

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 | 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 |
| bnfaosapsM1.b1 | D250512.13 | Incorrect | Incorrect Data | 2025-05-06T10:00:00 | 2025-05-06T11:30:00 |

ARM Data Quality Report (DQR) Table

| Datastream | DQR | Quality | Subject | Start Date | End Date |
|-----------------------|------------|-----------|---|---------------------|---------------------|
| bnfaosapsM1.b1 | D250729.1 | Incorrect | Incorrect Data | 2025-07-24T15:00:00 | 2025-07-24T18:00:00 |
| 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 | 2025-06-06T15:01:27 | 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 | 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 |

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| Datastream | DQR | Quality | Subject | Start Date | End Date |
|-----------------------|------------|-----------|--|---------------------|---------------------|
| 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 | 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 | 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 |
| 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 |

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| Datastream | DQR | Quality | Subject | Start Date | End Date |
|----------------------|------------|-----------|--|---------------------|---------------------|
| bnfaoscpcu1mM1.b1 | D250303.1 | Incorrect | Incorrect Data | 2025-02-24T00:00:00 | 2025-02-28T23:59:59 |
| bnfaoscpcu1mM1.b1 | D250725.4 | Incorrect | Incorrect Data | 2025-07-06T09:00:00 | 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 |
| 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 |

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| Datastream | DQR | Quality | Subject | Start Date | End Date |
|----------------------|------------|-----------|--|---------------------|---------------------|
| 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 |
| bnfaopsap3w1mM1.b1 | D250917.6 | Incorrect | Incorrect Data | 2025-08-08T09:10:00 | 2025-08-08T14:10:00 |
| bnfaopsap3w1mM1.b1 | D250303.1 | Incorrect | Incorrect Data | 2025-02-24T00:00:00 | 2025-02-28T23:59:59 |
| bnfaopsap3w1mM1.b1 | D251104.13 | Incorrect | Mentors on Site - No Valid Data | 2025-10-21T00:00:00 | 2025-10-22T23:59:59 |
| bnfaopsap3w1mM1.b1 | D250917.2 | Incorrect | Incorrect Data | 2025-09-11T10:45:00 | 2025-09-11T13:52:00 |
| bnfaopsap3w1mM1.b1 | D250714.6 | Incorrect | Mentors Performing Instrument Calibrations | 2025-07-08T13:00:00 | 2025-07-12T00:00:00 |
| bnfaopsap3w1mM1.b1 | D241029.1 | Incorrect | Bad Data | 2024-10-01T00:00:00 | 2024-10-01T14:00:00 |
| bnfaopsap3w1mM1.b1 | D251121.1 | Incorrect | Bad Data | 2025-11-14T13:07:28 | 2025-11-14T17:47:43 |
| bnfaopsap3w1mM1.b1 | D241025.1 | Incorrect | Incorrect PSAP Data | 2024-10-22T13:43:00 | 2024-10-24T13:43:00 |
| bnfaopsap3w1mM1.b1 | D241125.1 | Incorrect | PSAP Leaking | 2024-10-22T13:51:00 | 2024-11-01T19:46:00 |
| bnfaopsap3w1mM1.b1 | D241125.2 | Incorrect | Flow Pump Failed | 2024-11-12T23:00:00 | 2024-11-22T20:05:00 |
| bnfaopsap3w1mM1.b1 | D250214.9 | Missing | Power Outage | 2025-01-10T16:51:26 | 2025-01-13T14:56:07 |
| bnfaopsap3w1mM1.b1 | D250409.10 | Missing | Missing Data | 2025-03-14T02:32:25 | 2025-03-17T15:32:19 |
| bnfaopsap3w1mM1.b1 | D250408.3 | Missing | Missing Data | 2025-02-16T05:48:19 | 2025-02-17T15:56:12 |
| bnfaopsap3w1mM1.b1 | D250512.11 | Missing | Missing Data | 2025-04-20T13:20:22 | 2025-04-21T17:39:15 |
| bnfaopsap3w1mM1.b1 | D250522.10 | Missing | Missing Data | 2025-04-12T14:44:32 | 2025-04-14T13:15:26 |
| bnfaopsap3w1mM1.b1 | D250529.3 | Suspect | Sample RH not Controlled | 2024-10-01T00:00:00 | 2025-05-29T00:00:00 |

