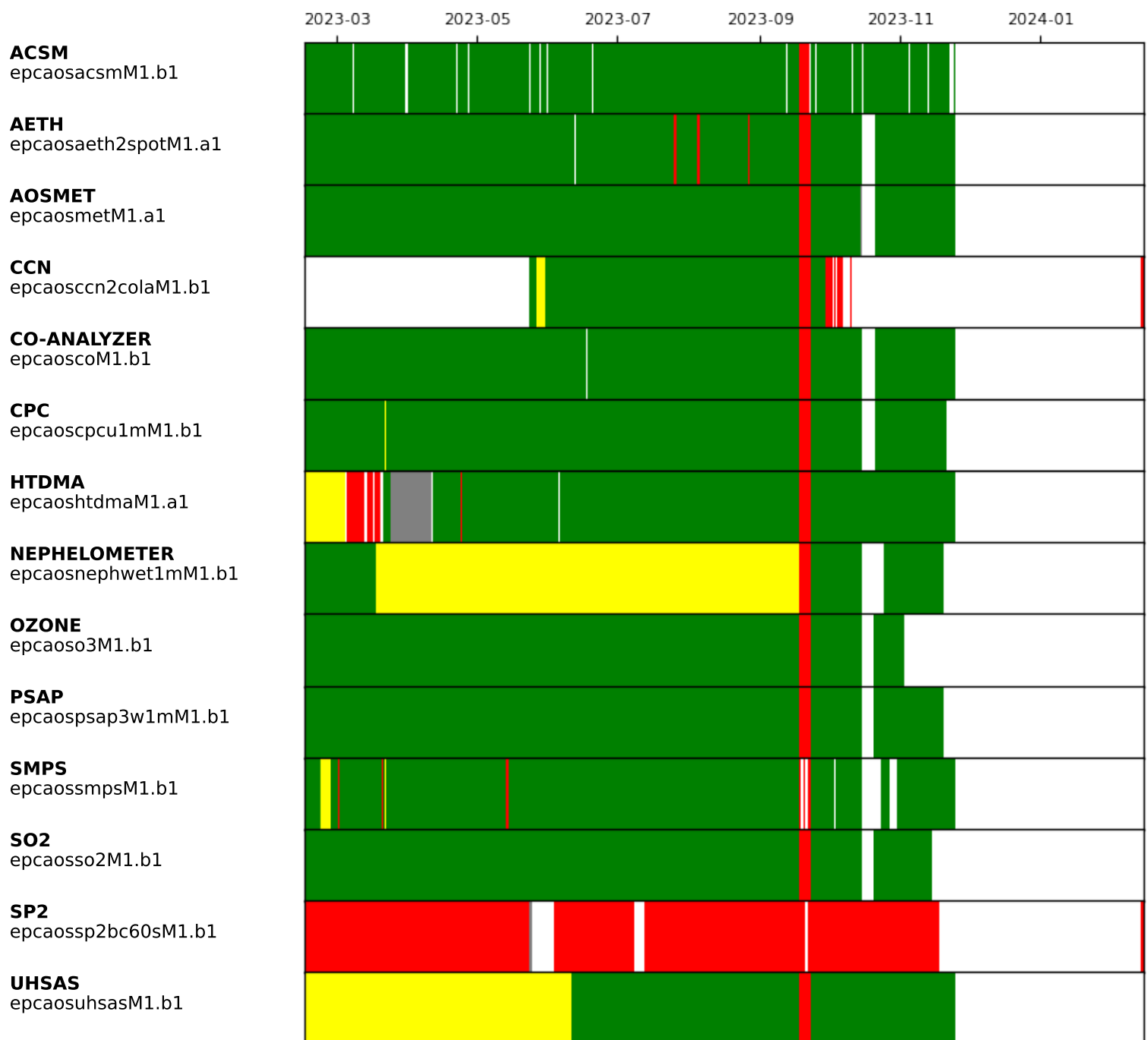


Atmospheric Radiation Measurement User Facility



ARM Data Quality Report (DQR) Table

| Datastream | DQR | Quality | Subject | Start Date | End Date |
|----------------------|------------|-----------|--|-----------------|-----------------|
| epcaosacsmM1.b1 | D230923.1 | incorrect | Mentors On-Site for Mid-Campaign Calibration | 20230918.000000 | 20230922.235959 |
| epcaosaeth2spotM1.a1 | D231114.4 | missing | Data Not Available | 20231015.085901 | 20231020.215759 |
| epcaosaeth2spotM1.a1 | D230923.1 | incorrect | Mentors On-Site for Mid-Campaign Calibration | 20230918.000000 | 20230922.235959 |
| epcaosaeth2spotM1.a1 | D230817.4 | incorrect | Instrument Failure | 20230827.015500 | 20230827.180000 |
| epcaosaeth2spotM1.a1 | D230825.5 | incorrect | Instrument Light Source Failure | 20230725.182000 | 20230727.005226 |
| epcaosmetM1.a1 | D231114.9 | missing | Data Not Available | 20231015.090000 | 20231020.193149 |
| epcaosmetM1.a1 | D230923.1 | incorrect | Mentors On-Site for Mid-Campaign Calibration | 20230918.000000 | 20230922.235959 |
| epcaosccn2colaM1.b1 | D230923.1 | incorrect | Mentors On-Site for Mid-Campaign Calibration | 20230918.000000 | 20230922.235959 |
| epcaosccn2colaM1.b1 | D230825.2 | suspect | Clock Synchronization Issue | 20230527.010419 | 20230530.182206 |
| epcaosccn2colaM1.b1 | D231019.1 | incorrect | Instrument Flooded | 20230929.090000 | 30010101.000000 |
| epcaoscoM1.b1 | D231114.5 | missing | Data Not Available | 20231015.090000 | 20231020.230943 |
| epcaoscoM1.b1 | D230923.1 | incorrect | Mentors On-Site for Mid-Campaign Calibration | 20230918.000000 | 20230922.235959 |
| epcaospcu1mM1.b1 | D231114.6 | missing | Data Not Available | 20231015.085931 | 20231020.210029 |
| epcaospcu1mM1.b1 | D230923.1 | incorrect | Mentors On-Site for Mid-Campaign Calibration | 20230918.000000 | 20230922.235959 |
