

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
bnfaerisummaryM1.b1	D250314.4	Suspect	Interferometer Skipping Fringes	2024-11-18T00:00:00	2025-02-12T17:00:00
bnfceilM1.b1	D251215.3	Missing	Missing Data	2025-11-08T12:41:10	2025-11-10T16:21:10
bnfceilM1.b1	D250509.8	Missing	Missing Data due to Power Outage	2025-03-04T23:59:52	2025-03-06T00:00:03
bnfceilM1.b1	D250512.10	Missing	No Data	2025-04-23T20:50:15	2025-04-25T00:00:06
bnfhslM1.a1	D251124.2	Missing	Missing Data	2025-11-08T12:45:00	2025-11-10T15:00:00
bnfhslM1.a1	D250919.6	Missing	Missing Data	2025-05-14T20:00:01	2025-05-15T16:29:59
bnfhslM1.a1	D250811.1	Missing	No Data Available	2025-06-17T14:45:00	2025-07-27T00:45:00
bnfldM1.b1	D250122.8	Missing	Missing Data	2024-12-29T04:36:01	2025-01-07T15:14:59
bnfldM1.b1	D251215.8	Missing	Missing Data	2025-11-08T12:40:01	2025-11-12T14:30:59
bnfldM1.b1	D251202.5	Missing	No Data	2025-11-08T12:40:01	2025-11-12T14:30:59
bnfmawsM1.b1	D250319.1	Missing	Missing Data	2025-02-23T23:59:07	2025-02-25T00:00:04
bnfmfrsr7nchM1.b1	D250527.13	Incorrect	Incorrect Data	2024-12-23T12:52:00	2025-01-17T06:00:00
bnfmfrsr7nchM1.b1	D260209.3	Incorrect	Incorrect Data	2025-10-19T12:16:40	2026-01-21T21:52:00
bnfmfrsr7nchM1.b1	D250613.1	Incorrect	Incorrect Data	2025-03-27T13:51:20	2025-05-28T16:30:00
bnfmfrsr7nchM1.b1	D250929.5	Incorrect	Incorrect Data	2025-09-16T22:38:00	2025-09-19T23:56:20
bnfmfrsr7nchM1.b1	D250527.14	Missing	Missing Data	2025-01-29T20:52:41	2025-03-27T13:51:19
bnfmplpolfM1.b1	D241218.2	Missing	Missing Data	2024-12-09T00:00:00	2024-12-18T17:25:00
bnfmplpolfM1.b1	D241216.2	Missing	Missing Data	2024-09-27T13:46:24	2024-10-03T19:03:19
bnfmplpolfM1.b1	D250425.2	Missing	No Data	2025-04-20T13:20:17	2025-04-21T13:51:16
bnfmplpolfM1.b1	D250324.5	Incorrect	Data Incorrect	2025-02-24T19:00:05	2025-03-06T17:39:25
bnfmplpolfM1.b1	D250717.12	Suspect	Suspect Measurements	2025-07-03T21:00:00	2025-07-07T15:30:00
bnfmwr3cM1.b1	D250408.10	Missing	Missing Data	2025-04-07T23:07:35	2025-04-10T15:29:15
bnfmwr3cM1.b1	D250218.1	Missing	Missing Data	2025-03-05T01:00:00	2025-03-06T11:36:49
bnfmwr3cM1.b1	D251201.1	Missing	Missing Data	2025-11-14T13:00:00	2025-11-17T17:22:31
bnfmwr3cM1.b1	D250617.1	Missing	Missing Data	2025-05-19T07:00:00	2025-05-20T12:30:46
bnfmwr3cM1.b1	D250211.3	Missing	Missing Data	2024-10-01T00:00:00	2025-01-02T12:01:21
bnfmwr3cM1.b1	D250813.2	Missing	Missing Data	2025-08-08T09:00:00	2025-08-19T12:12:21
bnfmwr3cM1.b1	D250625.1	Missing	Missing Data	2025-06-20T16:00:01	2025-06-22T19:15:15
bnfmwr3cM1.b1	D250922.3	Missing	Missing Data	2025-09-04T11:00:00	2025-09-08T13:54:40
bnfmwr3cM1.b1	D250214.3	Incorrect	Incorrect Values	2025-01-13T00:00:00	2025-02-13T00:00:00

