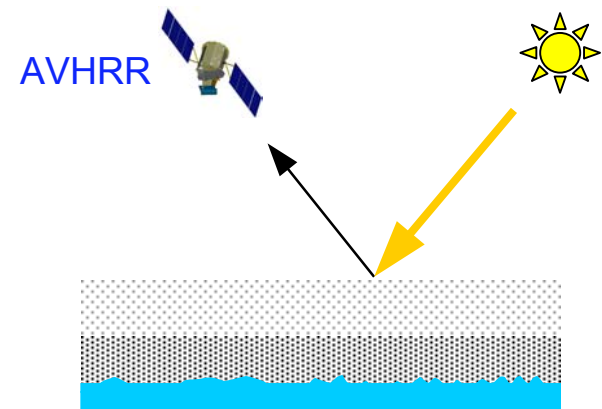
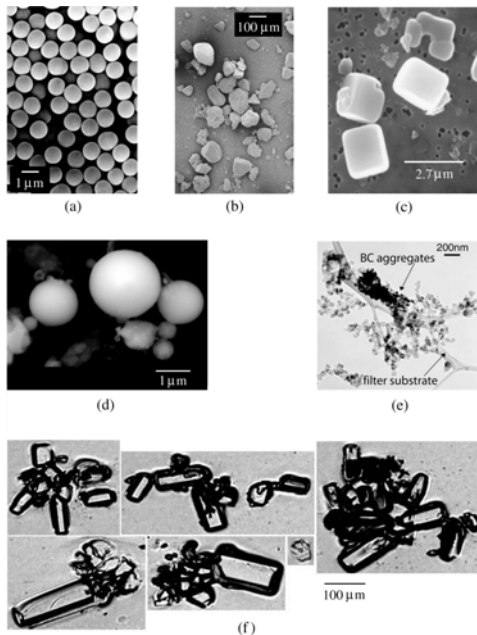


