MISR L3 Joint Aerosol (JOINT_AS)

0.01

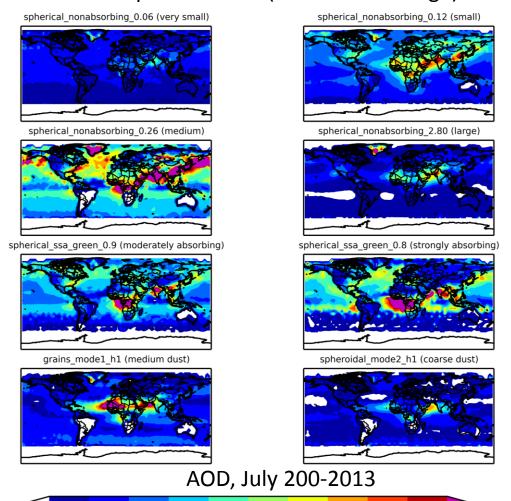
0.06

0.12

0.18

- Global statistical summaries of MISR Level 2 aerosol optical depth by particle type: multivariate histograms.
- Resolution: 5 x 5 degrees & monthly
- Key information: marginal distributions of 8 aerosol types and covariance matrix between different types.

8 types: spherical nonabsorbing (4 sizes), spherical absorbing (moderate and strongly), and nonspherical dust (medium and large)



0.30

0.24

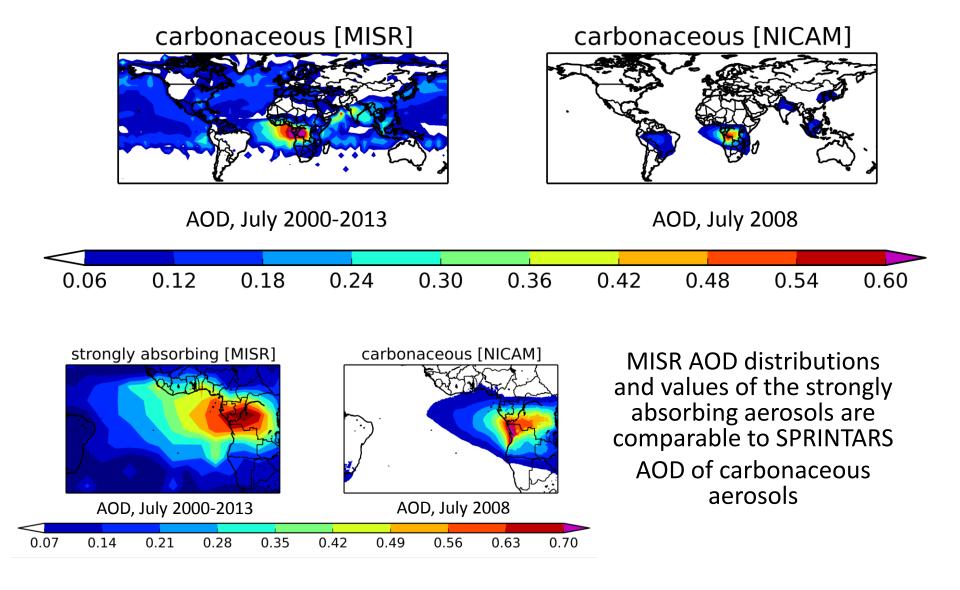


8 types aerosol in MISR -> 4 types in SPRINTARS

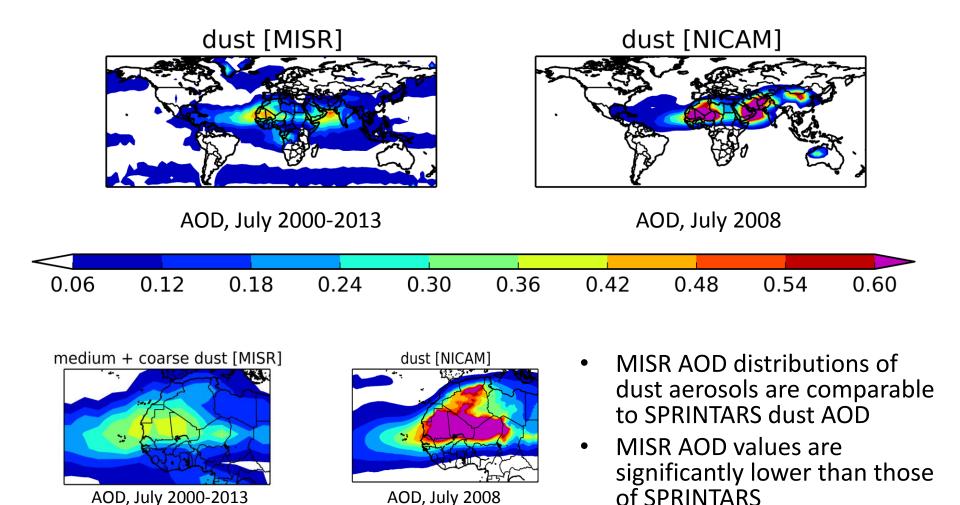
MISR	SPRINTARS
strongly absorbing aerosols	carbonaceous aerosols
medium + coarse dust	dust
very small + small + medium non absorbing aerosols	sulfate
Coarse non-absorbing?	Sea-salt ?

Moments of the AOD in SPRINTARS were calculated at 5°x5° MISR grid points.

