

Bankhead National Forest, AL, Supplemental facility at Courtland
Atmospheric Radiation Measurement User Facility



ARM Data Quality Report (DQR) Table

Datastream	DQR	Quality	Subject	Start Date	End Date
bnfaerisummaryS20.b1	D250103.1	Suspect	Interferometer Intermittently Skipping Fringes	2024-10-01T00:00:00	2024-11-13T23:59:59
bnfaerisummaryS20.b1	D251010.2	Missing	Missing Data	2025-09-20T15:07:55	2025-09-21T19:22:18
bnfdlfptS20.b1	D250711.12	Missing	No Data	2025-06-17T16:25:00	2025-06-19T17:50:00
bnfdlfptS20.b1	D250210.3	Missing	No Data	2024-12-22T02:15:28	2024-12-23T17:15:02
bnfdlfptS20.b1	D250509.14	Missing	Missing Data	2025-03-24T17:59:52	2025-03-30T03:39:19
bnfdlfptS20.b1	D250207.8	Missing	No Data	2024-10-21T15:47:38	2024-10-23T19:21:17
bnfdlfptS20.b1	D250627.7	Incorrect	Bad Radial Velocity Data	2025-05-23T14:05:07	2025-06-19T17:48:00
bnfmwr3cS20.b1	D241030.3	Missing	Missing Data	2024-10-19T14:00:00	2024-10-24T12:54:59
bnfmwr3cS20.b1	D250317.15	Missing	Missing Data	2025-02-16T18:00:00	2025-02-20T15:15:03
bnfmwr3cS20.b1	D250425.4	Missing	Missing Data	2025-04-22T12:22:36	2025-04-25T14:02:05
bnfmwr3cS20.b1	D250123.13	Missing	Missing Data	2024-12-19T02:57:48	2024-12-20T04:37:32
bnfmwr3cS20.b1	D250617.2	Missing	Missing Data	2025-05-05T13:59:58	2025-05-08T16:05:14
bnfmwr3cS20.b1	D250813.4	Missing	Missing Data	2025-07-15T22:00:00	2025-07-17T14:06:08
bnfmwr3cS20.b1	D250102.2	Missing	Missing Data	2024-12-23T16:00:00	2025-01-03T14:55:46
bnfmwr3cS20.b1	D250701.1	Suspect	Occasional Spikes in Brightness Temperatures and Retrievals	2025-06-02T00:00:00	2025-06-13T00:00:00
bnfmwr3cS20.b1	D250701.2	Incorrect	Incorrect IR Temperature	2025-06-02T18:00:00	2025-06-10T20:00:00
bnfirtS20.b1	D250512.2	Missing	No Data	2025-05-02T18:39:07	2025-05-04T20:39:59
bnfirtS20.b1	D250627.8	Missing	No Data	2025-05-19T07:53:07	2025-05-29T13:08:59
bnfirtS20.b1	D241114.2	Missing	Missing Data	2024-10-19T12:59:07	2024-10-22T19:20:59
bnfmfrsr7nchS20.b1	D250311.3	Incorrect	Incorrect Data	2025-01-30T12:47:00	2025-02-10T23:34:00
bnfmfrsr7nchS20.b1	D250311.2	Incorrect	Incorrect Data	2025-01-29T15:43:20	2025-01-30T07:01:00
bnfmfrsr7nchS20.b1	D250326.1	Incorrect	Incorrect Data	2024-11-12T23:10:11	2024-11-14T16:12:11
bnfmfrsr7nchS20.b1	D250228.6	Incorrect	Incorrect Data	2024-11-20T11:41:00	2025-01-08T16:04:40
bnfmfrsr7nchS20.b1	D250326.2	Incorrect	Incorrect Data	2024-11-01T07:02:00	2024-11-20T00:00:00
bnfmfrsr7nchS20.b1	D250929.6	Missing	Missing Data	2025-09-06T11:39:27	2025-09-08T14:58:59
bnfmfrsr7nchS20.b1	D250228.7	Missing	Missing Data	2025-01-08T16:04:40	2025-01-29T15:43:20
bnfsebsS20.b1	D250307.6	Incorrect	Incorrect Energy Storage Change	2025-01-08T17:30:00	2025-02-28T19:00:00
bnfskyrad60sS20.b1	D240929.4	Incorrect	Incorrect Data	2025-08-03T11:03:00	2025-08-04T00:50:04
bnfskyrad60sS20.b1	D241203.3	Incorrect	Erratic Readings from PIR1	2024-10-07T08:19:00	2024-11-15T18:30:00
bnfskyrad60sS20.b1	D250130.1	Incorrect	Incorrect Data	2025-01-08T17:16:00	2025-01-16T17:33:00

