

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 |
| 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                                    | 2025-05-23T14:05:01 | 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   | 2025-05-02T18:39:01 | 2025-05-04T20:39:59 |
| bnfirtS20.b1         | D250627.8  | Missing   | No Data   | 2025-05-19T07:53:01 | 2025-05-29T13:08:59 |
| bnfirtS20.b1         | D241114.2  | Missing   | Missing Data  | 2024-10-19T12:59:01 | 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   | 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  | 2024-12-10T12:44:55 | 2024-12-10T13:24:00 |
| 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 |
| 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 |

ARM Data Quality Report (DQR) Table

| Datastream     | DQR        | Quality | Subject      | Start Date          | End Date            |
|----------------|------------|---------|--------------|---------------------|---------------------|
| 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. <a href="https://doi.org/10.5439/1989299">https://doi.org/10.5439/1989299</a>   |
| 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. <a href="https://doi.org/10.5439/1025183">https://doi.org/10.5439/1025183</a>   |
| 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. <a href="https://doi.org/10.5439/1025248">https://doi.org/10.5439/1025248</a>   |
| 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. <a href="https://doi.org/10.5439/1494128">https://doi.org/10.5439/1494128</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), 2025-01-01 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/10.5439/1377837">https://doi.org/10.5439/1377837</a> |
| 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. <a href="https://doi.org/10.5439/1329238">https://doi.org/10.5439/1329238</a>   |
| 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. <a href="https://doi.org/10.5439/1786358">https://doi.org/10.5439/1786358</a>   |
| 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. <a href="https://doi.org/10.5439/1429369">https://doi.org/10.5439/1429369</a>  |
| 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. <a href="https://doi.org/10.5439/1984921">https://doi.org/10.5439/1984921</a>   |
| 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. <a href="https://doi.org/10.5439/1377836">https://doi.org/10.5439/1377836</a>  |
| 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. <a href="https://doi.org/10.5439/1238260">https://doi.org/10.5439/1238260</a>   |