

# 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
bnfaosacsmtospecM1.a	D250506.1	Missing	Several Issues Caused Missing Data/Incorrect Data	2025-03-05T01:44:19	2025-03-06T16:42:31
bnfaosacsmtospecM1.a	D250703.4	Missing	Missing/Incorrect Data	2025-06-17T00:00:00	2025-06-23T23:59:59
bnfaosacsmtospecM1.a	D250307.10	Missing	No Data	2025-01-09T17:32:35	2025-02-26T19:45:08
bnfaosacsmtospecM1.a	D250214.6	Missing	Power Outage	2024-12-27T19:10:14	2024-12-30T19:45:24
bnfaosacsmtospecM1.a	D241203.8	Missing	Data Missing	2024-11-19T20:12:43	2024-11-22T20:03:15
bnfaosacsmtospecM1.a	D251003.6	Missing	Missing Data	2025-07-18T22:43:56	2025-07-21T17:08:07
bnfaosacsmtospecM1.a	D250606.4	Missing	Missing Data	2025-05-14T15:06:24	2025-05-15T17:33:04
bnfaosacsmtospecM1.a	D250602.6	Incorrect	Incorrect Data	2025-05-23T00:00:00	2025-05-27T23:59:59
bnfaosacsmtospecM1.a	D251104.13	Incorrect	Mentors on Site - No Valid Data	2025-10-21T00:00:00	2025-10-22T23:59:59
bnfaosacsmtospecM1.a	D250714.6	Incorrect	Mentors Performing Instrument Calibrations	2025-07-08T13:00:00	2025-07-12T00:00:00
bnfaosacsmtospecM1.a	D250506.3	Incorrect	Incorrect Data	2025-03-29T00:00:00	2025-03-31T23:59:59
bnfaosacsmtospecM1.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	D250714.6	Incorrect	Mentors Performing Instrument Calibrations	2025-07-08T13:00:00	2025-07-12T00:00:00
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	D250508.1	Missing	Power Outage	2025-04-20T13:20:23	2025-04-21T17:49:12
bnfaosmetM1.a1	D250307.3	Missing	Power Outage	2025-02-16T05:48:20	2025-02-17T15:56:18
bnfaosmetM1.a1	D250819.9	Suspect	Relative Humidity Dry Bias	2024-10-17T16:07:49	2025-07-23T16:12:00
bnfaosapsM1.b1	D260205.3	Missing	Missing Data	2026-01-08T17:35:55	2026-01-12T14:49:44
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	2025-02-18T15:21:25
bnfaosapsM1.b1	D250423.4	Missing	Missing Data	2025-04-20T13:20:22	2025-04-21T19:59:59
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	D250814.1	Missing	Missing Data	2025-08-08T16:40:47	2025-08-09T21:36:18
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	D250627.6	Missing	Missing Data	2025-05-21T19:27:05	2025-07-24T15:55:45
bnfaosapsM1.b1	D250530.2	Incorrect	Incorrect Data	2025-05-21T12:00:00	2025-05-21T19:27:05

