

# AERONET

## AEROSOL ROBOTIC NETWORK

30 Years of Observations

(<https://aeronet.gsfc.nasa.gov/>)

## AERONET Overview and Updates

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**SPARTAN Science Team Meeting, May 18, 2023**

<https://aeronet.gsfc.nasa.gov>



**AERONET:** Optical, microphysical, and radiative properties for aerosol

**AERONET-OC:** Normalized Water Leaving Radiances

**MAN:** AOD over oceans/land

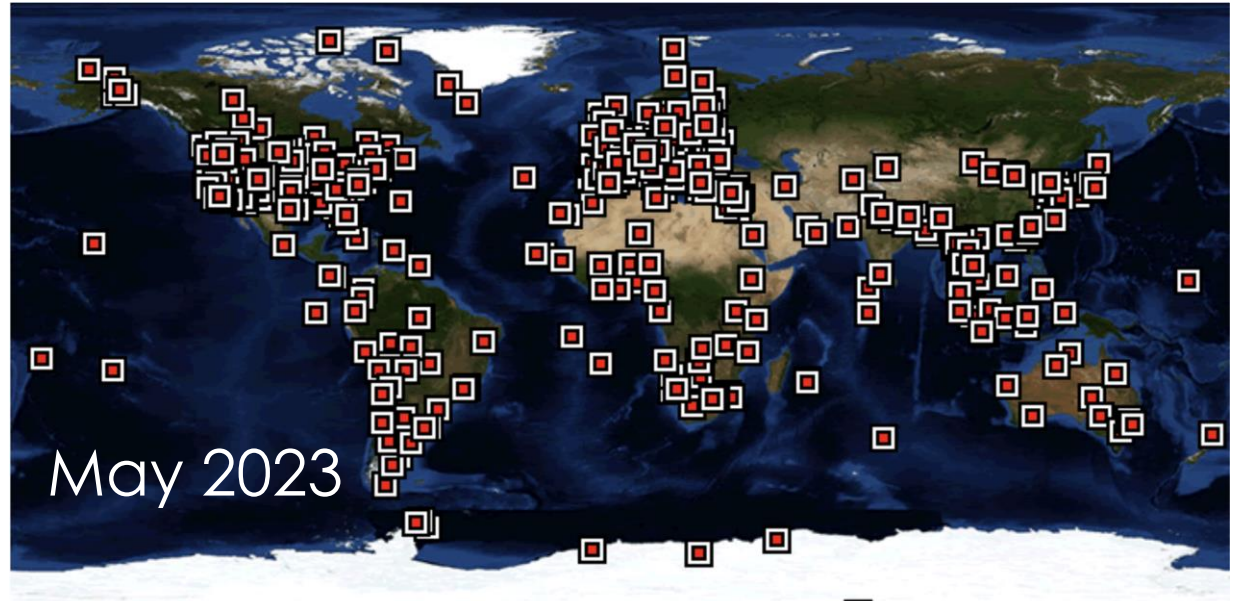
**SolRad-Net:** solar flux network

**Research:** Network algorithms, validation, aerosol properties

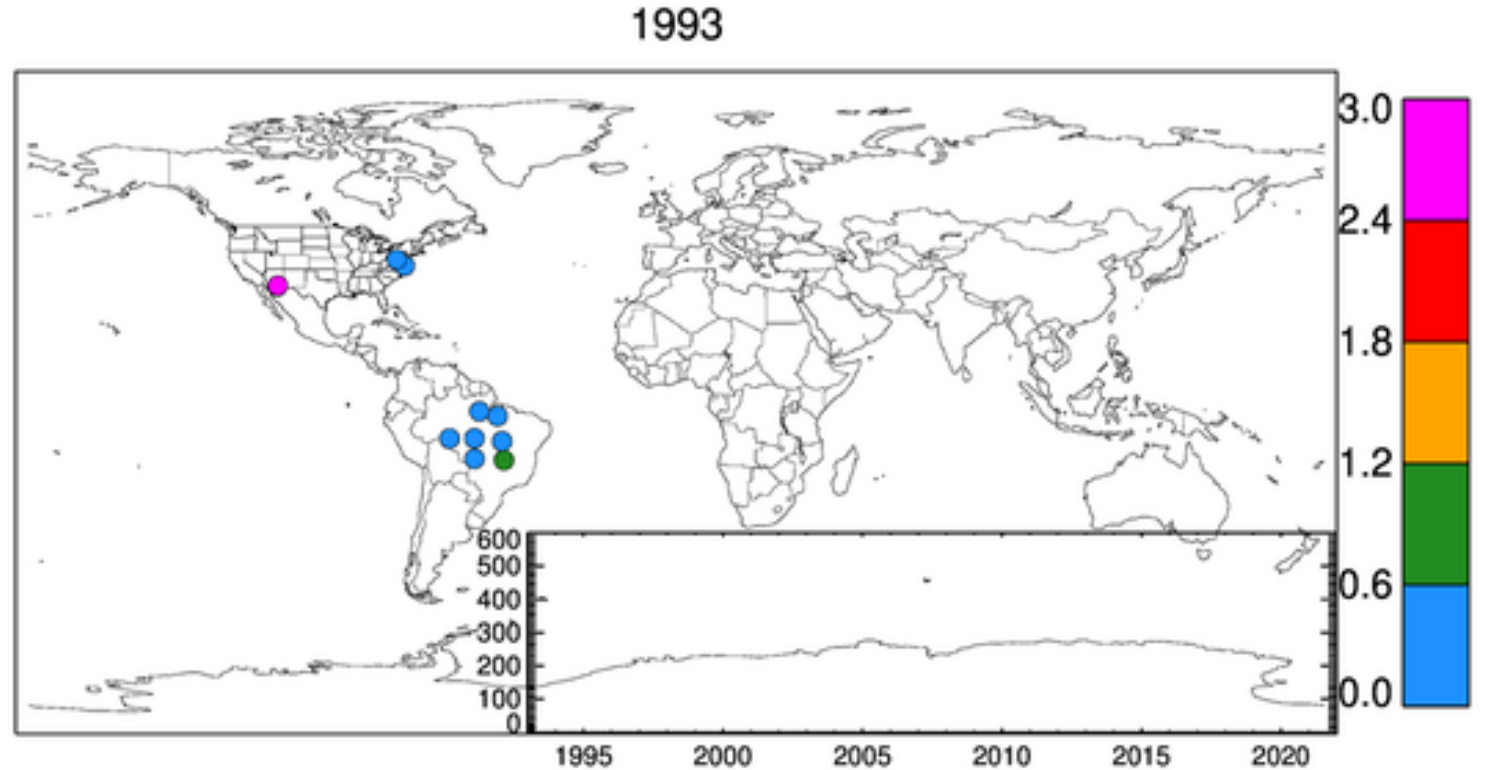
**Mission:** MODIS, VIIRS, MISR, GOES, TEMPO, PACE, MAIA, AOS