24-year AVHRR-derived climatology of aerosol optical thickness and size

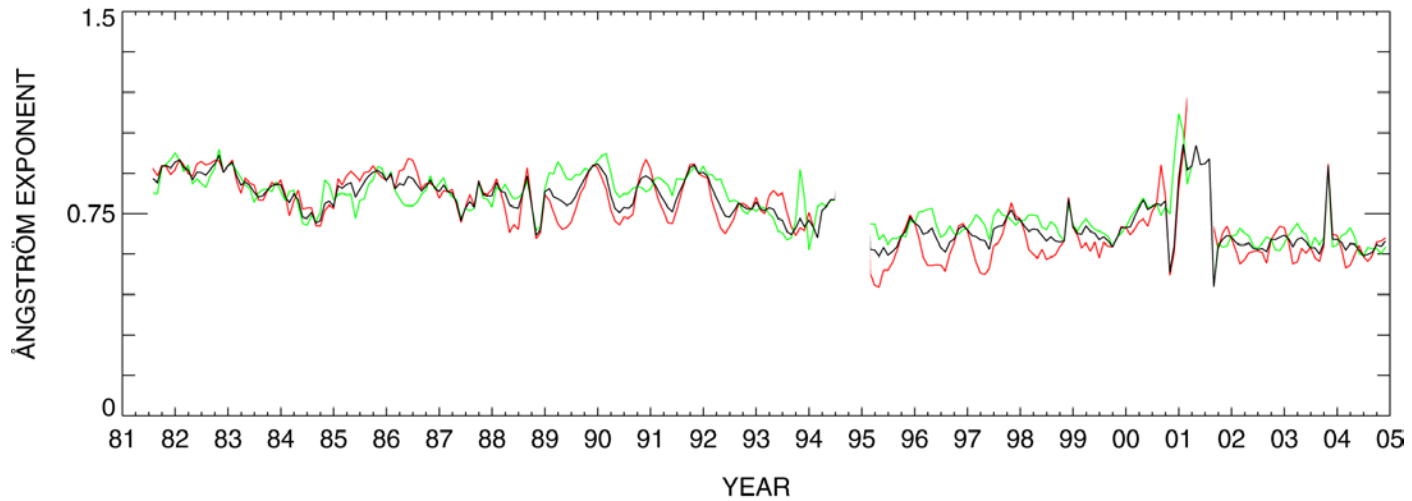
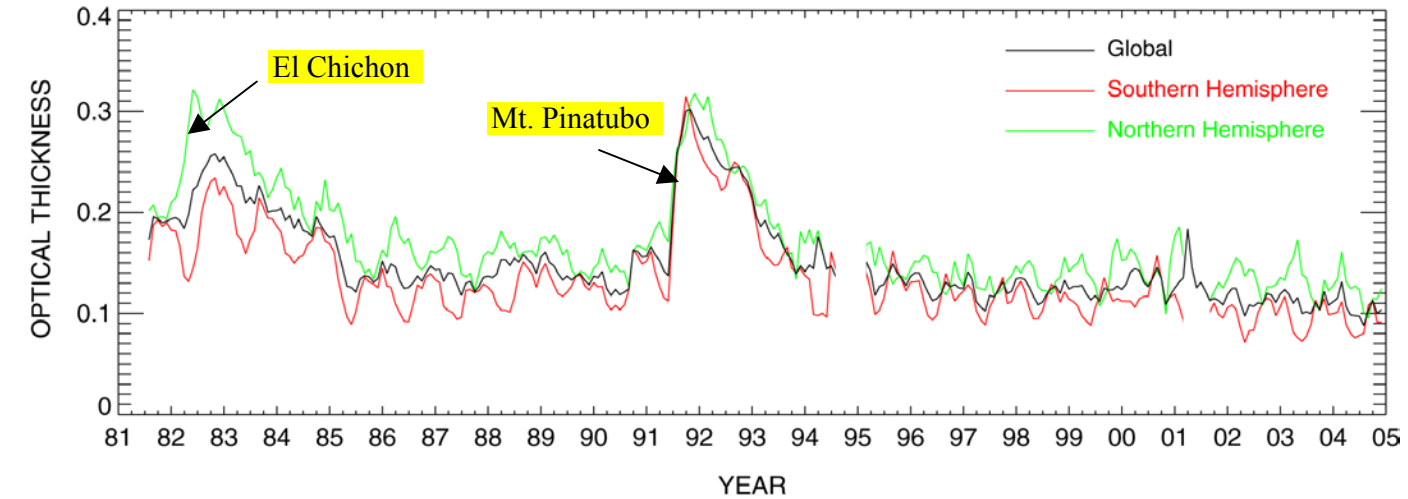
Michael Mishchenko, Igor Geogdzhayev, Bill Rossow, Li Liu, Brian Cairns,
Larry Travis, Andrew Lacis, Barbara Carlson

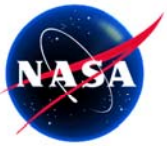
<http://gacp.giss.nasa.gov>

1. Two spectral channels (0.63 and 0.83 micrometers).
2. One viewing angle per pixel.
3. All model parameters are fixed except the total (column) aerosol optical thickness and the Angstrom parameter.
4. Simple look-up table approach.
5. State-of-the-art radiative transfer model.
6. The longest available satellite record.

