Multi-Sensor Aerosol Products Sampling System (MAPSS)

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Satellite Remote Sensing of Dust, Fires, Smoke, and Air Quality, July 10-12, 2018
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http://giovanni.gsfc.nasa.gov/aerostat/

- MAPSS is a portal for evaluating and comparing various aerosol datasets with AERONET
Step 1: Select a Station

Enter a station name or click browse to make a selection using a map.
Step 2: Select Plot Type and AERONET Measurement

Select: Scatter Plot

Select: AERONET aerosols, Ver. 2
Select: AOD - interpolated
Select: AOD at 550 nm
Select: Mean

Lastly, click: Add
Selected Measurements Will Appear
Step 3: Select Satellite Measurement

Select: MODIS aerosols L2 (Aqua), ver. 006
Select: AOD 550nm-combined
Select: AOD 550nm-combined
Select: Mean

Lastly, click: Add
X and Y Axis Information Will Appear in the Selected Measurements Section

These are the two parameters that will be compared in the analysis.
Step 4: Select a Date Range

Make sure both datasets are available for the selected range. You can verify this by clicking here.
Step 5: Click Plot Data and Wait for Results
Exercise Questions:

• Which two parameters were compared?

• What is the location of the AERONET station you selected?

• Describe (correlation, slope, quality, etc.) the comparison of satellite AOD to AERONET in your region.