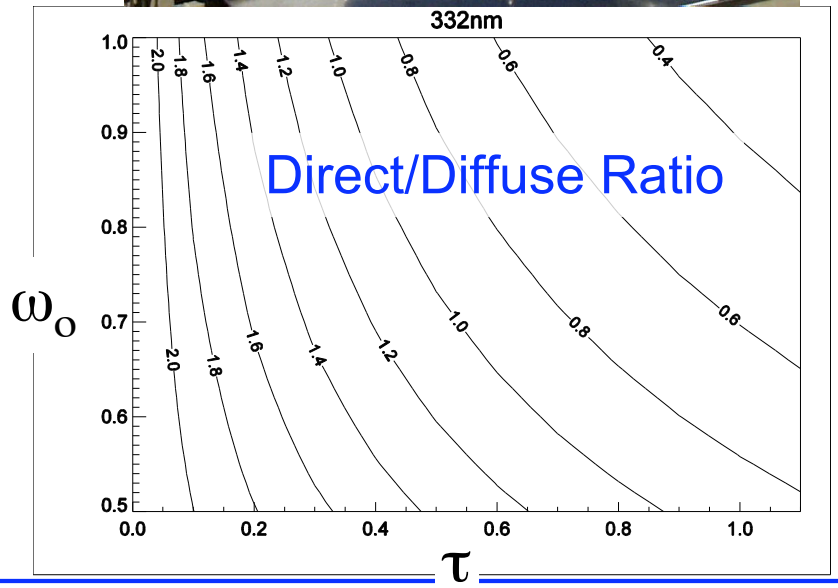
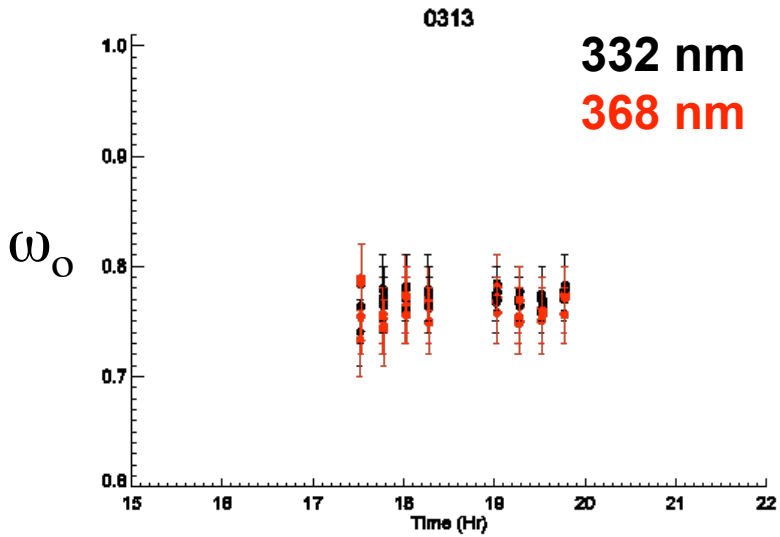
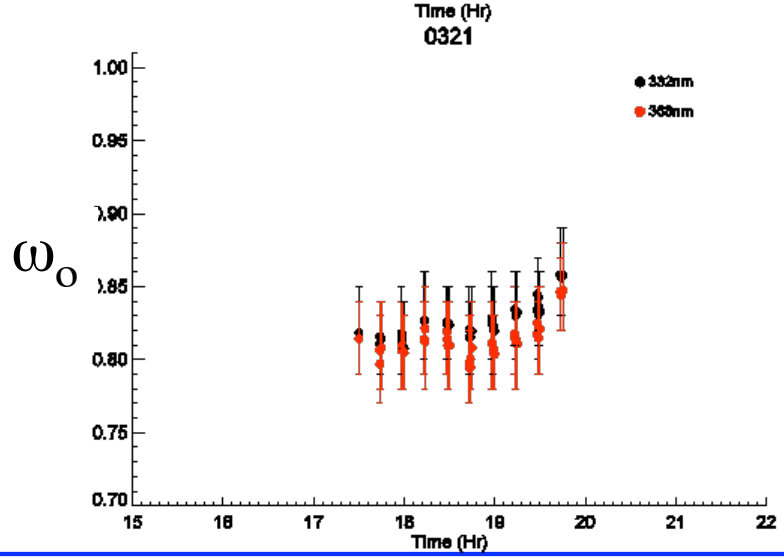
Aerosol Single Scattering Albedo

