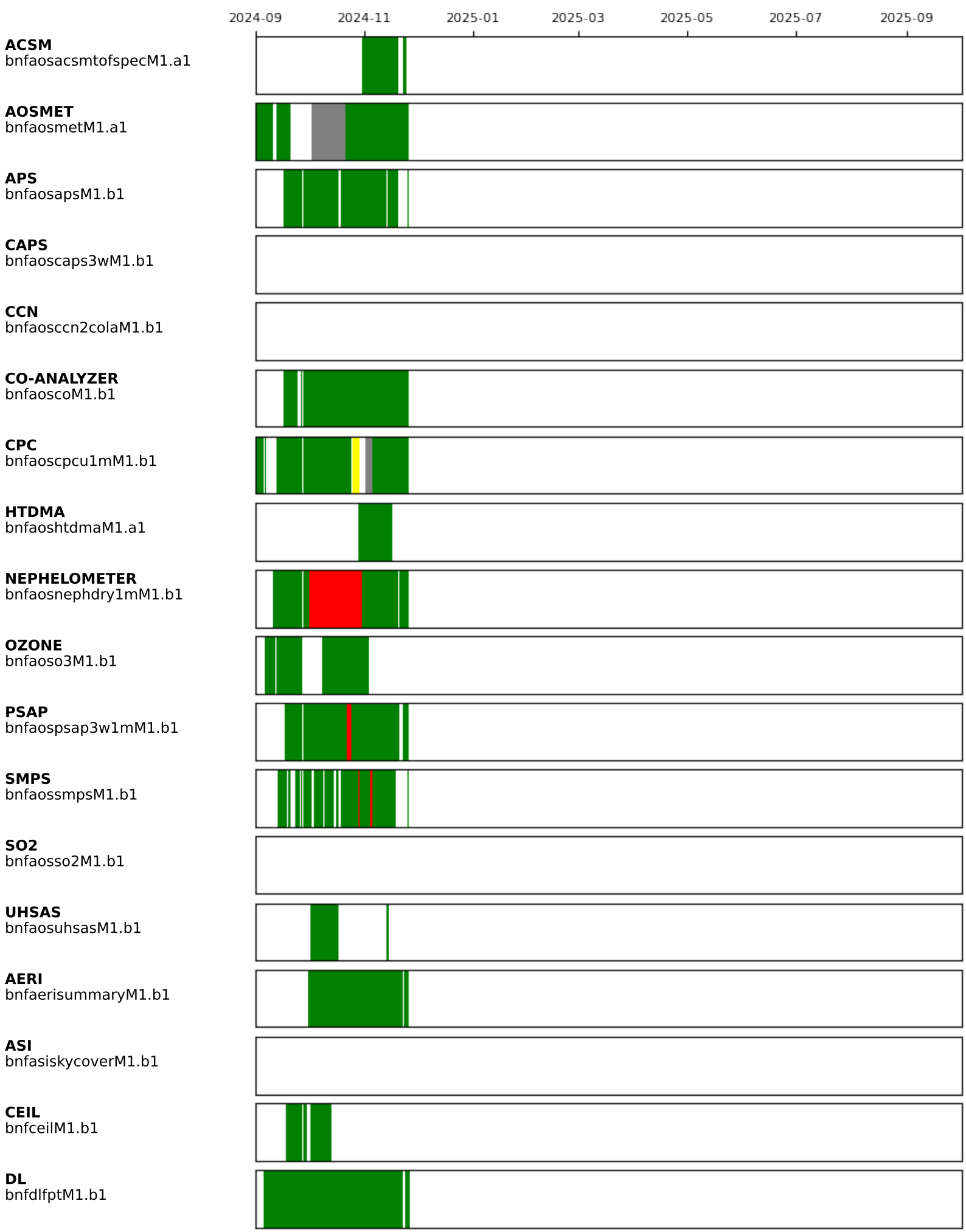
