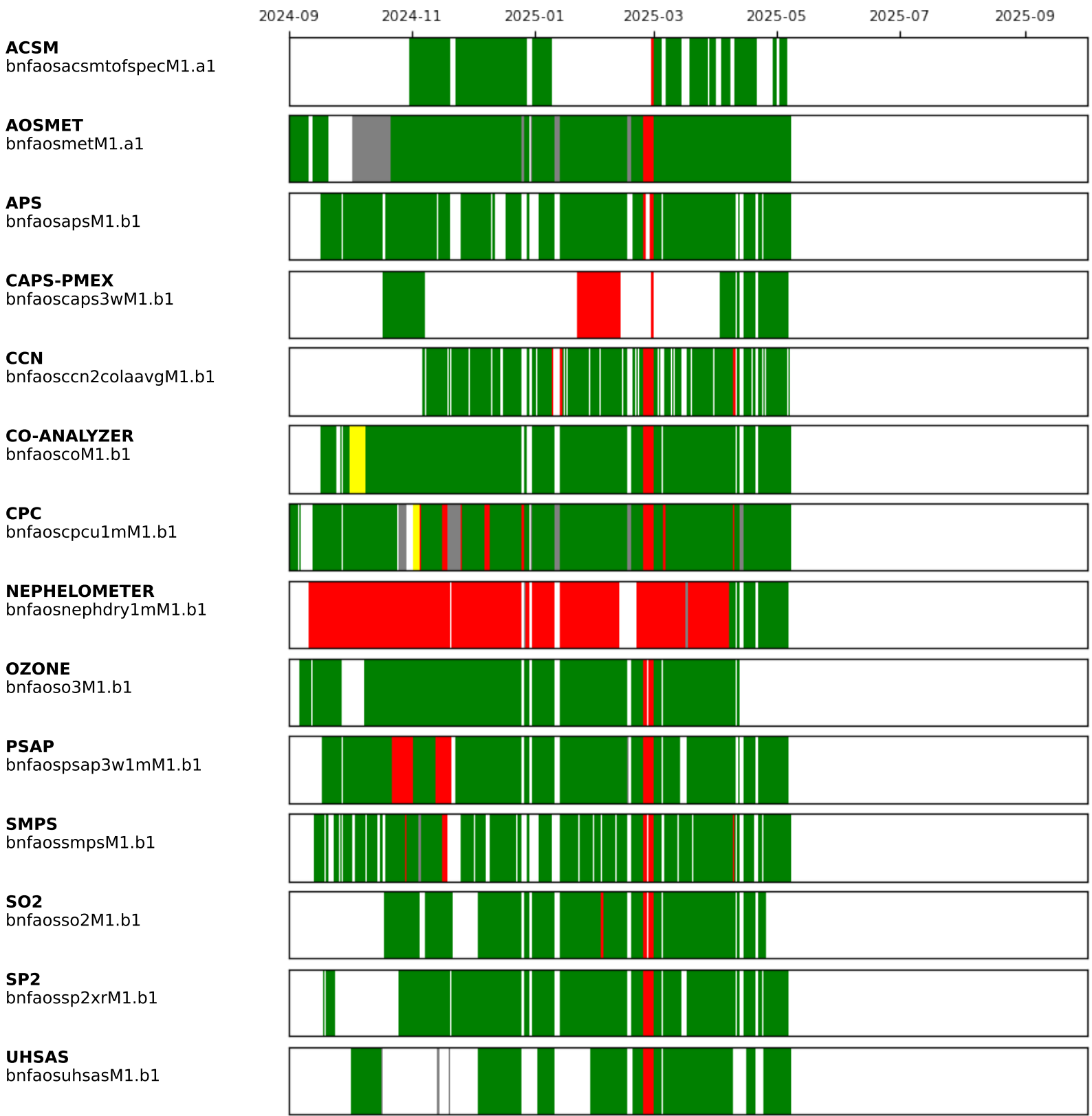


Bankhead National Forest, AL, AMF3 (Main Site)
Atmospheric Radiation Measurement User Facility