MIRAGE @ T1, 332 and 368 nm

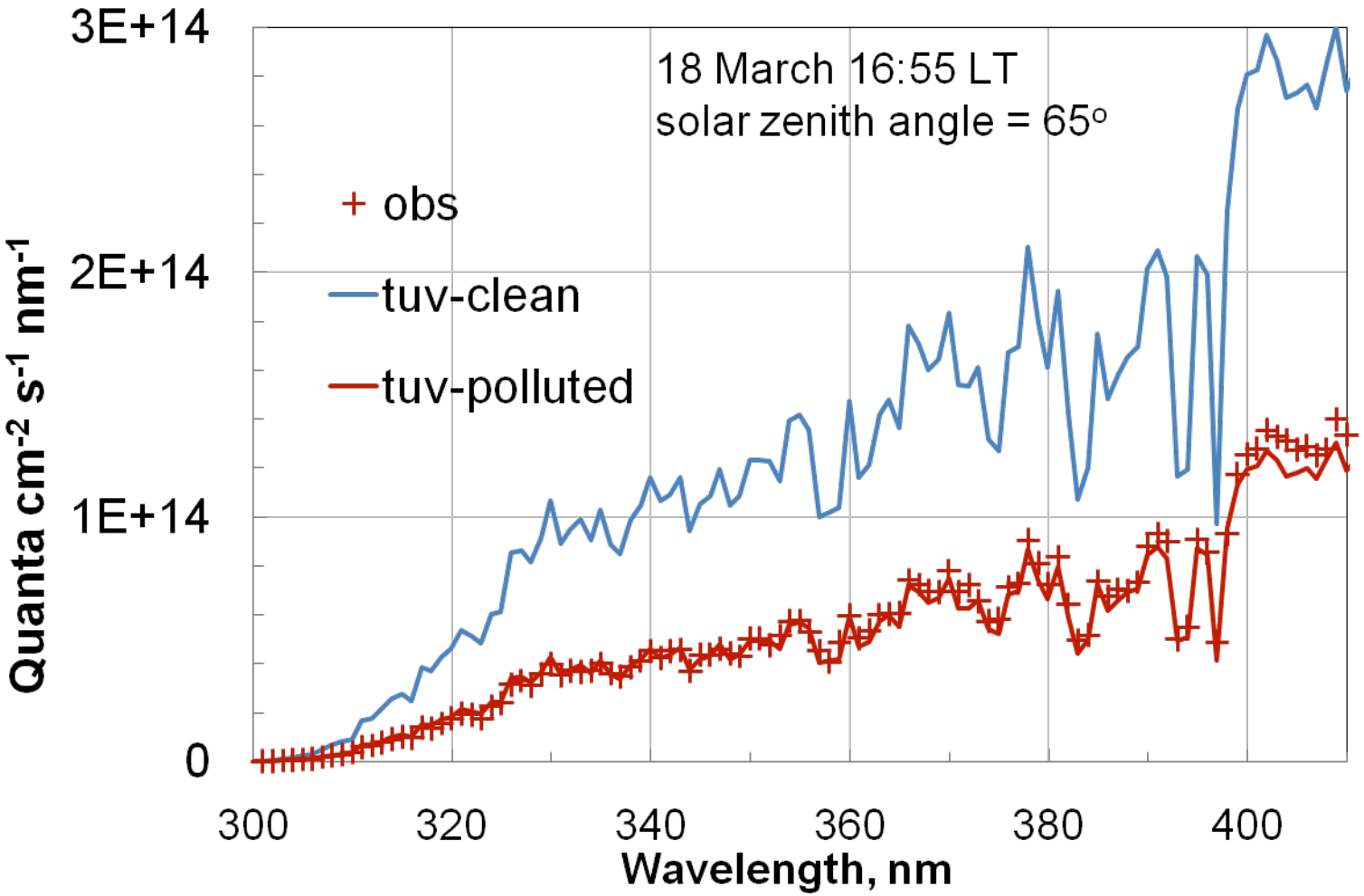






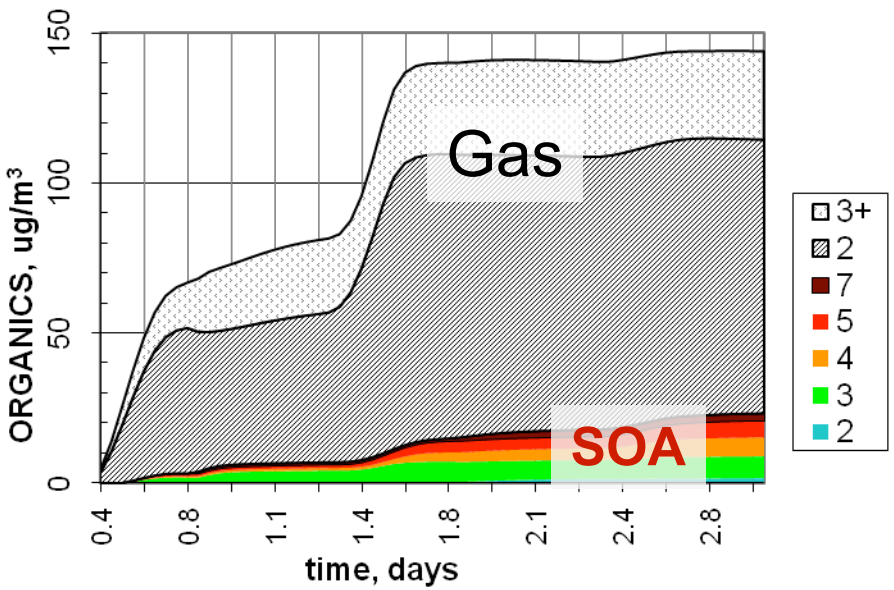
C. Corr, N. Krotkov, S. Madronich, J. Slusser, B. Holben, W. Gao, J. Flynn, B. Lefer, and S. Kreidenweis, submitted, ACPD, 2008

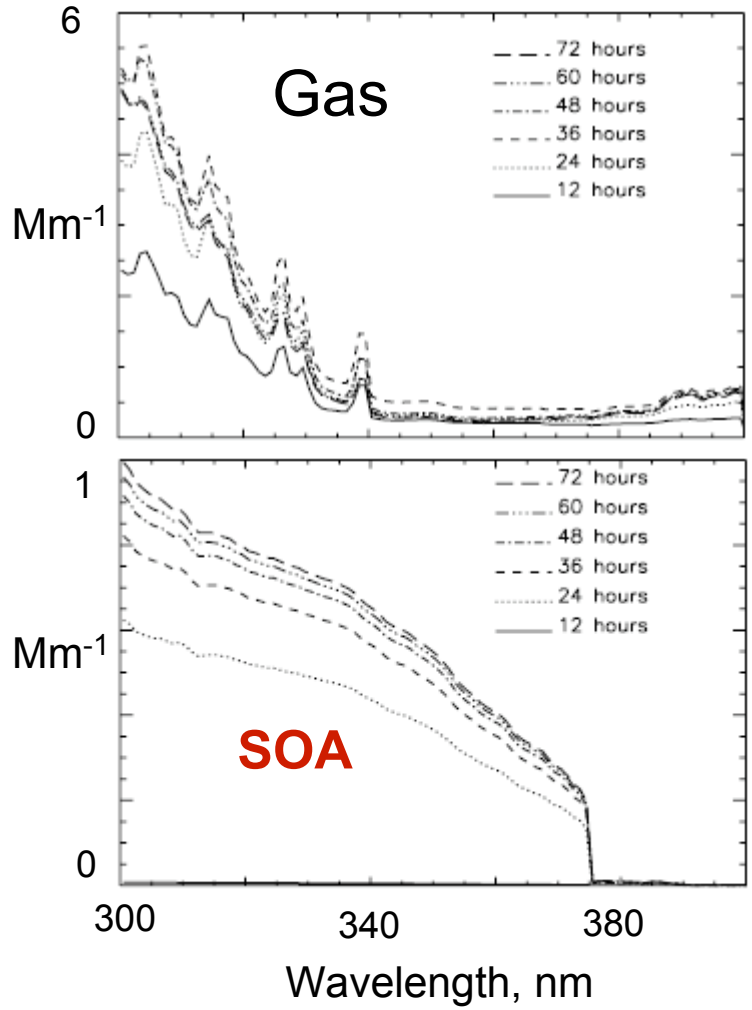
So-what #1:
UV Actinic Flux Reduction → Slower Photochemistry



Madronich et al., in prep.

So-what #2:
UV Absorption: Modeled vs. Observed





Absorption optical depth from modeled gas and aerosol composition:

~ 1 Mm^{-1} x 3 km ~ 0.003

Observed: $\tau(1-\omega) = 1x(1-0.8) = 0.2$

Two order of magnitude discrepancy!

Lee-Taylor et al., in prep.