## ARM Data Quality Report (DQR) Table

Datastream	DQR	Quality	Subject	Start Date	End Date
bnfaosapsM1.b1	D250512.13	Incorrect	Incorrect Data	2025-05-06T10:00:00	2025-05-06T11:30:00
bnfaosapsM1.b1	D250729.1	Incorrect	Incorrect Data	2025-07-24T15:00:00	2025-07-24T18:00:00
bnfaosapsM1.b1	D260205.4	Incorrect	Incorrect Data	2026-01-16T21:00:00	2026-01-20T15:07:22
bnfaosapsM1.b1	D260120.2	Incorrect	Incorrect Data	2026-01-16T21:30:00	2026-01-20T14:59:59
bnfaosapsM1.b1	D250303.1	Incorrect	Incorrect Data	2025-02-24T00:00:00	2025-02-28T23:59:59
bnfaosapsM1.b1	D251104.13	Incorrect	Mentors on Site - No Valid Data	2025-10-21T00:00:00	2025-10-22T23:59:59
bnfaoscaps3wM1.b1	D250602.4	Suspect	Sample Flow not Actively Dried	2024-10-01T00:00:00	2025-05-29T00:00:00
bnfaoscaps3wM1.b1	D250731.8	Suspect	Suspect Data	2025-05-08T00:00:00	2025-06-02T17:02:42
bnfaoscaps3wM1.b1	D250731.7	Suspect	Some Data Questionable	2025-04-02T00:00:00	2025-05-08T00:00:00
bnfaoscaps3wM1.b1	D250529.3	Suspect	Sample RH not Controlled	2024-10-01T00:00:00	2025-05-29T00:00:00
bnfaoscaps3wM1.b1	D250213.3	Incorrect	Incorrect Data	2025-01-21T18:01:16	2025-02-12T13:04:15
bnfaoscaps3wM1.b1	D250128.2	Incorrect	Bad Data	2025-02-05T14:00:00	2025-02-12T13:04:15
bnfaoscaps3wM1.b1	D250731.10	Incorrect	All Data Unusable	2025-06-06T15:01:21	2025-06-16T13:43:00
bnfaoscaps3wM1.b1	D250303.1	Incorrect	Incorrect Data	2025-02-24T00:00:00	2025-02-28T23:59:59
bnfaoscaps3wM1.b1	D250522.9	Missing	Missing Data	2025-04-12T14:44:32	2025-04-14T12:31:59
bnfaoscaps3wM1.b1	D250522.7	Missing	No Data	2025-02-10T23:59:00	2025-04-02T17:40:00
bnfaoscaps3wM1.b1	D250731.5	Missing	Missing Data	2025-06-02T17:02:42	2025-06-06T15:01:27
bnfaoscaps3wM1.b1	D250213.2	Missing	No Data	2024-11-07T16:20:22	2025-01-21T18:01:16
bnfaosccn2colaavgM1.b	D250502.2	Missing	CCN Offline Due to Power Outage at Site	2025-04-23T21:09:25	2025-04-24T15:00:00
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	D251112.1	Missing	CCN Offline Due to Power Outage at Site	2025-11-08T12:57:00	2025-11-08T19:05:00
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	D251016.1	Missing	CCN VI Crash	2025-10-14T23:12:00	2025-10-15T15:19:00
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	D250423.8	Missing	CCN Offline Due to Power Outage at Site	2025-04-20T13:20:00	2025-04-21T20:00:00
bnfaosccn2colaavgM1.b	D260123.5	Missing	CCN Shutdown due to Cold Weather	2026-01-23T13:15:00	2026-01-28T14:45:00