ARM Data Quality Report (DQR) Table

| Datastream | DQR | Quality | Subject | Start Date | End Date |
|--------------------|------------|-----------|--|---------------------|---------------------|
| bnfaospap3w1mM1.b1 | D250602.4 | Suspect | Sample Flow not Actively Dried | 2024-10-01T00:00:00 | 2025-05-29T00:00:00 |
| bnfaossmmpsM1.b1 | D250620.6 | Incorrect | Incorrect Data | 2025-06-16T07:30:00 | 2025-06-16T15:00:00 |
| bnfaossmmpsM1.b1 | D250530.1 | Incorrect | Incorrect Data | 2025-05-14T15:00:00 | 2025-05-14T22:59:59 |
| 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 | D250725.5 | Incorrect | Incorrect Data | 2025-07-22T14:30:00 | 2025-07-22T16:59:59 |
| bnfaossmmpsM1.b1 | D250808.1 | Incorrect | Incorrect Data | 2025-08-08T09:00:00 | 2025-08-08T14:30:00 |
| bnfaossmmpsM1.b1 | D250814.3 | Incorrect | Incorrect Data | 2025-08-08T09:00:00 | 2025-08-08T16:30:00 |
| bnfaossmmpsM1.b1 | D250722.5 | Incorrect | Incorrect Data | 2025-07-22T14:30:00 | 2025-07-22T17:00:00 |
| bnfaossmmpsM1.b1 | D250513.4 | Incorrect | Incorrect Data | 2025-05-04T19:00:00 | 2025-05-06T06:59:59 |
| bnfaossmmpsM1.b1 | D250530.8 | Incorrect | Incorrect Data | 2025-05-30T17:00:00 | 2025-05-30T18:50:00 |
| bnfaossmmpsM1.b1 | D250521.4 | Incorrect | Incorrect Data | 2025-05-19T07:00:00 | 2025-05-19T14:30:00 |
| bnfaossmmpsM1.b1 | D250702.1 | Incorrect | Incorrect Data | 2025-07-02T14:00:00 | 2025-07-02T16:05:00 |
| bnfaossmmpsM1.b1 | D251104.13 | Incorrect | Mentors on Site - No Valid Data | 2025-10-21T00:00:00 | 2025-10-22T23:59:59 |
| bnfaossmmpsM1.b1 | D250512.8 | Incorrect | Incorrect Data | 2025-04-23T14:30:00 | 2025-04-24T17:50:00 |
| bnfaossmmpsM1.b1 | D250714.6 | Incorrect | Mentors Performing Instrument Calibrations | 2025-07-08T13:00:00 | 2025-07-12T00:00:00 |
| 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 |
| 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 | 2024-12-07T13:54:51 | 2024-12-09T15:00:00 |
| bnfaossmmpsM1.b1 | D250423.5 | Missing | Missing Data | 2025-04-20T02:00:00 | 2025-04-21T19:59:59 |
| 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 |

ARM Data Quality Report (DQR) Table

| Datastream | DQR | Quality | Subject | Start Date | End Date |
|------------------|------------|-----------|--|---------------------|---------------------|
| bnfaossmmpsM1.b1 | D250808.8 | Missing | Missing Data | 2025-06-27T23:30:00 | 2025-06-29T01:45:00 |
| bnfaossmmpsM1.b1 | D250606.7 | Missing | Missing Data | 2025-05-31T23:40:00 | 2025-06-02T12:35:00 |
| 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 |
| bnfaosuhsasM1.b1 | D250702.1 | Incorrect | Incorrect Data | 2025-07-02T14:00:00 | 2025-07-02T16:05:00 |
| bnfaosuhsasM1.b1 | D250714.6 | Incorrect | Mentors Performing Instrument Calibrations | 2025-07-08T13:00:00 | 2025-07-12T00:00:00 |
| bnfaosuhsasM1.b1 | D251104.13 | Incorrect | Mentors on Site - No Valid Data | 2025-10-21T00:00:00 | 2025-10-22T23:59:59 |
| bnfaosuhsasM1.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 | D250414.2 | Missing | Power Outage | 2025-04-20T13:00:00 | 2025-04-24T14:00:00 |
| 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. https://doi.org/10.5439/1822138 |
| 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. https://doi.org/10.5439/1984920 |
| 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. https://doi.org/10.5439/1407135 |
| 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. 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), 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. https://doi.org/10.5439/1323892 |
| 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. https://doi.org/10.5439/1250819 |
| 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. https://doi.org/10.5439/1398277 |
| 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. https://doi.org/10.5439/1984586 |
| 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. 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 (AOSSPAP3W1M), 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. https://doi.org/10.5439/1225037 |
| 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. https://doi.org/10.5439/1476898 |
| 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. https://doi.org/10.5439/1250820 |
| 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. 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), 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. https://doi.org/10.5439/1409033 |