| epcaospcu1mM1.b1 | D230913.1 | incorrect | Instrument Flow disrupted due to Power Outage | 20230912.230000 | 20230913.001500 |
| epcaospcu1mM1.b1 | D230322.7 | suspect | Vacuum Supply to the Instrument is Sub-Optimal | 20230322.000000 | 20230322.160000 |
| epcaoshtdmaM1.a1 | D230923.1 | incorrect | Mentors On-Site for Mid-Campaign Calibration | 20230918.000000 | 20230922.235959 |
| epcaoshtdmaM1.a1 | D230425.9 | incorrect | Instrument not Sampling Ambient Air | 20230423.160000 | 20230424.130000 |
| epcaoshtdmaM1.a1 | D230412.6 | missing | Instrument Offline for Troubleshooting | 20230324.090000 | 20230411.173000 |
| epcaoshtdmaM1.a1 | D230322.5 | incorrect | Water in the Instrument | 20230304.070000 | 20230320.200000 |
| epcaoshtdmaM1.a1 | D230322.4 | suspect | Sample Flow Fluctuating | 20230211.220000 | 20230304.070000 |
| epcaosnephwet1mM1.b | D231114.10 | missing | Data Not Available | 20231015.085931 | 20231024.180029 |
| epcaosnephwet1mM1.b | D230923.1 | incorrect | Mentors On-Site for Mid-Campaign Calibration | 20230918.000000 | 20230922.235959 |
| epcaosnephwet1mM1.b | D230519.1 | suspect | RH Cycling not Nominal | 20230317.160000 | 20230923.000000 |
| epcaoso3M1.b1 | D231114.14 | missing | Data Not Available | 20231015.090000 | 20231020.193739 |
| epcaoso3M1.b1 | D230923.1 | incorrect | Mentors On-Site for Mid-Campaign Calibration | 20230918.000000 | 20230922.235959 |
| epcaospsap3w1mM1.b1 | D231114.16 | missing | Data Not Available | 20231015.095931 | 20231020.190029 |
| epcaospsap3w1mM1.b1 | D230923.1 | incorrect | Mentors On-Site for Mid-Campaign Calibration | 20230918.000000 | 20230922.235959 |
| epcaospsap3w1mM1.b1 | D230918.3 | incorrect | Incorrect Data | 20230913.013748 | 20230913.014121 |
| epcaossmmpsM1.b1 | D231114.18 | missing | Data Not Available | 20231027.175001 | 20231030.152459 |