## ARM Data Quality Report (DQR) Table

Datastream	DQR	Quality	Subject	Start Date	End Date
bnfaosccn2colaavgM1.b	D250701.3	Missing	CCN Offline Due to Power Outage at Site	2025-06-30T19:47:00	2025-06-30T21:00:00
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	D250717.6	Incorrect	Restriction in CCN Sample Line	2025-07-12T00:00:01	2025-07-16T21:00:00
bnfaosccn2colaavgM1.b	D260123.3	Incorrect	Dry Shutdown of CCN due to Winter Storm	2026-01-22T15:30:00	2026-01-23T13:15:00
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
bnfaosccn2colaavgM1.b	D250410.10	Incorrect	Auto Startup of CCN Program	2025-04-09T17:04:04	2025-04-10T19:00:00
bnfaosccn2colaavgM1.b	D251104.13	Incorrect	Mentors on Site - No Valid Data	2025-10-21T00:00:00	2025-10-22T23:59:59
bnfaosccn2colaavgM1.b	D250320.8	Incorrect	Auto Startup of CCN Program	2025-02-18T15:17:36	2025-02-18T16:40:00
bnfaosccn2colaavgM1.b	D250717.8	Incorrect	CCN Undergoing Flow Calibration	2025-05-21T16:00:00	2025-05-21T18:30:00
bnfaosccn2colaavgM1.b	D250303.1	Incorrect	Incorrect Data	2025-02-24T00:00:00	2025-02-28T23:59:59
bnfaosccn2colaavgM1.b	D250521.6	Incorrect	CCN Undergoing Flow Calibration	2025-01-14T17:00:00	2025-01-14T20:00:00
bnfaosccn2colaavgM1.b	D250722.2	Incorrect	Condensation in Sample Bypass Line	2025-07-22T14:30:00	2025-07-22T16:30:00
bnfaosccn2colaavgM1.b	D250414.3	Incorrect	Auto Startup of CCN Program	2025-04-14T13:14:20	2025-04-14T14:00:00
bnfaosccn2colaavgM1.b	D251203.3	Incorrect	Flow Calibration	2025-12-02T15:50:00	2025-12-02T19:00:00
bnfaosccn2colaavgM1.b	D250703.2	Incorrect	CCN Column Temperature Stabilization	2025-07-02T18:35:00	2025-07-02T19:35:00
bnfaosccn2colaavgM1.b	D250502.3	Incorrect	Auto Startup of CCN Program	2025-04-25T14:40:00	2025-04-25T16:30:00
bnfaosccn2colaavgM1.b	D260129.2	Incorrect	CCN Startup and Rehydration after Cold Weather Outage	2026-01-28T14:45:00	2026-01-29T15:15:00
bnfaosccn2colaavgM1.b	D250714.6	Incorrect	Mentors Performing Instrument Calibrations	2025-07-08T13:00:00	2025-07-12T00:00:00
bnfaoscoM1.b1	D251104.13	Incorrect	Mentors on Site - No Valid Data	2025-10-21T00:00:00	2025-10-22T23:59:59
bnfaoscoM1.b1	D251022.8	Incorrect	Leak Test	2025-10-06T17:40:33	2025-10-06T19:43:48
bnfaoscoM1.b1	D250303.1	Incorrect	Incorrect Data	2025-02-24T00:00:00	2025-02-28T23:59:59
bnfaoscoM1.b1	D250714.6	Incorrect	Mentors Performing Instrument Calibrations	2025-07-08T13:00:00	2025-07-12T00:00:00
bnfaoscoM1.b1	D251022.5	Incorrect	Leak in Sample Line	2024-10-01T00:00:00	2025-10-03T18:00:00
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	D250516.10	Missing	Missing Data	2025-04-12T14:44:32	2025-04-14T12:53:43
bnfaoscoM1.b1	D251028.2	Missing	Analyzer Data System Failure	2025-10-23T14:42:50	2025-10-28T14:01:48
bnfaoscoM1.b1	D250603.5	Missing	Missing Data	2025-04-20T13:20:22	2025-04-21T18:02:41