ARM Data Quality Report (DQR) Table

Datastream	DQR	Quality	Subject	Start Date	End Date
bnfaosacsmtofspecM1.a	D250307.10	Missing	No Data	2025-01-09T17:32:35	2025-02-26T19:45:08
bnfaosacsmtofspecM1.a	D250214.6	Missing	Power Outage	2024-12-27T19:10:14	2024-12-30T19:45:24
bnfaosacsmtofspecM1.a	D241203.8	Missing	Data Missing	2024-11-19T20:12:43	2024-11-22T20:03:13
bnfaosacsmtofspecM1.a	D250303.1	Incorrect	Incorrect Data	2025-02-24T00:00:00	2025-02-28T23:59:59
bnfaosmetM1.a1	D250303.1	Incorrect	Incorrect Data	2025-02-24T00:00:00	2025-02-28T23:59:59
bnfaosmetM1.a1	D250203.3	Missing	No Data	2024-12-29T04:36:25	2024-12-30T14:34:49
bnfaosmetM1.a1	D241031.1	Missing	Failed Power and Intermittent Communications	2024-10-01T00:00:00	2024-10-21T20:27:59
bnfaosmetM1.a1	D250307.3	Missing	Power Outage	2025-02-16T05:48:20	2025-02-17T15:56:18
bnfaosapsM1.b1	D250130.4	Missing	Missing Data	2025-01-10T16:51:27	2025-01-13T14:49:39
bnfaosapsM1.b1	D250219.1	Missing	Missing data	2025-02-16T05:48:20	2025-02-18T15:21:23
bnfaosapsM1.b1	D250414.7	Missing	Missing Data	2025-04-12T14:39:57	2025-04-14T15:20:00
bnfaosapsM1.b1	D250121.1	Missing	Missing Data	2024-12-29T04:00:00	2025-01-02T22:48:14
bnfaosapsM1.b1	D241218.1	Missing	Missing Data	2024-12-12T16:17:56	2024-12-17T19:59:54
bnfaosapsM1.b1	D241125.4	Missing	No Data	2024-11-19T19:00:00	2024-11-25T16:00:00
bnfaosapsM1.b1	D250303.1	Incorrect	Incorrect Data	2025-02-24T00:00:00	2025-02-28T23:59:59
bnfaoscaps3wM1.b1	D250213.3	Incorrect	Incorrect Data	2025-01-21T18:01:16	2025-02-12T13:04:13
bnfaoscaps3wM1.b1	D250128.2	Incorrect	Bad Data	2025-02-05T14:00:00	2025-02-12T13:04:13
bnfaoscaps3wM1.b1	D250303.1	Incorrect	Incorrect Data	2025-02-24T00:00:00	2025-02-28T23:59:59
bnfaoscaps3wM1.b1	D250213.2	Missing	No Data	2024-11-07T16:20:22	2025-01-21T18:01:16
bnfaosccn2colaavgM1.b	D250106.8	Missing	No Data due to Power Outage at BNF Site	2024-12-29T04:37:08	2024-12-30T15:00:00
bnfaosccn2colaavgM1.b	D250317.6	Missing	CCN Offline	2025-03-14T20:00:00	2025-03-17T14:00:00
bnfaosccn2colaavgM1.b	D241126.1	Missing	No Data	2024-11-19T19:00:00	2024-11-20T22:00:00
bnfaosccn2colaavgM1.b	D250414.1	Missing	CCN Offline Due to Power Outage at Site	2025-04-12T14:44:00	2025-04-14T13:14:20
bnfaosccn2colaavgM1.b	D250410.9	Missing	CCN Offline Due to Power Outage at Site	2025-04-09T13:17:35	2025-04-09T17:04:04
bnfaosccn2colaavgM1.b	D250110.1	Missing	CCN Shutdown due to Cold Weather	2025-01-10T12:31:07	2025-01-13T17:02:19
bnfaosccn2colaavgM1.b	D250320.6	Missing	CCN Offline Due to Power Outage at Site	2025-02-16T05:50:22	2025-02-18T15:17:36
bnfaosccn2colaavgM1.b	D250310.5	Missing	CCN Offline Due to Power Outage at Site	2025-03-05T01:00:00	2025-03-06T03:00:00
bnfaosccn2colaavgM1.b	D250411.6	Missing	CCN Offline Due to Power Outage at Site	2025-04-10T23:29:00	2025-04-11T13:10:00
bnfaosccn2colaavgM1.b	D250109.3	Incorrect	Dry Shutdown of CCN due to Cold Weather Power Outage	2025-01-09T15:00:00	2025-01-10T13:00:00
bnfaosccn2colaavgM1.b	D250114.4	Incorrect	CCN Startup and Flow Calibration after Cold Weather Outage	2025-01-13T14:50:00	2025-01-14T21:00:00