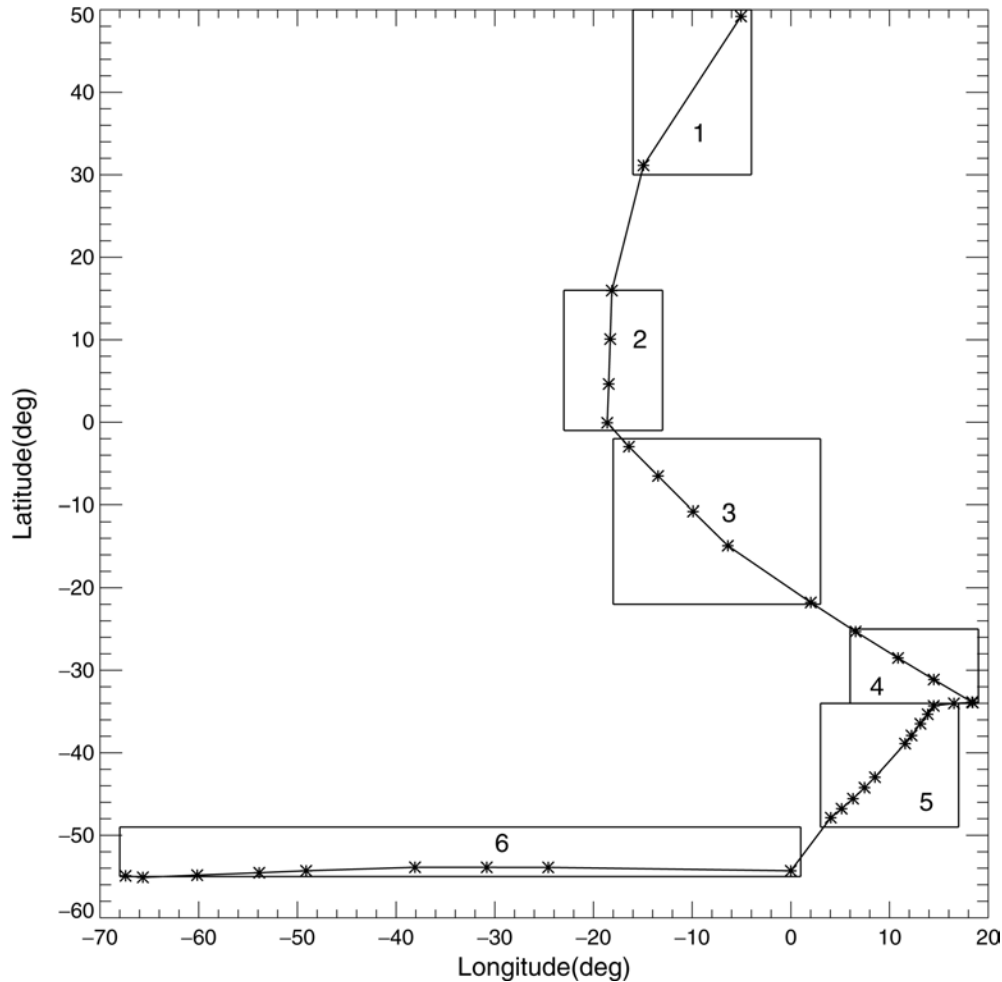


Global long-term GACP record

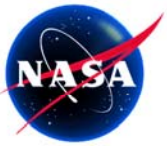




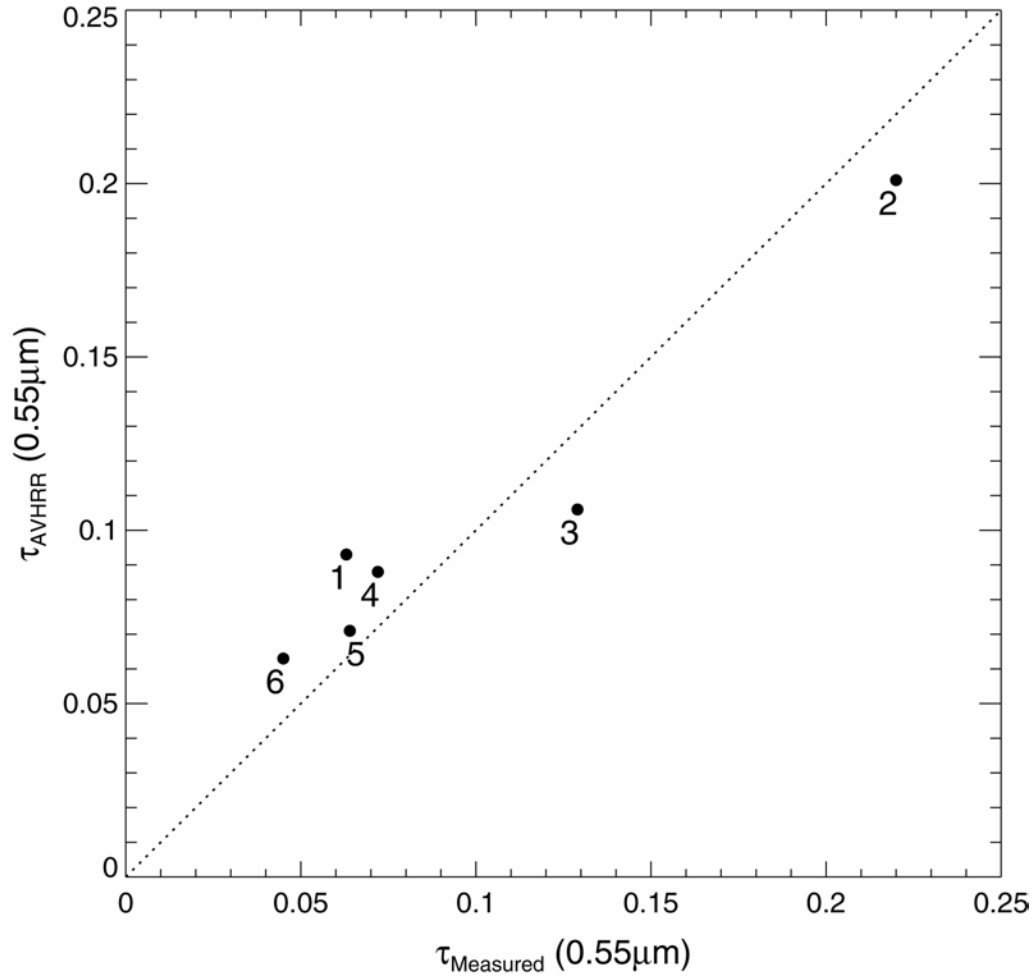
Validation vs ship-borne sunphotometer data