## ARM Data Quality Report (DQR) Table

Datastream	DQR	Quality	Subject	Start Date	End Date
bnfaoscpcu1mM1.b1	D250410.2	Incorrect	Incorrect Data	2025-04-09T14:00:00	2025-04-09T19:59:59
bnfaoscpcu1mM1.b1	D251104.13	Incorrect	Mentors on Site - No Valid Data	2025-10-21T00:00:00	2025-10-22T23:59:59
bnfaoscpcu1mM1.b1	D250530.1	Incorrect	Incorrect Data	2025-05-14T15:00:00	2025-05-14T22:59:59
bnfaoscpcu1mM1.b1	D250729.2	Incorrect	Incorrect Data	2025-07-18T14:00:00	2025-07-18T21:00:00
bnfaoscpcu1mM1.b1	D250905.10	Incorrect	Incorrect Data	2025-08-21T09:00:00	2025-08-21T19:00:00
bnfaoscpcu1mM1.b1	D251117.1	Incorrect	Incorrect Data	2025-11-14T13:00:00	2025-11-15T16:59:59
bnfaoscpcu1mM1.b1	D250530.8	Incorrect	Incorrect Data	2025-05-30T17:00:00	2025-05-30T18:50:00
bnfaoscpcu1mM1.b1	D250303.1	Incorrect	Incorrect Data	2025-02-24T00:00:00	2025-02-28T23:59:59
bnfaoscpcu1mM1.b1	D250725.4	Incorrect	Incorrect Data	2025-07-06T09:00:01	2025-07-07T22:00:00
bnfaoscpcu1mM1.b1	D241209.2	Incorrect	Incorrect Data	2024-12-07T03:00:00	2024-12-09T16:00:00
bnfaoscpcu1mM1.b1	D250521.4	Incorrect	Incorrect Data	2025-05-19T07:00:00	2025-05-19T14:30:00
bnfaoscpcu1mM1.b1	D250722.5	Incorrect	Incorrect Data	2025-07-22T14:30:00	2025-07-22T17:00:00
bnfaoscpcu1mM1.b1	D250423.6	Incorrect	Incorrect Data	2025-04-11T12:30:00	2025-04-11T18:59:59
bnfaoscpcu1mM1.b1	D241125.5	Incorrect	Incorrect Data	2024-11-25T16:00:00	2024-11-25T19:00:00
bnfaoscpcu1mM1.b1	D250808.13	Incorrect	Incorrect Data	2025-07-18T12:00:00	2025-07-18T21:00:00
bnfaoscpcu1mM1.b1	D250714.6	Incorrect	Mentors Performing Instrument Calibrations	2025-07-08T13:00:00	2025-07-12T00:00:00
bnfaoscpcu1mM1.b1	D250620.6	Incorrect	Incorrect Data	2025-06-16T07:30:00	2025-06-16T15:00:00
bnfaoscpcu1mM1.b1	D250814.3	Incorrect	Incorrect Data	2025-08-08T09:00:00	2025-08-08T16:30:00
bnfaoscpcu1mM1.b1	D250702.1	Incorrect	Incorrect Data	2025-07-02T14:00:00	2025-07-02T16:05:00
bnfaoscpcu1mM1.b1	D250808.1	Incorrect	Incorrect Data	2025-08-08T09:00:00	2025-08-08T14:30:00
bnfaoscpcu1mM1.b1	D250702.2	Incorrect	Incorrect Data	2025-07-02T05:00:00	2025-07-02T14:05:00
bnfaoscpcu1mM1.b1	D250317.5	Incorrect	Incorrect Data	2025-03-05T20:26:47	2025-03-07T01:00:00
bnfaoscpcu1mM1.b1	D250109.2	Missing	Missing Data	2024-12-29T04:37:12	2024-12-30T15:18:27
bnfaoscpcu1mM1.b1	D241125.3	Missing	No Data	2024-11-18T15:00:00	2024-11-25T16:00:00
bnfaoscpcu1mM1.b1	D250423.4	Missing	Missing Data	2025-04-20T13:20:22	2025-04-21T19:59:59
bnfaoscpcu1mM1.b1	D250414.8	Missing	Missing Data	2025-04-12T14:44:32	2025-04-14T12:23:12
bnfaoscpcu1mM1.b1	D241116.3	Missing	Missing Data	2024-10-29T14:23:32	2024-11-01T17:34:24
bnfaoscpcu1mM1.b1	D250130.4	Missing	Missing Data	2025-01-10T16:51:27	2025-01-13T14:49:39
bnfaoscpcu1mM1.b1	D250219.2	Missing	Missing Data	2025-02-16T05:39:59	2025-02-17T20:45:00
bnfaoscpcu1mM1.b1	D250715.1	Suspect	Suspect Data	2025-07-04T12:00:00	2025-07-06T09:00:00

