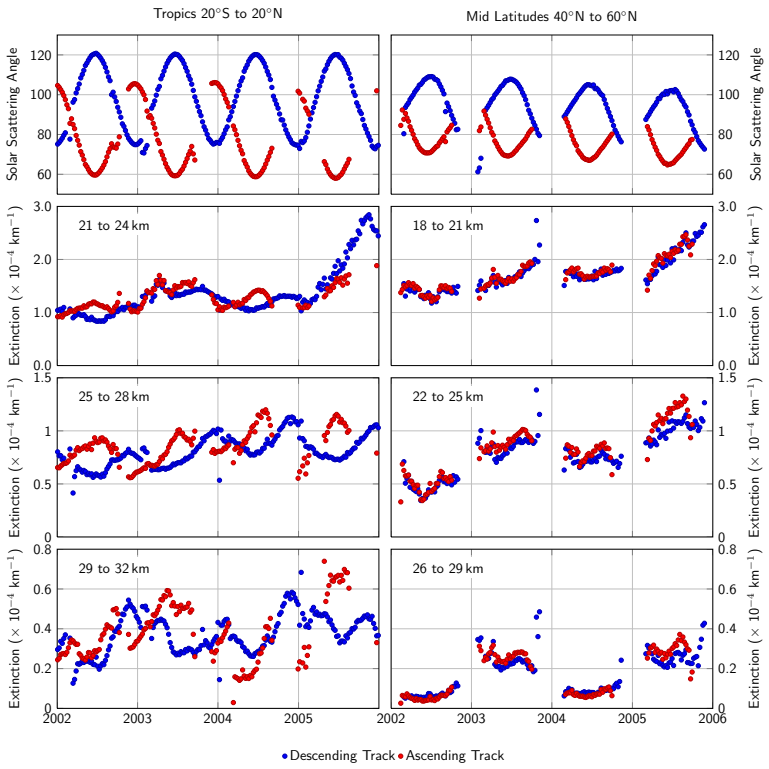

Fig. 1. Comparison of the ascending and descending node OSIRIS version 5 extinction measurements for several altitude and latitude bands.

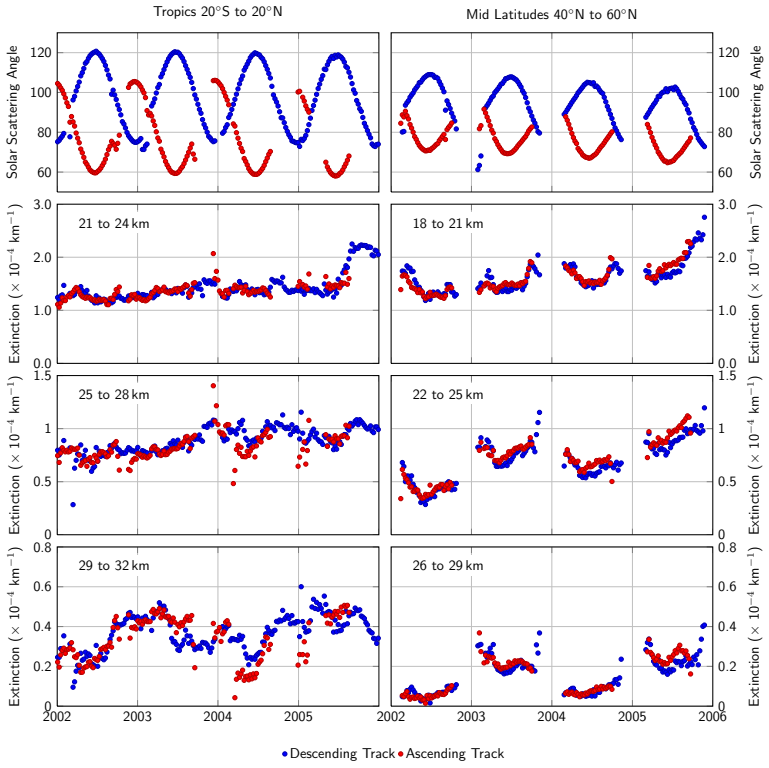

Fig. 2. Same figure 1, except using version 6 data.