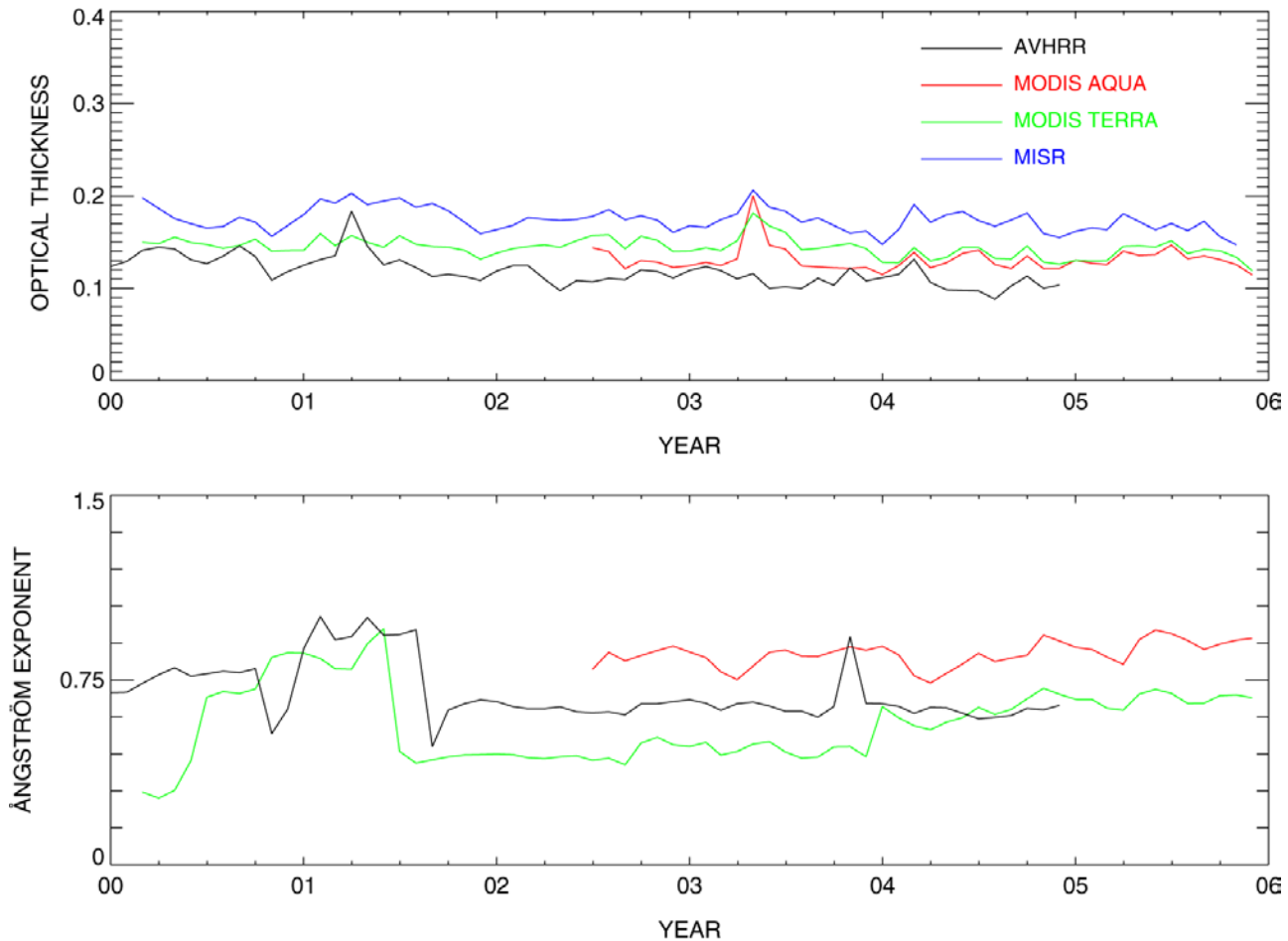
The measurements cover the period from 10/16/04 to 12/6/04
(Smirnov *et al.* 2005; Session A22B, today 10:50 am)