Carbonaceous aerosols



Dust aerosols



0.35

0.28

0.07

0.14

0.21

0.42

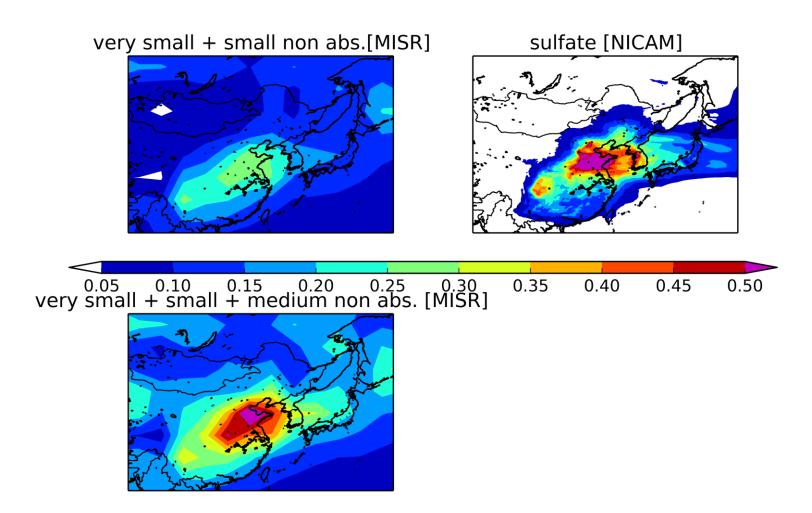
0.49

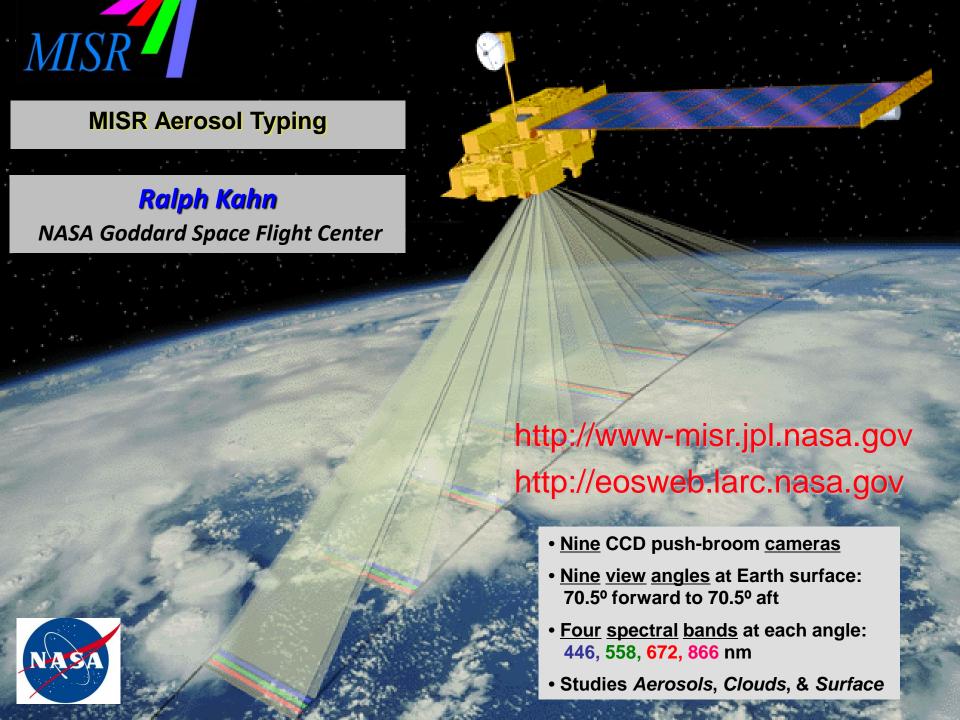
0.56

0.63

0.70

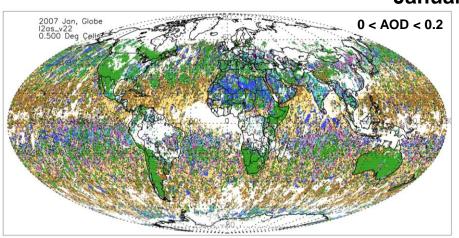
Sulfate aerosols in East Asia

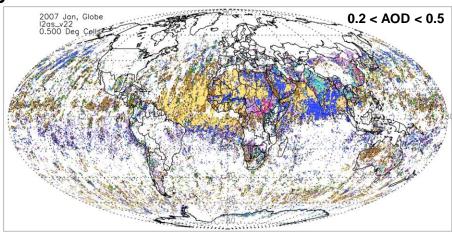




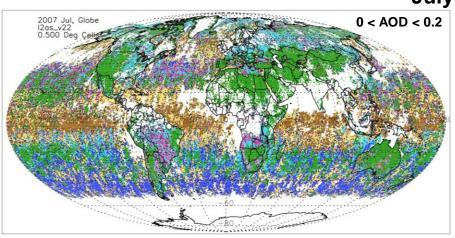
Global Distribution of MISR Most Frequently Retrieved Mixture Group

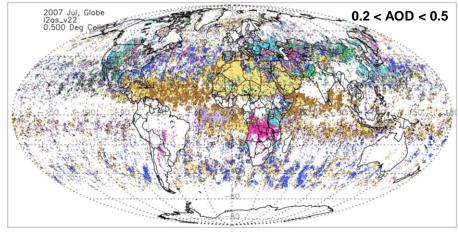
January 2007





July 2007





Mixture Group

Spherical, non-absorbing

Non-spherical

31-40 41-50 51-62 63-70 71-74

Spherical, absorbing