## ARM Data Quality Report (DQR) Table

Datastream	DQR	Quality	Subject	Start Date	End Date
bnfaoscpcu1mM1.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	D251104.13	Incorrect	Mentors on Site - No Valid Data	2025-10-21T00:00:00	2025-10-22T23:59:59
bnfaosnephdry1mM1.b1	D250714.6	Incorrect	Mentors Performing Instrument Calibrations	2025-07-08T13:00:00	2025-07-12T00:00:00
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	D250501.1	Missing	Power Outage	2025-04-20T13:20:21	2025-04-21T17:57:25
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
bnfaosnephdry1mM1.b1	D250602.4	Suspect	Sample Flow not Actively Dried	2024-10-01T00:00:00	2025-05-29T00:00:00
bnfaosnephdry1mM1.b1	D250529.3	Suspect	Sample RH not Controlled	2024-10-01T00:00:00	2025-05-29T00:00:00
bnfaoso3M1.b1	D250204.4	Missing	Missing Data	2024-12-29T04:37:06	2024-12-30T14:59:10
bnfaoso3M1.b1	D250512.4	Missing	Missing Data	2025-04-12T14:44:29	2025-04-14T12:44:01
bnfaoso3M1.b1	D251022.5	Incorrect	Leak in Sample Line	2024-10-01T00:00:00	2025-10-03T18:00:00
bnfaoso3M1.b1	D251104.13	Incorrect	Mentors on Site - No Valid Data	2025-10-21T00:00:00	2025-10-22T23:59:59
bnfaoso3M1.b1	D250714.6	Incorrect	Mentors Performing Instrument Calibrations	2025-07-08T13:00:00	2025-07-12T00:00:00
bnfaoso3M1.b1	D250303.1	Incorrect	Incorrect Data	2025-02-24T00:00:00	2025-02-28T23:59:59
bnfaospsap3w1mM1.b1	D250917.6	Incorrect	Incorrect Data	2025-08-08T09:10:00	2025-08-08T14:10:00
bnfaospsap3w1mM1.b1	D250303.1	Incorrect	Incorrect Data	2025-02-24T00:00:00	2025-02-28T23:59:59
bnfaospsap3w1mM1.b1	D251104.13	Incorrect	Mentors on Site - No Valid Data	2025-10-21T00:00:00	2025-10-22T23:59:59
bnfaospsap3w1mM1.b1	D250917.2	Incorrect	Incorrect Data	2025-09-11T10:45:00	2025-09-11T13:52:00
bnfaospsap3w1mM1.b1	D250714.6	Incorrect	Mentors Performing Instrument Calibrations	2025-07-08T13:00:00	2025-07-12T00:00:00
bnfaospsap3w1mM1.b1	D241029.1	Incorrect	Bad Data	2024-10-01T00:00:00	2024-10-01T14:00:00
bnfaospsap3w1mM1.b1	D251121.1	Incorrect	Bad Data	2025-11-14T13:07:28	2025-11-14T17:47:43
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

## ARM Data Quality Report (DQR) Table

Datastream	DQR	Quality	Subject	Start Date	End Date
bnfaospsap3w1mM1.b1	D241125.2	Incorrect	Flow Pump Failed	2024-11-12T23:00:00	2024-11-22T20:05:00
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	D250512.11	Missing	Missing Data	2025-04-20T13:20:22	2025-04-21T17:39:15