ARM Data Quality Report (DQR) Table

| Datastream | DQR | Quality | Subject | Start Date | End Date |
|---------------------|------------|-----------|--|-----------------|-----------------|
| epcaossmmpsM1.b1 | D231009.11 | incorrect | Incorrect Data | 20230911.163600 | 20230911.182400 |
| epcaossmmpsM1.b1 | D230923.1 | incorrect | Mentors On-Site for Mid-Campaign Calibration | 20230918.000000 | 20230922.235959 |
| epcaossmmpsM1.b1 | D230913.1 | incorrect | Instrument Flow disrupted due to Power Outage | 20230912.230000 | 20230913.001500 |
| epcaossmmpsM1.b1 | D230702.5 | incorrect | Instrument Undergoing Weekly Check | 20230327.190000 | 20230327.200000 |
| epcaossmmpsM1.b1 | D230702.4 | suspect | Instrument Error | 20230322.030000 | 20230322.160000 |
| epcaossmmpsM1.b1 | D230322.7 | suspect | Vacuum Supply to the Instrument is Sub-Optimal | 20230322.000000 | 20230322.160000 |
| epcaossmmpsM1.b1 | D230313.3 | missing | Data Not Available | 20230310.180000 | 20230310.220000 |
| epcaossmmpsM1.b1 | D230302.4 | incorrect | Instrument Under Review - With Period of No Data | 20230301.150000 | 20230301.233000 |
| epcaossmmpsM1.b1 | D230916.1 | incorrect | Incorrect Data | 20230913.020000 | 20230913.030000 |
| epcaossmmpsM1.b1 | D230510.2 | incorrect | Instrument Undergoing On-Site Check | 20230510.160000 | 20230510.175959 |
| epcaossmmpsM1.b1 | D230514.1 | incorrect | Instrument Undergoing On-Site Check | 20230513.150000 | 20230514.183000 |
| epcaossmmpsM1.b1 | D230228.3 | suspect | Instrument Sample Collection Disrupted | 20230222.000000 | 20230225.235959 |
| epcaossmmpsM1.b1 | D230228.1 | suspect | Questionable Data | 20230217.000000 | 20230217.064501 |
| epcaosso2M1.b1 | D231114.20 | missing | Data Not Available | 20231015.100000 | 20231020.194814 |
| epcaosso2M1.b1 | D230923.1 | incorrect | Mentors On-Site for Mid-Campaign Calibration | 20230918.000000 | 20230922.235959 |
| epcaossp2bc60sM1.b1 | D231010.1 | incorrect | aossp2_counts Variable Always Reads Zero | 20230120.000000 | 30010101.000000 |
| epcaossp2bc60sM1.b1 | D230923.1 | incorrect | Mentors On-Site for Mid-Campaign Calibration | 20230918.000000 | 20230922.235959 |
| epcaossp2bc60sM1.b1 | D230721.10 | missing | Missing Data | 20230708.163600 | 20230712.155000 |
| epcaossp2bc60sM1.b1 | D230613.8 | missing | No Data | 20230523.170000 | 20230603.102300 |
| epcaosuhsasM1.b1 | D230923.1 | incorrect | Mentors On-Site for Mid-Campaign Calibration | 20230918.000000 | 20230922.235959 |
| epcaosuhsasM1.b1 | D230718.1 | suspect | Potential Data Quality Issues above 550 nm | 20230115.000007 | 20230610.235954 |