ARM Data Quality Report (DQR) Table

Datastream	DQR	Quality	Subject	Start Date	End Date
bnfskyrad60sS20.b1	D250127.1	Incorrect	Incorrect Data	2024-12-17T16:30:00	2025-01-16T17:04:00
bnfskyrad60sS20.b1	D241203.2	Suspect	Tracker (and Instruments) Out of Alignment	2024-10-02T06:00:00	2024-11-18T16:35:00
bnfstampS20.b1	D250923.6	Missing	Missing Data	2025-09-06T11:30:00	2025-09-08T14:59:59
bnfstampS20.b1	D241029.13	Missing	Missing Data	2024-10-01T00:00:00	2024-10-22T19:00:00

ARM Data Object Identifier (DOI) Table

Instrument	DOI
AERI	Gero, J., Garcia, R., Hackel, D., Ermold, B., & Gaustad, K. Atmospheric Emitted Radiance Interferometer (AERICH1), 2025-01-01 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/10.5439/1989299
DL	Newsom, R., Shi, Y., & Krishnamurthy, R. Doppler Lidar (DLCAL1), 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/10.5439/1025183
MWR3C	Cadeddu, M., Gibler, G., Koontz, A., & Tuftedal, M. Microwave Radiometer, 3 Channel (MWR3C), 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/10.5439/1025248
ECOR	Sullivan, R., Cook, D., Shi, Y., Keeler, E., & Pal, S. Eddy Correlation Flux Measurement System (ECORSF), 2025-01-01 to 2025-12-31, Bankhead National Forest, AL, USA; Long-term Mobile Facility (BNF), Bankhead National Forest, AL, Supplemental facility for STAMP2 near Tower Site (S13). Atmospheric Radiation Measurement (ARM) User Facility. https://doi.org/10.5439/1494128
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), 2025-01-01 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/10.5439/1377837
IRT	Shi, Y., Howie, J., Goldberger, L., & Morris, V. Infrared Thermometer (IRT), 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/10.5439/1329238
MET	Kyrouac, J., Shi, Y., & Tuftedal, M. Surface Meteorological Instrumentation (MET), 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/10.5439/1786358
MFRSR	Hodges, G., Herrera, C., & Ermold, B. Multifilter Rotating Shadowband Radiometer (MFRSR7NCH), 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/10.5439/1429369
SEBS	Sullivan, R., Keeler, E., Pal, S., & Kyrouac, J. Surface Energy Balance System (SEBS), 2025-01-01 to 2025-12-31, Bankhead National Forest, AL, USA; Long-term Mobile Facility (BNF), Bankhead National Forest, AL, AMF3 (Tower Site) (S10). Atmospheric Radiation Measurement (ARM) User Facility. https://doi.org/10.5439/1984921
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), 2025-01-01 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/10.5439/1377836
STAMP	Kyrouac, J., Cook, D., Ermold, B., Pal, S., Sullivan, R., & Keeler, E. Soil Temperature and Moisture Profiles (STAMP), 2025-01-01 to 2025-12-31, Bankhead National Forest, AL, USA; Long-term Mobile Facility (BNF), Bankhead National Forest, AL, AMF3 (Tower Site) (S10). Atmospheric Radiation Measurement (ARM) User Facility. https://doi.org/10.5439/1238260