bnfaospsap3w1mM1.b1	D250522.10	Missing	Missing Data	2025-04-12T14:44:32	2025-04-14T13:15:26
bnfaospsap3w1mM1.b1	D250529.3	Suspect	Sample RH not Controlled	2024-10-01T00:00:00	2025-05-29T00:00:00
bnfaospsap3w1mM1.b1	D250602.4	Suspect	Sample Flow not Actively Dried	2024-10-01T00:00:00	2025-05-29T00:00:00
bnfaossmpsM1.b1	D250620.6	Incorrect	Incorrect Data	2025-06-16T07:30:00	2025-06-16T15:00:00
bnfaossmpsM1.b1	D250530.1	Incorrect	Incorrect Data	2025-05-14T15:00:00	2025-05-14T22:59:59
bnfaossmpsM1.b1	D241125.5	Incorrect	Incorrect Data	2024-11-16T00:30:00	2024-11-18T15:00:00
bnfaossmpsM1.b1	D241105.1	Incorrect	Incorrect Data	2024-10-28T20:00:00	2024-10-29T18:00:00
bnfaossmpsM1.b1	D260123.2	Incorrect	Incorrect Data	2026-01-15T08:30:00	2026-01-22T16:30:00
bnfaossmpsM1.b1	D250725.5	Incorrect	Incorrect Data	2025-07-22T14:30:00	2025-07-22T16:59:59
bnfaossmpsM1.b1	D250808.1	Incorrect	Incorrect Data	2025-08-08T09:00:00	2025-08-08T14:30:00
bnfaossmpsM1.b1	D250814.3	Incorrect	Incorrect Data	2025-08-08T09:00:00	2025-08-08T16:30:00
bnfaossmpsM1.b1	D250722.5	Incorrect	Incorrect Data	2025-07-22T14:30:00	2025-07-22T17:00:00
bnfaossmpsM1.b1	D250513.4	Incorrect	Incorrect Data	2025-05-04T19:00:00	2025-05-06T06:59:59
bnfaossmpsM1.b1	D250530.8	Incorrect	Incorrect Data	2025-05-30T17:00:00	2025-05-30T18:50:00
bnfaossmpsM1.b1	D250521.4	Incorrect	Incorrect Data	2025-05-19T07:00:00	2025-05-19T14:30:00
bnfaossmpsM1.b1	D250702.1	Incorrect	Incorrect Data	2025-07-02T14:00:00	2025-07-02T16:05:00
bnfaossmpsM1.b1	D251104.13	Incorrect	Mentors on Site - No Valid Data	2025-10-21T00:00:00	2025-10-22T23:59:59
bnfaossmpsM1.b1	D250512.8	Incorrect	Incorrect Data	2025-04-23T14:30:00	2025-04-24T17:50:00
bnfaossmpsM1.b1	D250714.6	Incorrect	Mentors Performing Instrument Calibrations	2025-07-08T13:00:00	2025-07-12T00:00:00
bnfaossmpsM1.b1	D250303.1	Incorrect	Incorrect Data	2025-02-24T00:00:00	2025-02-28T23:59:59
bnfaossmpsM1.b1	D250410.2	Incorrect	Incorrect Data	2025-04-09T14:00:00	2025-04-09T19:59:59
bnfaossmpsM1.b1	D250219.2	Missing	Missing Data	2025-02-16T05:39:59	2025-02-17T20:45:00
bnfaossmpsM1.b1	D250127.5	Missing	Missing Data	2025-01-22T16:45:02	2025-01-23T14:50:00
bnfaossmpsM1.b1	D241209.1	Missing	Missing Data	2024-12-07T13:54:57	2024-12-09T15:00:00
bnfaossmpsM1.b1	D250423.5	Missing	Missing Data	2025-04-20T02:00:00	2025-04-21T19:59:59