ARM Data Quality Report (DQR) Table

Datastream	DQR	Quality	Subject	Start Date	End Date
bnfaosccn2colaavgM1.b1	D250410.10	Incorrect	Auto Startup of CCN Program	2025-04-09T17:04:00	2025-04-10T19:00:00
bnfaosccn2colaavgM1.b1	D250320.8	Incorrect	Auto Startup of CCN Program	2025-02-18T15:17:36	2025-02-18T16:40:00
bnfaosccn2colaavgM1.b1	D250303.1	Incorrect	Incorrect Data	2025-02-24T00:00:00	2025-02-28T23:59:59
bnfaosccn2colaavgM1.b1	D250414.3	Incorrect	Auto Startup of CCN Program	2025-04-14T13:14:20	2025-04-14T14:00:00
bnfaoscoM1.b1	D241209.8	Suspect	Sample Line Disruption	2024-10-01T03:00:00	2024-10-08T20:00:00
bnfaoscoM1.b1	D250204.1	Missing	Missing Data	2024-12-25T14:51:48	2024-12-26T15:28:18
bnfaoscoM1.b1	D250303.1	Incorrect	Incorrect Data	2025-02-24T00:00:00	2025-02-28T23:59:59
bnfaospcpu1mM1.b1	D250410.2	Incorrect	Incorrect Data	2025-04-09T14:00:00	2025-04-09T19:59:59
bnfaospcpu1mM1.b1	D250303.1	Incorrect	Incorrect Data	2025-02-24T00:00:00	2025-02-28T23:59:59
bnfaospcpu1mM1.b1	D241209.2	Incorrect	Incorrect Data	2024-12-07T03:00:00	2024-12-09T16:00:00
bnfaospcpu1mM1.b1	D241125.5	Incorrect	Incorrect Data	2024-11-25T16:00:00	2024-11-25T19:00:00
bnfaospcpu1mM1.b1	D250317.5	Incorrect	Incorrect Data	2025-03-05T20:26:47	2025-03-07T01:00:00
bnfaospcpu1mM1.b1	D250109.2	Missing	Missing Data	2024-12-29T04:37:12	2024-12-30T15:18:27
bnfaospcpu1mM1.b1	D241125.3	Missing	No Data	2024-11-18T15:00:00	2024-11-25T16:00:00
bnfaospcpu1mM1.b1	D250414.8	Missing	Missing Data	2025-04-12T14:44:32	2025-04-14T12:23:12
bnfaospcpu1mM1.b1	D241116.3	Missing	Missing Data	2024-10-29T14:23:32	2024-11-01T17:34:24
bnfaospcpu1mM1.b1	D250130.4	Missing	Missing Data	2025-01-10T16:51:27	2025-01-13T14:49:39
bnfaospcpu1mM1.b1	D250219.2	Missing	Missing Data	2025-02-16T05:39:59	2025-02-17T20:45:00
bnfaospcpu1mM1.b1	D241116.4	Suspect	Suspect	2024-11-01T06:00:00	2024-11-05T06:00:00
bnfaosnephdry1mM1.b1	D250325.1	Incorrect	Bulb Burned Out	2025-03-12T04:50:00	2025-03-12T15:00:00
bnfaosnephdry1mM1.b1	D250414.4	Incorrect	No Valid Data	2025-04-10T23:00:00	2025-04-11T13:00:00
bnfaosnephdry1mM1.b1	D241105.3	Incorrect	Bulb Burned Out	2024-10-01T04:14:41	2024-10-30T23:59:59
bnfaosnephdry1mM1.b1	D250303.1	Incorrect	Incorrect Data	2025-02-24T00:00:00	2025-02-28T23:59:59
bnfaosnephdry1mM1.b1	D241127.1	Incorrect	Nephelometer Bulb Burned Out	2024-11-08T03:00:00	2024-11-12T18:00:00
bnfaosnephdry1mM1.b1	D250307.12	Incorrect	Bulb Burned Out	2025-02-11T19:00:00	2025-02-20T20:00:00
bnfaosnephdry1mM1.b1	D250107.6	Missing	Data Missing	2024-12-29T04:37:11	2024-12-30T14:32:12
bnfaosnephdry1mM1.b1	D250121.5	Missing	Instrument Offline	2025-01-10T16:51:23	2025-01-13T14:48:44
bnfaosnephdry1mM1.b1	D250106.6	Missing	Data Missing	2024-12-25T14:51:48	2024-12-27T15:00:00
bnfaoso3M1.b1	D250204.4	Missing	Missing Data	2024-12-29T04:37:06	2024-12-30T14:59:10
bnfaoso3M1.b1	D250303.1	Incorrect	Incorrect Data	2025-02-24T00:00:00	2025-02-28T23:59:59

