

ALH from First Principles: Application to OCO-2

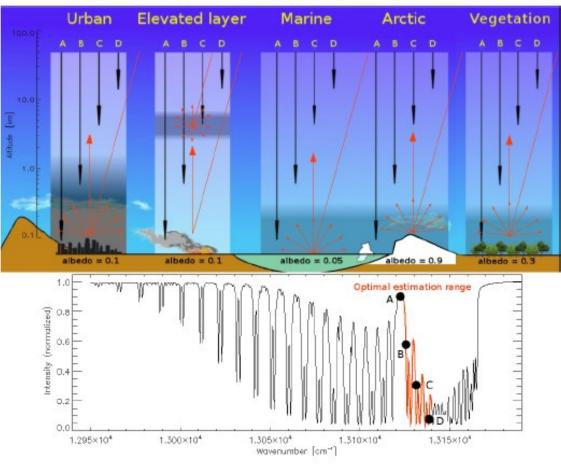
Vijay Natraj

Jet Propulsion Laboratory, California Institute of Technology

CEOS AC-VC Meeting, Brussels October 25, 2023



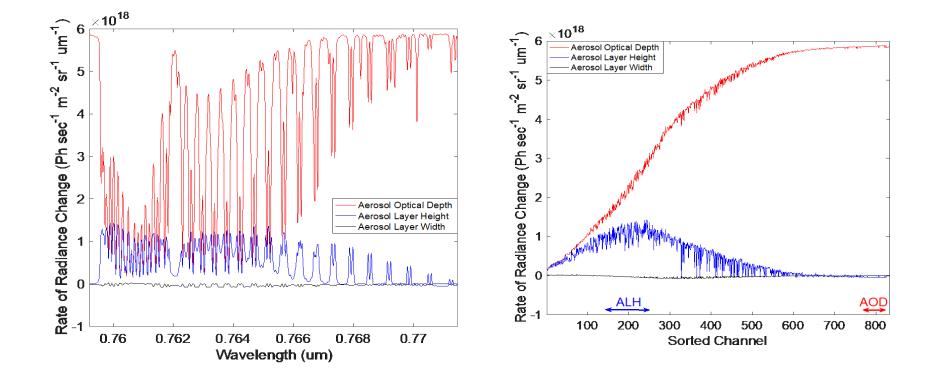
Oxygen Absorption and Aerosol Vertical Profile



Colosimo et al. (2015)

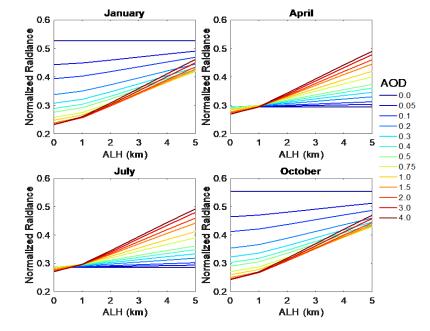


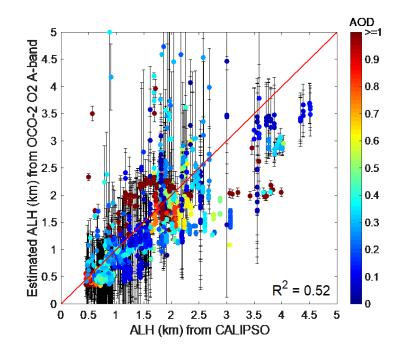
OCO-2 Sensitivity to AOD, ALH and ALW



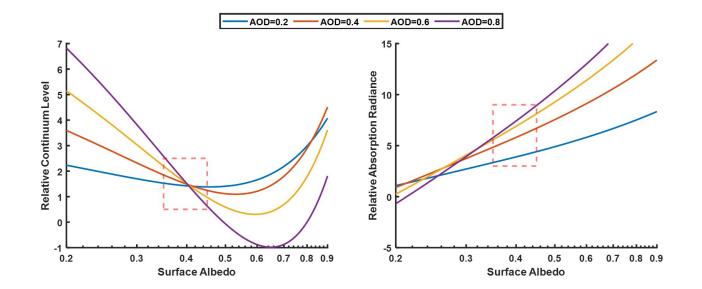


ALH Retrievals











Synergies in Aerosol Remote Sensing



Multi-wavelength AOD, Angstrom exponent

Polarization pherical/non-spherical; aerosols/surface

Hyperspectral vertical distribution





