

Unified Algorithm for aerosol characterization from OCI

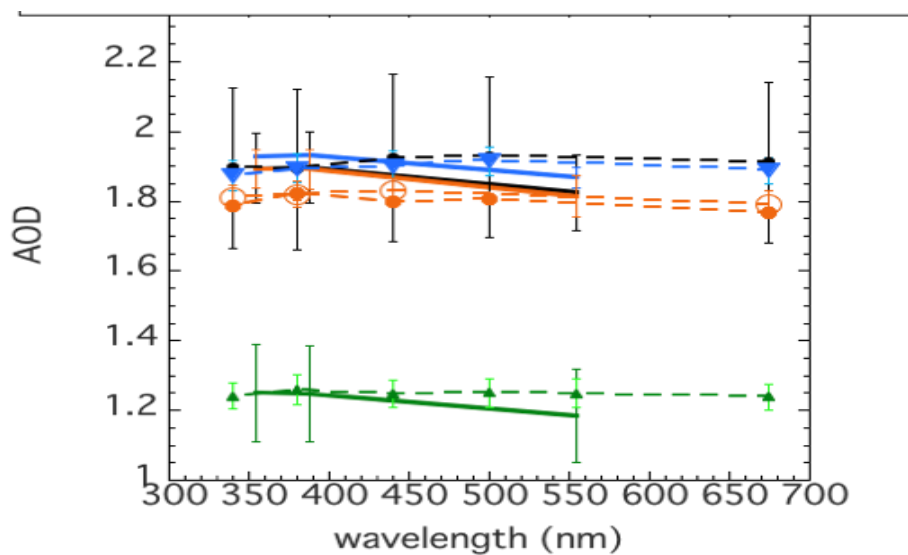
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PACESAT meeting
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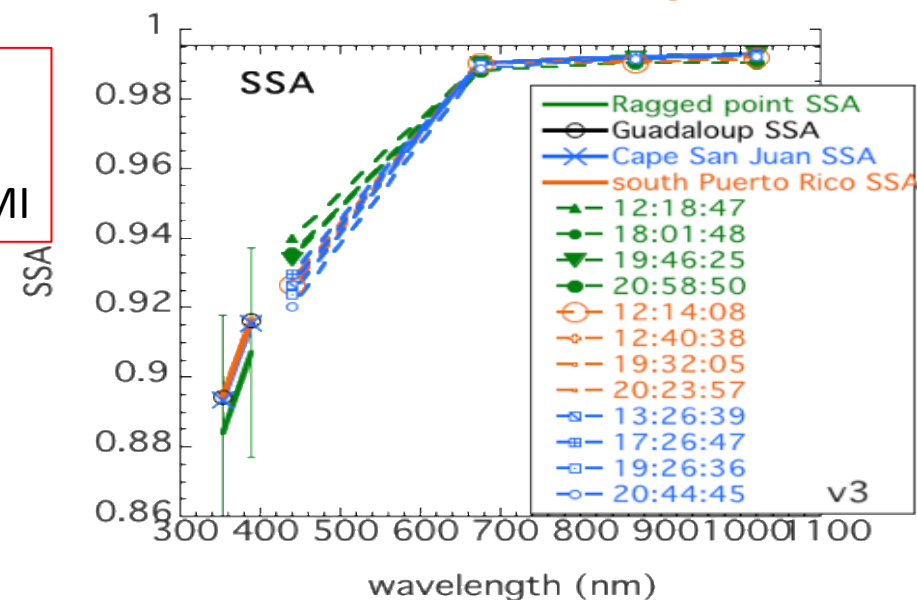
Dust event: VIIRS 22 June 2020

AOD: solid = OCI retrieval
dashed = AERONET



Validation of
Retrieval using
VIIRS with TropOMI

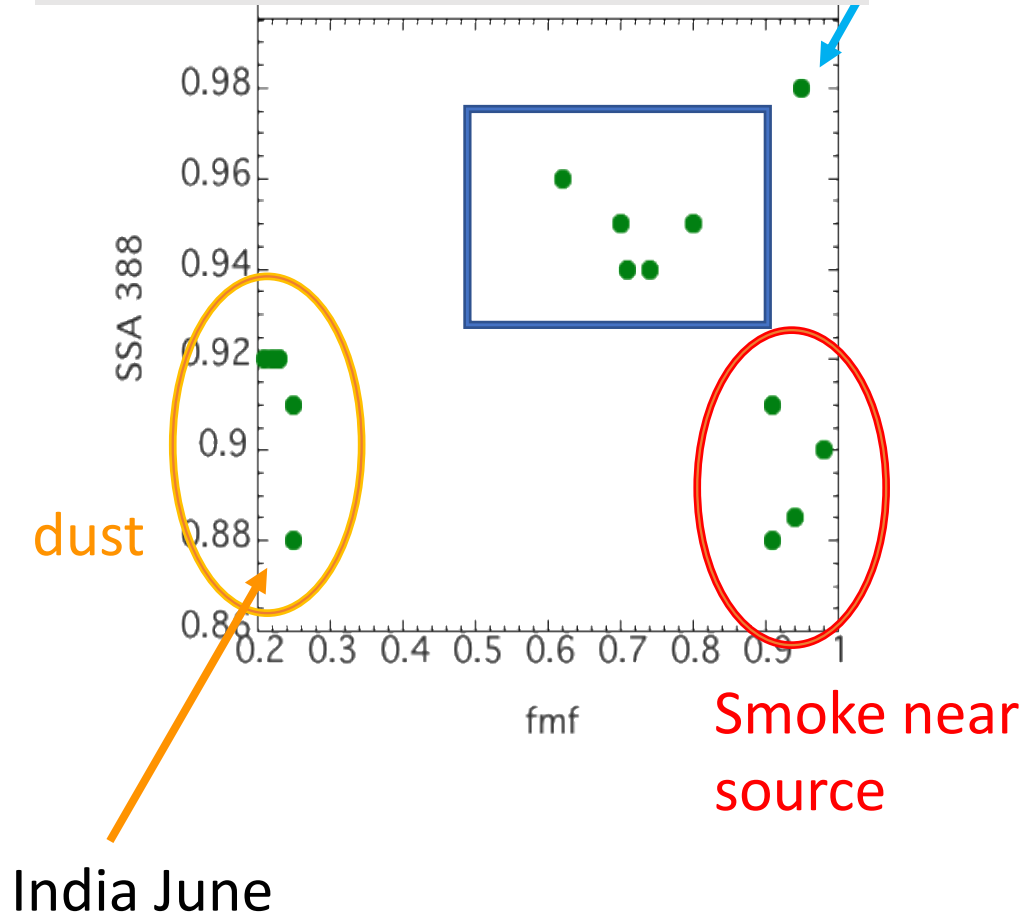
Ragged point: $fmf = 0.25 \pm 0.02$; height = 2.6 ± 0.7 km
Guadaloup: $fmf = 0.22 \pm 0.02$; height = 3.3 ± 0.3 km
CapeSanJuan: $fmf = 0.21 \pm 0.01$; height = 2.4 ± 0.07 km
South P.R. $fmf = 0.23 \pm 0.01$; height = 2.2 ± 0.04 km



Stuff in the middle box
Is transported SAm smoke
And KAUST

India November

SSA vs. fine mode fraction



The OCI retrieval will produce
Aerosol loading (AOD)
Aerosol absorption ($1 - \text{SSA}$)
Aerosol size ($1 - \text{fmf}$)
Aerosol layer height