ARM Data Quality Report (DQR) Table

Datastream	DQR	Quality	Subject	Start Date	End Date
bnfaospsap3w1mM1.b1	D250214.9	Missing	Power Outage	2025-01-10T16:51:26	2025-01-13T14:56:07
bnfaospsap3w1mM1.b1	D250409.10	Missing	Missing Data	2025-03-14T02:32:25	2025-03-17T15:32:19
bnfaospsap3w1mM1.b1	D250408.3	Missing	Missing Data	2025-02-16T05:48:19	2025-02-17T15:56:12
bnfaospsap3w1mM1.b1	D250303.1	Incorrect	Incorrect Data	2025-02-24T00:00:00	2025-02-28T23:59:59
bnfaospsap3w1mM1.b1	D241029.1	Incorrect	Bad Data	2024-10-01T00:00:00	2024-10-01T14:00:00
bnfaospsap3w1mM1.b1	D241025.1	Incorrect	Incorrect PSAP Data	2024-10-22T13:43:00	2024-10-24T13:43:00
bnfaospsap3w1mM1.b1	D241125.1	Incorrect	PSAP Leaking	2024-10-22T13:51:00	2024-11-01T19:46:00
bnfaospsap3w1mM1.b1	D241125.2	Incorrect	Flow Pump Failed	2024-11-12T23:00:00	2024-11-22T20:05:00
bnfaossmmpsM1.b1	D250219.2	Missing	Missing Data	2025-02-16T05:39:59	2025-02-17T20:45:00
bnfaossmmpsM1.b1	D250127.5	Missing	Missing Data	2025-01-22T16:45:02	2025-01-23T14:50:00
bnfaossmmpsM1.b1	D241209.1	Missing	Missing Data	2024-12-07T13:54:57	2024-12-09T15:00:00
bnfaossmmpsM1.b1	D250109.1	Missing	No Data	2024-12-29T04:30:01	2025-01-02T22:45:00
bnfaossmmpsM1.b1	D241029.12	Missing	Missing Data	2024-10-14T20:20:01	2024-10-16T16:15:00
bnfaossmmpsM1.b1	D250313.2	Missing	Missing Data	2025-03-05T00:55:00	2025-03-06T01:35:00
bnfaossmmpsM1.b1	D241125.3	Missing	No Data	2024-11-18T15:00:00	2024-11-25T16:00:00
bnfaossmmpsM1.b1	D250414.7	Missing	Missing Data	2025-04-12T14:39:57	2025-04-14T15:20:00
bnfaossmmpsM1.b1	D250127.4	Missing	Missing Data	2025-01-10T16:45:02	2025-01-13T16:00:05
bnfaossmmpsM1.b1	D241125.5	Incorrect	Incorrect Data	2024-11-16T00:30:00	2024-11-18T15:00:00
bnfaossmmpsM1.b1	D241105.1	Incorrect	Incorrect Data	2024-10-28T20:00:00	2024-10-29T18:00:00
bnfaossmmpsM1.b1	D250303.1	Incorrect	Incorrect Data	2025-02-24T00:00:00	2025-02-28T23:59:59
bnfaossmmpsM1.b1	D250410.2	Incorrect	Incorrect Data	2025-04-09T14:00:00	2025-04-09T19:59:59
bnfaosso2M1.b1	D250408.2	Missing	Data Unavailable	2025-02-16T05:48:19	2025-02-17T15:57:51
bnfaosso2M1.b1	D250129.2	Missing	Data Unavailable	2024-11-04T19:29:03	2024-11-07T21:36:39
bnfaosso2M1.b1	D250307.13	Incorrect	Incorrect Data	2025-02-03T03:55:00	2025-02-03T05:00:00
bnfaosso2M1.b1	D250303.1	Incorrect	Incorrect Data	2025-02-24T00:00:00	2025-02-28T23:59:59
bnfaossp2xrM1.b1	D250303.1	Incorrect	Incorrect Data	2025-02-24T00:00:00	2025-02-28T23:59:59
bnfaosuhsasM1.b1	D250311.4	Missing	Power Outage	2025-02-16T04:59:56	2025-02-18T16:32:32
bnfaosuhsasM1.b1	D241205.1	Missing	Gaps in the Data	2024-10-17T01:00:00	2024-12-03T18:00:00
bnfaosuhsasM1.b1	D250107.5	Missing	Missing Data	2024-12-25T13:59:51	2025-01-02T16:17:03
bnfaosuhsasM1.b1	D250303.1	Incorrect	Incorrect Data	2025-02-24T00:00:00	2025-02-28T23:59:59