ARM Data Quality Report (DQR) Table

Datastream	DQR	Quality	Subject	Start Date	End Date
bnfmwr3cM1.b1	D250211.2	Suspect	Calibration Uncertain	2024-09-04T12:00:00	2024-09-18T23:59:59
bnfrlM1.a0	D251029.1	Incorrect	Incorrect Data due to Low Energy Level	2025-08-30T00:00:00	2025-10-06T15:28:36
bnfrlM1.a0	D250415.7	Missing	Missing Data	2025-04-12T14:44:28	2025-04-14T14:37:47
bnfrlM1.a0	D250407.2	Missing	Missing Data	2025-03-26T14:44:20	2025-03-28T14:59:19
bnfrlM1.a0	D250807.8	Missing	Missing Data	2025-07-14T14:54:08	2025-07-15T21:58:41
bnfrlM1.a0	D250224.4	Missing	Missing Data	2025-01-10T16:51:19	2025-01-13T18:25:07
bnfrlM1.a0	D251007.2	Missing	Missing Data	2025-09-04T11:31:20	2025-09-09T15:17:00
bnfrlM1.a0	D251109.2	Missing	Missing Data	2025-10-06T15:28:36	2025-10-29T21:53:19
bnfrlM1.a0	D250717.3	Missing	Missing Data	2025-06-26T09:31:29	2025-06-27T14:11:35
bnfrlM1.a0	D250827.2	Missing	Missing Data	2025-08-02T04:06:51	2025-08-04T14:39:18
bnfrlM1.a0	D250328.10	Missing	No Data	2025-02-16T05:48:09	2025-02-20T15:24:16
bnfrlM1.a0	D241112.2	Missing	Missing Data	2024-12-25T14:51:37	2024-12-31T16:42:10
bnfrlM1.a0	D250327.2	Missing	Missing Data	2025-03-15T09:32:10	2025-03-17T14:23:58
bnfrlM1.a0	D250717.2	Missing	Missing Data	2025-06-07T18:35:42	2025-06-09T14:36:22
bnfrlM1.a0	D250519.2	Missing	Missing Data	2025-04-20T13:20:18	2025-04-21T14:54:51
bnfrlM1.a0	D260202.2	Missing	Missing Data	2026-01-22T13:44:33	2026-01-27T16:57:59
bnfskyrad60sM1.b1	D240929.3	Incorrect	Incorrect Data	2025-02-22T22:46:00	2025-02-22T23:39:38
bnfskyrad60sM1.b1	D250819.1	Incorrect	Incorrect Data	2025-08-14T19:51:00	2025-08-22T15:33:00
bnfskyrad60sM1.b1	D251212.1	Incorrect	Incorrect Data	2025-12-09T18:29:00	2025-12-10T14:05:00
bnfskyrad60sM1.b1	D241112.3	Incorrect	Data Incorrect due to Reversed Signal Polarity	2024-10-01T00:00:00	2024-10-24T18:27:00
bnfskyrad60sM1.b1	D251104.2	Suspect	Questionable Data	2025-10-18T13:19:00	2025-10-18T14:06:59
bnfskyrad60sM1.b1	D241231.2	Suspect	Suspect Data due to Instrument/Environmental Conditions	2024-11-22T15:30:00	2024-11-22T15:44:00
bnfsondewnpnM1.b1	D250107.9	Missing	No SONDE Launches	2025-01-29T00:00:00	2025-01-29T23:59:59
bnfsondewnpnM1.b1	D250205.2	Missing	No Launches	2025-02-10T00:00:00	2025-02-11T23:59:59
bnfvdisM1.b1	D250611.2	Missing	Missing Data	2025-06-14T00:00:00	2025-06-15T23:59:59
bnfvdisM1.b1	D241126.3	Missing	Missing Data	2024-10-01T00:00:00	2024-11-19T23:59:59
bnfvdisM1.b1	D260113.1	Missing	Missing Data	2025-12-11T00:00:00	2025-12-11T23:59:59
bnfvdisM1.b1	D250207.7	Missing	Missing Data	2025-01-28T00:00:00	2025-01-28T23:59:59
bnfvdisM1.b1	D250320.2	Missing	Missing Data	2025-03-28T00:00:00	2025-04-01T23:59:59
bnfvdisM1.b1	D250411.7	Missing	Missing Data	2025-04-07T00:00:00	2025-04-07T23:59:59

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Datastream	DQR	Quality	Subject	Start Date	End Date
bnfvdisM1.b1	D251014.4	Missing	Missing Data	2025-10-10T00:00:00	2025-10-14T23:59:59
bnfvdisM1.b1	D251002.4	Missing	Missing Data	2025-09-18T00:00:00	2025-09-22T23:59:59
bnfvdisM1.b1	D251119.1	Missing	Missing Data	2025-11-08T00:00:00	2025-11-09T23:59:59
bnfvdisM1.b1	D241204.3	Missing	Missing Data	2024-11-22T00:00:00	2024-11-23T23:59:59
bnfvdisM1.b1	D251118.6	Missing	No Data	2025-10-29T00:00:00	2025-10-29T23:59:59
bnfvdisM1.b1	D251202.4	Incorrect	Incorrect Data	2025-11-26T00:00:00	2025-11-28T23:59:59
bnfwbpluvio2M1.a1	D251014.5	Suspect	Questionable Data	2025-06-22T00:00:00	2025-09-12T23:59:59
bnfwbpluvio2M1.a1	D250320.5	Suspect	Suspect Data	2025-03-05T01:00:00	2025-03-05T03:00:00
bnfwbpluvio2M1.a1	D250425.10	Suspect	Suspect Data	2025-04-09T15:00:00	2025-04-09T17:00:00
bnfwbpluvio2M1.a1	D250123.8	Suspect	Suspicious Data	2024-12-29T01:00:00	2024-12-29T05:00:00
bnfwbpluvio2M1.a1	D250728.2	Incorrect	Incorrect Data	2025-06-26T00:00:00	2025-07-14T23:59:59