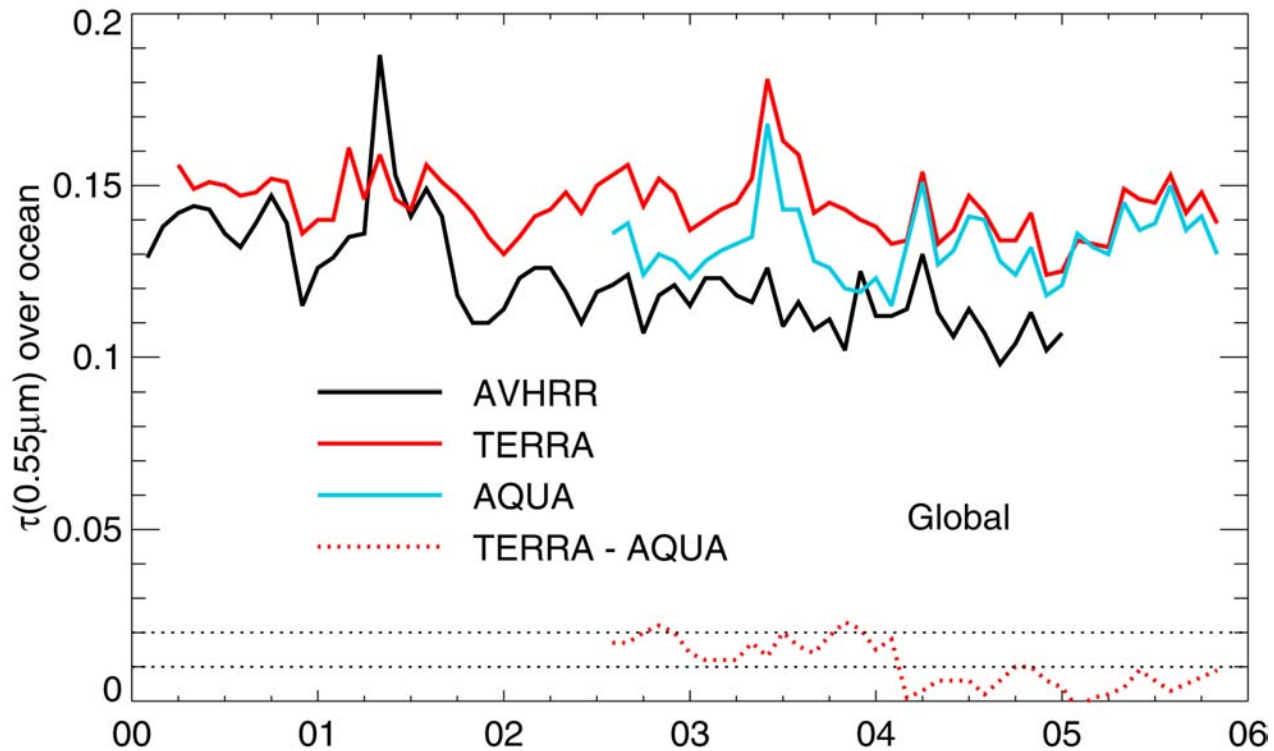
Validation vs ship-borne sunphotometer data

