AERONET Overview and Updates

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SPARTAN Science Team Meeting, May 18, 2023
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

https://aeronet.gsfc.nasa.gov
Celebrating 30 Years of AERONET

May 1993

May 2023
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, GOTHAAM, 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