## ARM Data Object Identifier (DOI) Table

Instrument	DOI
AERI	Gero, J., Garcia, R., Hackel, D., Ermold, B., & Gaustad, K. Atmospheric Emitted Radiance Interferometer (AERICH1), 2025-1-01 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/10.5439/1989299">https://doi.org/10.5439/1989299</a>
CEIL	Zhang, D., Morris, V., & Ermold, B. Ceilometer (CEIL10M), 2025-1-01 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/10.5439/1497398">https://doi.org/10.5439/1497398</a>
DL	Newsom, R., Shi, Y., & Krishnamurthy, R. Doppler Lidar (DLCAL1), 2025-1-01 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/10.5439/1025183">https://doi.org/10.5439/1025183</a>
GNDRAD	Sengupta, M., Habte, A., Andreas, A., Reda, I., Jaker, S., Xie, Y., Yang, J., Gotseff, P., Kutchenreiter, M., & Shi, Y. Ground Radiometers on Stand for Upwelling Radiation (GNDRAD60S), 2025-1-01 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/10.5439/1377837">https://doi.org/10.5439/1377837</a>
HSRL	Bambha, R., Eloranta, E., Garcia, J. P., Razenkov, I., & Ermold, B. High Spectral Resolution Lidar (HSRL5S), 2025-1-01 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.
IRT	Shi, Y., Howie, J., Goldberger, L., & Morris, V. Infrared Thermometer (IRT), 2025-1-01 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/10.5439/1329238">https://doi.org/10.5439/1329238</a>
LDIS	Zhu, Z., & Shi, Y. Laser Disdrometer (LD), 2025-1-01 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/10.5439/1973058">https://doi.org/10.5439/1973058</a>
MAWS	Keeler, E., Kyrouac, J., & Ermold, B. Automatic Weather Station (MAWS), 2025-1-01 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/10.5439/1162061">https://doi.org/10.5439/1162061</a>
MET	Kyrouac, J., Shi, Y., & Tuftedal, M. Surface Meteorological Instrumentation (MET), 2025-1-01 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/10.5439/1786358">https://doi.org/10.5439/1786358</a>
MFRSR	Hodges, G., Sheffer, B., Herrera, C., & Ermold, B. Multifilter Rotating Shadowband Radiometer (MFRSR7NCH), 2025-1-01 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/10.5439/1429369">https://doi.org/10.5439/1429369</a>
MPL	Muradyan, P., Cromwell, E., Koontz, A., Coulter, R., Flynn, C., Ermold, B., & OBrien, J. Micropulse Lidar (MPLPOLFS), 2025-1-01 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/10.5439/1320657">https://doi.org/10.5439/1320657</a>
MWR3C	Cadeddu, M., Gibler, G., Koontz, A., & Tuftedal, M. Microwave Radiometer, 3 Channel (MWR3C), 2025-1-01 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/10.5439/1025248">https://doi.org/10.5439/1025248</a>
RL	Newsom, R., Bambha, R., & Chand, D. Raman Lidar (RL), 2025-1-01 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/10.5439/1996909">https://doi.org/10.5439/1996909</a>

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Instrument	DOI
SKYRAD	Sengupta, M., Habte, A., Andreas, A., Reda, I., Jaker, S., Xie, Y., Yang, J., Gotseff, P., Kutchenreiter, M., & Shi, Y. Sky Radiometers on Stand for Downwelling Radiation (SKYRAD60S), 2025-1-01 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/10.5439/1377836">https://doi.org/10.5439/1377836</a>
SONDE	Keeler, E., Burk, K., & Kyrouac, J. Balloon-Borne Sounding System (SONDEWNPN), 2025-1-01 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/10.5439/1595321">https://doi.org/10.5439/1595321</a>
VDIS	Zhu, Z. Video Disdrometer (VDIS), 2025-1-01 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/10.5439/1992988">https://doi.org/10.5439/1992988</a>
WB	Zhu, Z., Wang, D., Jane, M., Cromwell, E., Sturm, M., Irving, K., & Delamere, J. Weighing Bucket Precipitation Gauge (WBPLUVIO2), 2025-1-01 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/10.5439/1338194">https://doi.org/10.5439/1338194</a>