## ARM Data Quality Report (DQR) Table

Datastream	DQR	Quality	Subject	Start Date	End Date
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	D250620.1	Missing	Missing Data	2025-06-07T08:19:51	2025-06-09T19:20:00
bnfaossmmpsM1.b1	D241125.3	Missing	No Data	2024-11-18T15:00:00	2024-11-25T16:00:00
bnfaossmmpsM1.b1	D251110.4	Missing	Missing Data	2025-10-31T01:10:00	2025-11-03T15:30:33
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	D250808.8	Missing	Missing Data	2025-06-27T23:30:00	2025-06-29T01:45:00
bnfaossmmpsM1.b1	D250606.7	Missing	Missing Data	2025-05-31T23:40:01	2025-06-02T12:35:01
bnfaosso2M1.b1	D250516.7	Missing	No Data Available - Power Outage	2025-04-20T13:20:22	2025-04-21T18:07:32
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	D251104.13	Incorrect	Mentors on Site - No Valid Data	2025-10-21T00:00:00	2025-10-22T23:59:59
bnfaosso2M1.b1	D250307.13	Incorrect	Incorrect Data	2025-02-03T03:55:00	2025-02-03T05:00:00
bnfaosso2M1.b1	D251022.4	Incorrect	Leak in Sample Line	2024-10-01T00:00:00	2025-10-03T18:00:00
bnfaosso2M1.b1	D250303.1	Incorrect	Incorrect Data	2025-02-24T00:00:00	2025-02-28T23:59:59
bnfaosso2M1.b1	D250714.6	Incorrect	Mentors Performing Instrument Calibrations	2025-07-08T13:00:00	2025-07-12T00:00:00
bnfaossp2xrM1.b1	D250918.2	Missing	Missing Data	2024-12-29T04:37:09	2024-12-30T15:24:53
bnfaossp2xrM1.b1	D250711.5	Missing	Missing Data	2025-04-12T14:44:26	2025-04-14T12:40:14
bnfaossp2xrM1.b1	D250714.6	Incorrect	Mentors Performing Instrument Calibrations	2025-07-08T13:00:00	2025-07-12T00:00:00
bnfaossp2xrM1.b1	D251104.13	Incorrect	Mentors on Site - No Valid Data	2025-10-21T00:00:00	2025-10-22T23:59:59
bnfaossp2xrM1.b1	D250722.2	Incorrect	Condensation in Sample Bypass Line	2025-07-21T15:15:00	2025-07-21T19:30:00
bnfaossp2xrM1.b1	D250303.1	Incorrect	Incorrect Data	2025-02-24T00:00:00	2025-02-28T23:59:59
bnfaosuhssasM1.b1	D250702.1	Incorrect	Incorrect Data	2025-07-02T14:00:00	2025-07-02T16:05:00
bnfaosuhssasM1.b1	D250714.6	Incorrect	Mentors Performing Instrument Calibrations	2025-07-08T13:00:00	2025-07-12T00:00:00
bnfaosuhssasM1.b1	D251104.13	Incorrect	Mentors on Site - No Valid Data	2025-10-21T00:00:00	2025-10-22T23:59:59
bnfaosuhssasM1.b1	D250303.1	Incorrect	Incorrect Data	2025-02-24T00:00:00	2025-02-28T23:59:59
bnfaosuhssasM1.b1	D250311.4	Missing	Power Outage	2025-02-16T04:59:56	2025-02-18T16:32:32
bnfaosuhssasM1.b1	D250414.2	Missing	Power Outage	2025-04-20T13:00:00	2025-04-24T14:00:00