# Celebrating 30 Years of AERONET



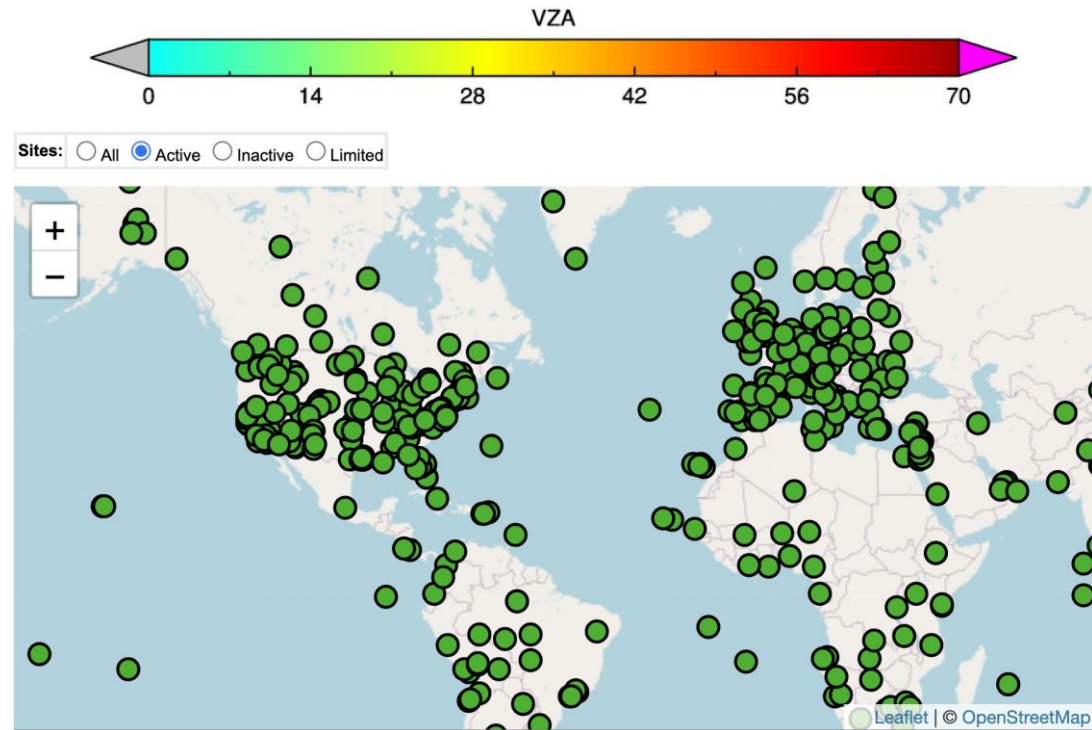
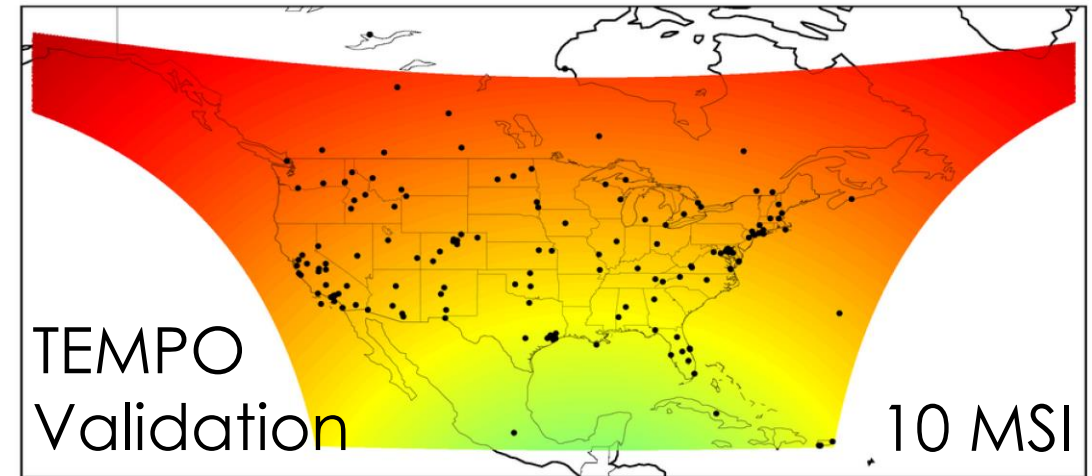
# 30 Years of Aerosol Measurements



- Since 1993
- Network of Networks
- ~538 Active Stations
- ~ 1500 All time stations with ~1.7 million days of data
- 102 countries and territories

# Current Operation and Updates

- The network is being upgraded with a Model-T instrument.
- Continuing research on cloud screening, calibration improvement, and new product development
- Provisional Lunar data are available.
- New Calibration site in Taiwan
- Supporting field campaigns (STAQS, MAGPI, SARP-East, AEROMMA, GOTHAM, ARCSIX, ASIA-AQ)
- Expand presence in Asia and Africa
- Website, data format, data distribution



# AERONET & SPARTAN

- How best the two networks continue to collaborate?
- Identify regions of common interest (science, AQ needs, mission) for new sites
- Connecting with satellite missions
- How best data from two networks can be served to the community?
- Is there a potential to collocate with other measurements networks (i.e. AirNow, Pandora, DoSAir)
- Collaborative research