ARM Data Object Identifier (DOI) Table

Instrument	DOI
ACSM	Shilling, J., Anna, M., Shippert, T., Hayes, C., Allain, M., Salwen, C., & Behrens, B. Aerosol Chemical Speciation Monitor (AOSACSMTOFSPEC), 2024-9-01 to 2025-10-01, Bankhead National Forest, AL, USA; Long-term Mobile Facility (BNF), Bankhead National Forest, AL, AMF3 (Main Site) (M1). Atmospheric Radiation Measurement (ARM) User Facility. https://doi.org/10.5439/1822138
AOSMET	Kyrouac, J., & Tuftedal, M. Meteorological Measurements associated with the Aerosol Observing System (AOSMET), 2024-9-01 to 2025-10-01, Bankhead National Forest, AL, USA; Long-term Mobile Facility (BNF), Bankhead National Forest, AL, AMF3 (Main Site) (M1). Atmospheric Radiation Measurement (ARM) User Facility. https://doi.org/10.5439/1984920
APS	Singh, A., Oliveira, D., Koontz, A., Sedlacek, A., & Kuang, C. Aerodynamic Particle Sizer (AOSAPS), 2024-9-01 to 2025-10-01, Bankhead National Forest, AL, USA; Long-term Mobile Facility (BNF), Bankhead National Forest, AL, AMF3 (Main Site) (M1). Atmospheric Radiation Measurement (ARM) User Facility. https://doi.org/10.5439/1407135
CAPS-PMEX	Koontz, A., Sedlacek, A., & Smith, S. Cavity Attenuated Phase Shift Extinction Monitor (AOSCAPS3W), 2024-9-01 to 2025-10-01, Bankhead National Forest, AL, USA; Long-term Mobile Facility (BNF), Bankhead National Forest, AL, AMF3 (Main Site) (M1). Atmospheric Radiation Measurement (ARM) User Facility. https://doi.org/10.5439/1406888
CCN	Koontz, A., Uin, J., Andrews, E., Enekwizu, O., Hayes, C., & Salwen, C. Cloud Condensation Nuclei Particle Counter (AOSCCN2COLA), 2024-9-01 to 2025-10-01, Bankhead National Forest, AL, USA; Long-term Mobile Facility (BNF), Bankhead National Forest, AL, AMF3 (Main Site) (M1). Atmospheric Radiation Measurement (ARM) User Facility. https://doi.org/10.5439/1323892
CO-ANALYZER	Koontz, A., Springston, S., & Trojanowski, R. Carbon Monoxide Analyzer (AOSCO), 2024-9-01 to 2025-10-01, Bankhead National Forest, AL, USA; Long-term Mobile Facility (BNF), Bankhead National Forest, AL, AMF3 (Main Site) (M1). 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), 2024-9-01 to 2025-10-01, Bankhead National Forest, AL, USA; Long-term Mobile Facility (BNF), Bankhead National Forest, AL, AMF3 (Main Site) (M1). Atmospheric Radiation Measurement (ARM) User Facility. https://doi.org/10.5439/1398277