## ARM Data Quality Report (DQR) Table

Datastream	DQR	Quality	Subject	Start Date	End Date
bnfaosuhsasM1.b1	D250604.2	Missing	Instrument Software Offline	2025-05-17T02:59:59	2025-05-23T18:00:03
bnfaosuhsasM1.b1	D251104.7	Missing	Instrument Offline	2025-01-10T15:59:59	2025-01-28T17:00:03
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

## 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), 2025-01-01 to 2025-12-31, Bankhead National Forest, AL, USA; Long-term Mobile Facility (BNF), Bankhead National Forest, AL, AMF3 (Main Site) (M1). Atmospheric Radiation Measurement (ARM) User Facility. <a href="https://doi.org/10.5439/1822138">https://doi.org/10.5439/1822138</a>
AOSMET	Kyrouac, J., & Tuftedal, M. Meteorological Measurements associated with the Aerosol Observing System (AOSMET), 2025-01-01 to 2025-12-31, Bankhead National Forest, AL, USA; Long-term Mobile Facility (BNF), Bankhead National Forest, AL, AMF3 (Main Site) (M1). Atmospheric Radiation Measurement (ARM) User Facility. <a href="https://doi.org/10.5439/1984920">https://doi.org/10.5439/1984920</a>
APS	Singh, A., Oliveira, D., Koontz, A., Sedlacek, A., & Kuang, C. Aerodynamic Particle Sizer (AOSAPS), 2025-01-01 to 2025-12-31, Bankhead National Forest, AL, USA; Long-term Mobile Facility (BNF), Bankhead National Forest, AL, AMF3 (Main Site) (M1). Atmospheric Radiation Measurement (ARM) User Facility. <a href="https://doi.org/10.5439/1407135">https://doi.org/10.5439/1407135</a>
CAPS-PMEX	Koontz, A., Sedlacek, A., & Smith, S. Cavity Attenuated Phase Shift Extinction Monitor (AOSCAPS3W), 2025-01-01 to 2025-12-31, Bankhead National Forest, AL, USA; Long-term Mobile Facility (BNF), Bankhead National Forest, AL, AMF3 (Main Site) (M1). Atmospheric Radiation Measurement (ARM) User Facility. <a href="https://doi.org/10.5439/1406888">https://doi.org/10.5439/1406888</a>
CCN	Koontz, A., Uin, J., Andrews, E., Enekwizu, O., Hayes, C., & Salwen, C. Cloud Condensation Nuclei Particle Counter (AOSCCN2COLA), 2025-01-01 to 2025-12-31, Bankhead National Forest, AL, USA; Long-term Mobile Facility (BNF), Bankhead National Forest, AL, AMF3 (Main Site) (M1). Atmospheric Radiation Measurement (ARM) User Facility. <a href="https://doi.org/10.5439/1323892">https://doi.org/10.5439/1323892</a>
CO-ANALYZER	Koontz, A., Springston, S., & Trojanowski, R. Carbon Monoxide Analyzer (AOSCO), 2025-01-01 to 2025-12-31, Bankhead National Forest, AL, USA; Long-term Mobile Facility (BNF), Bankhead National Forest, AL, AMF3 (Main Site) (M1). Atmospheric Radiation Measurement (ARM) User Facility. <a href="https://doi.org/10.5439/1250819">https://doi.org/10.5439/1250819</a>
CPC	Flynn, C., Ermold, B., Andrews, E., Kuang, C., Hayes, C., Singh, A., & Salwen, C. Condensation Particle Counter (AOSCPFC1M), 2025-01-01 to 2025-12-31, Bankhead National Forest, AL, USA; Long-term Mobile Facility (BNF), Bankhead National Forest, AL, AMF3 (Main Site) (M1). Atmospheric Radiation Measurement (ARM) User Facility. <a href="https://doi.org/10.5439/1398277">https://doi.org/10.5439/1398277</a>
NEPHELOMETER	Uin, J., Hayes, C., & Mayol Bracero, O. Nephelometer (AOSNEPHDRY1M), 2025-01-01 to 2025-12-31, Bankhead National Forest, AL, USA; Long-term Mobile Facility (BNF), Bankhead National Forest, AL, AMF3 (Main Site) (M1). Atmospheric Radiation Measurement (ARM) User Facility. <a href="https://doi.org/10.5439/1984586">https://doi.org/10.5439/1984586</a>
OZONE	Springston, S., Koontz, A., & Trojanowski, R. Ozone Monitor (AOSO3), 2025-01-01 to 2025-12-31, Bankhead National Forest, AL, USA; Long-term Mobile Facility (BNF), Bankhead National Forest, AL, AMF3 (Main Site) (M1). Atmospheric Radiation Measurement (ARM) User Facility. <a href="https://doi.org/10.5439/1346692">https://doi.org/10.5439/1346692</a>
PSAP	Ermold, B., Flynn, C., Trojanowski, R., Andrews, E., Hayes, C., Salwen, C., & Flynn, C. Particle Soot Absorption Photometer (AOSPSAP3W1M), 2025-01-01 to 2025-12-31, Bankhead National Forest, AL, USA; Long-term Mobile Facility (BNF), Bankhead National Forest, AL, AMF3 (Main Site) (M1). Atmospheric Radiation Measurement (ARM) User Facility. <a href="https://doi.org/10.5439/1225037">https://doi.org/10.5439/1225037</a>
SMPS	Kuang, C., Singh, A., Howie, J., Salwen, C., & Hayes, C. Scanning mobility particle sizer (AOSSMPS), 2025-01-01 to 2025-12-31, Bankhead National Forest, AL, USA; Long-term Mobile Facility (BNF), Bankhead National Forest, AL, AMF3 (Main Site) (M1). Atmospheric Radiation Measurement (ARM) User Facility. <a href="https://doi.org/10.5439/1476898">https://doi.org/10.5439/1476898</a>
SO2	Trojanowski, R. Sulfur Dioxide Monitor (AOSSO2), 2025-01-01 to 2025-12-31, Bankhead National Forest, AL, USA; Long-term Mobile Facility (BNF), Bankhead National Forest, AL, AMF3 (Main Site) (M1). Atmospheric Radiation Measurement (ARM) User Facility. <a href="https://doi.org/10.5439/1250820">https://doi.org/10.5439/1250820</a>
SP2	Sedlacek, A., & Ermold, B. Single Particle Soot Photometer (AOSSP2XR), 2025-01-01 to 2025-12-31, Bankhead National Forest, AL, USA; Long-term Mobile Facility (BNF), Bankhead National Forest, AL, AMF3 (Main Site) (M1). Atmospheric Radiation Measurement (ARM) User Facility. <a href="https://doi.org/10.5439/2507427">https://doi.org/10.5439/2507427</a>

## 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), 2025-01-01 to 2025-12-31, Bankhead National Forest, AL, USA; Long-term Mobile Facility (BNF), Bankhead National Forest, AL, AMF3 (Main Site) (M1). Atmospheric Radiation Measurement (ARM) User Facility. <a href="https://doi.org/10.5439/1409033">https://doi.org/10.5439/1409033</a>