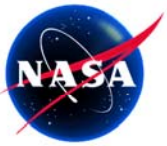


Comparison with MODIS and MISR

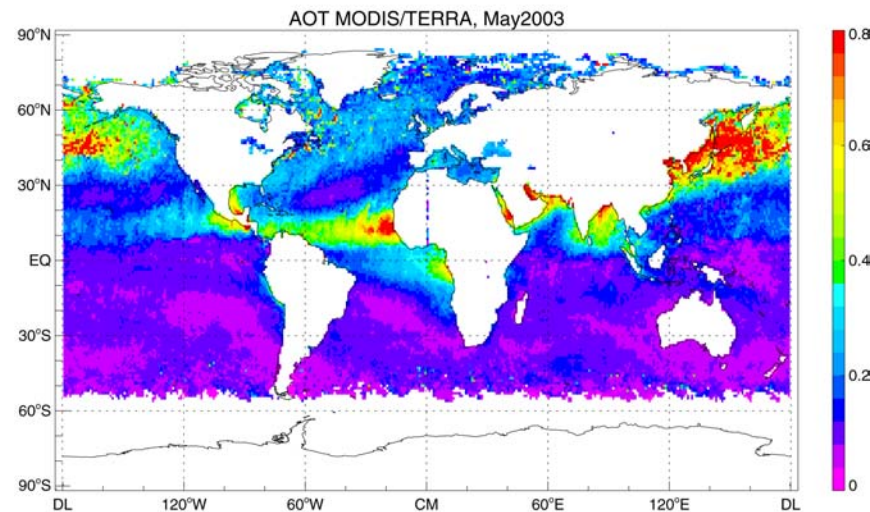
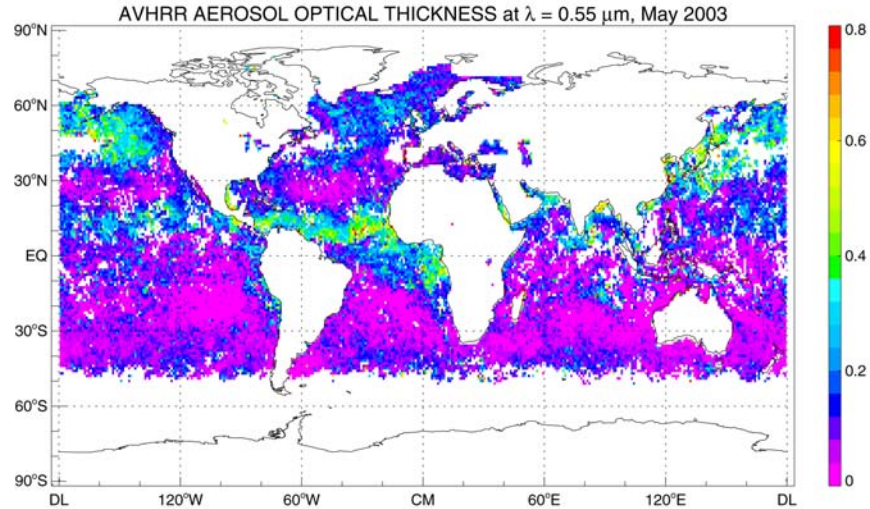


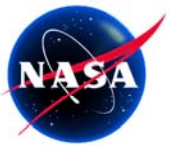
Comparison with MODIS





Comparison with MODIS





Comparison with MODIS, MISR, and POLDER

