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**Goal 1:** Analyze Aerosol Observing System (AOS) and Tethered Balloon Sonde (TBS) measurements for seasonal and diurnal cycles (FY23-24 FICUS)

**Goal 2:** Study Supermicron and Bioaerosol during the SAIL Supermicron Bioaerosol Field campaign (FY22-FY23 ARM)

**Wideband Integrated Bioaerosol Sensor (WIBS)**

June – Sept 2022, Mar – June 2023
• PM$_1$ is well-correlated at the two sites and has a diurnal cycle at M1 that is not observed at S2 (AOS)
• PM$_{10}$ is not well-correlated between the sites
• AOS: Elevated supermicron events observed in May
• AOS and TBS: Submicron biomass burning event
SAIL Aerosol Regimes and Processes: Results

- Timeseries of different types of fluorescent particles changed during the 3-month initial deployment.
- Offline filter samples of bioaerosol also were collected and are being analyzed.
• Initial WIBS deployment sampled 54 rain events from June 15 – Sept 13, 2022
• Example below of one event showing the fluorescent particle type time series