NEPHELOMETER	Uin, J., Hayes, C., & Mayol Bracero, O. Nephelometer (AOSNEPHDRY1M), 2024-9-01 to 2025-10-01, Bankhead National Forest, AL, USA; Long-term Mobile Facility (BNF), Bankhead National Forest, AL, AMF3 (Main Site) (M1). Atmospheric Radiation Measurement (ARM) User Facility. https://doi.org/10.5439/1984586
OZONE	Springston, S., Koontz, A., & Trojanowski, R. Ozone Monitor (AOSO3), 2024-9-01 to 2025-10-01, Bankhead National Forest, AL, USA; Long-term Mobile Facility (BNF), Bankhead National Forest, AL, AMF3 (Main Site) (M1). 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), 2024-9-01 to 2025-10-01, Bankhead National Forest, AL, USA; Long-term Mobile Facility (BNF), Bankhead National Forest, AL, AMF3 (Main Site) (M1). 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), 2024-9-01 to 2025-10-01, Bankhead National Forest, AL, USA; Long-term Mobile Facility (BNF), Bankhead National Forest, AL, AMF3 (Main Site) (M1). Atmospheric Radiation Measurement (ARM) User Facility. https://doi.org/10.5439/1476898
SO2	Trojanowski, R. Sulfur Dioxide Monitor (AOSSO2), 2024-9-01 to 2025-10-01, Bankhead National Forest, AL, USA; Long-term Mobile Facility (BNF), Bankhead National Forest, AL, AMF3 (Main Site) (M1). Atmospheric Radiation Measurement (ARM) User Facility. https://doi.org/10.5439/1250820
SP2	Sedlacek, A., & Ermold, B. Single Particle Soot Photometer (AOSSP2XR), 2024-9-01 to 2025-10-01, Bankhead National Forest, AL, USA; Long-term Mobile Facility (BNF), Bankhead National Forest, AL, AMF3 (Main Site) (M1). Atmospheric Radiation Measurement (ARM) User Facility. https://doi.org/10.5439/2507427

ARM Data Object Identifier (DOI) Table

Instrument	DOI
UHSAS	Uin, J., Senum, G., Koontz, A., Flynn, C., Salwen, C., & Hayes, C. Ultra-High Sensitivity Aerosol Spectrometer (AOSUHSAS), 2024-9-01 to 2025-10-01, Bankhead National Forest, AL, USA; Long-term Mobile Facility (BNF), Bankhead National Forest, AL, AMF3 (Main Site) (M1). Atmospheric Radiation Measurement (ARM) User Facility. https://doi.org/10.5439/1409033