ARM Data Object Identifier (DOI) Table

| Instrument | DOI |
|--------------|---|
| ACSM | Zawadowicz, M., Watson, T., Hayes, C., Allain, M., Salwen, C., & Behrens, B. Aerosol Chemical Speciation Monitor (AOSACSM). Atmospheric Radiation Measurement (ARM) User Facility. https://doi.org/10.5439/1558768 |
| AETH | Sedlacek, A., Salwen, C., Andrews, E., & Hayes, C. Aethalometer (AOSAETH2SPOT). Atmospheric Radiation Measurement (ARM) User Facility. https://doi.org/10.5439/1211529 |
| AOSMET | Kyrouac, J., & Tuftedal, M. Meteorological Measurements associated with the Aerosol Observing System (AOSMET). Atmospheric Radiation Measurement (ARM) User Facility. https://doi.org/10.5439/1984920 |
| CCN | Koontz, A., Uin, J., Andrews, E., Enekwizu, O., Hayes, C., & Salwen, C. Cloud Condensation Nuclei Particle Counter (AOSCCN2COLA). Atmospheric Radiation Measurement (ARM) User Facility. https://doi.org/10.5439/1323892 |
| CO-ANALYZER | Koontz, A., Springston, S., & Trojanowski, R. Carbon Monoxide Analyzer (AOSCO). Atmospheric Radiation Measurement (ARM) User Facility. https://doi.org/10.5439/1250819 |
| CPC | Flynn, C., Ermold, B., Andrews, E., Kuang, C., Hayes, C., Singh, A., & Salwen, C. Condensation Particle Counter (AOSPCF1M). Atmospheric Radiation Measurement (ARM) User Facility. https://doi.org/10.5439/1398277 |
| HTDMA | Uin, J., Cromwel, E., Hayes, C., & Salwen, C. Humidified Tandem Differential Mobility Analyzer (AOSHTDMA). Atmospheric Radiation Measurement (ARM) User Facility. https://doi.org/10.5439/1095581 |
| NEPHELOMETER | Uin, J., Salwen, C., Senum, G., Hayes, C., & Mayol Bracero, O. Nephelometer (AOSNEPHDRY1M). Atmospheric Radiation Measurement (ARM) User Facility. https://doi.org/10.5439/1984586 |
| OZONE | Springston, S., Koontz, A., & Trojanowski, R. Ozone Monitor (AOSO3). Atmospheric Radiation Measurement (ARM) User Facility. https://doi.org/10.5439/1346692 |
| PSAP | Ermold, B., Flynn, C., Trojanowski, R., Andrews, E., Hayes, C., Salwen, C., & Flynn, C. Particle Soot Absorption Photometer (AOSPSAP3W1M). Atmospheric Radiation Measurement (ARM) User Facility. https://doi.org/10.5439/1225037 |
| SMPS | Kuang, C., Singh, A., Howie, J., Salwen, C., & Hayes, C. Scanning mobility particle sizer (AOSMPS). Atmospheric Radiation Measurement (ARM) User Facility. https://doi.org/10.5439/1476898 |
| SO2 | Trojanowski, R. Sulfur Dioxide Monitor (AOSSO2). Atmospheric Radiation Measurement (ARM) User Facility. https://doi.org/10.5439/1250820 |
| SP2 | Jackson, R., Sedlacek, A., Salwen, C., & Hayes, C. Single Particle Soot Photometer (AOSSP2BC60S). Atmospheric Radiation Measurement (ARM) User Facility. https://doi.org/10.5439/1807910 |
| UHSAS | Uin, J., Senum, G., Koontz, A., Flynn, C., Salwen, C., & Hayes, C. Ultra-High Sensitivity Aerosol Spectrometer (AOSUHSAS). Atmospheric Radiation Measurement (ARM) User Facility. https://doi.org/10.5439/1409033 |