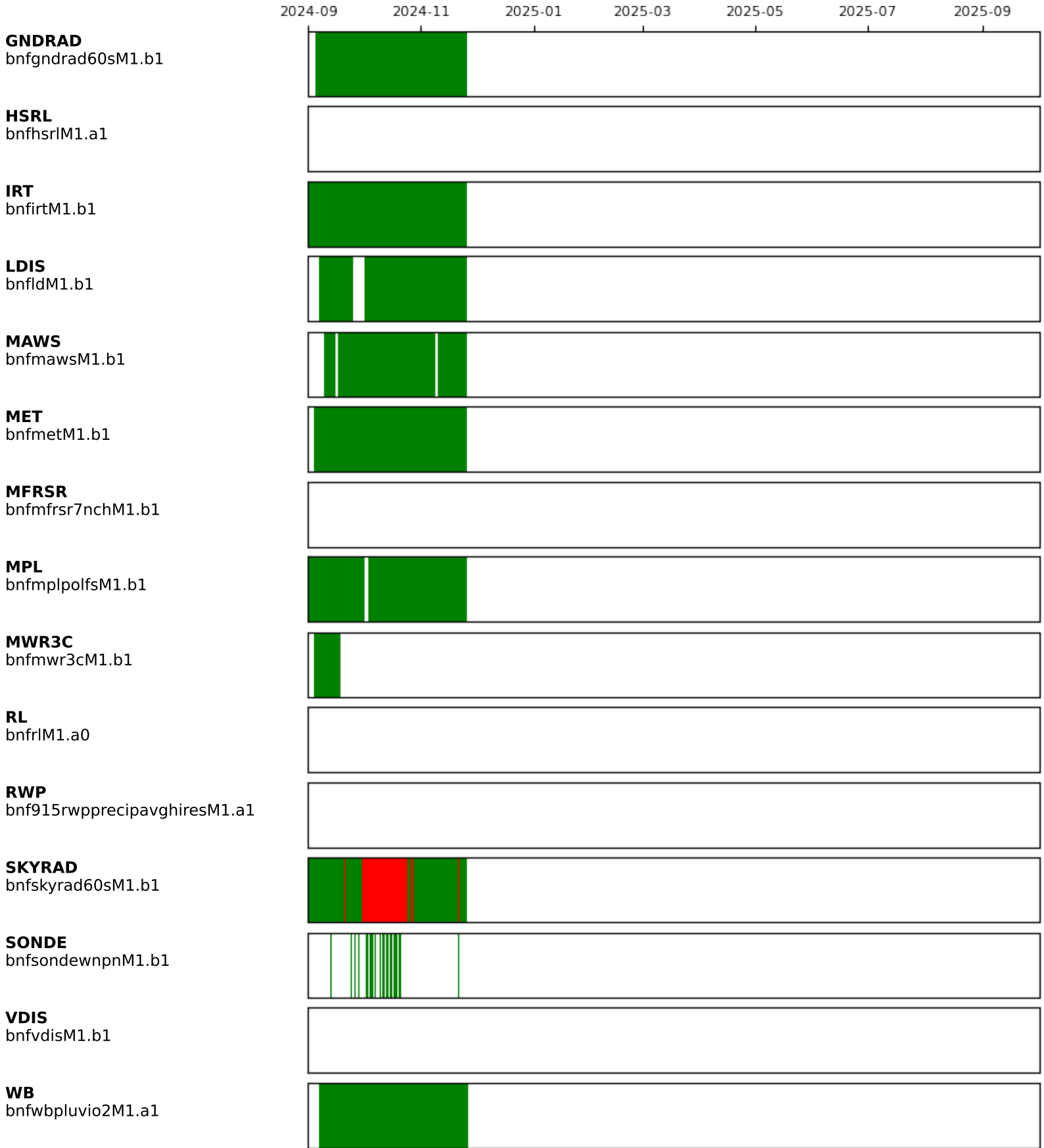


Bankhead National Forest, AL, AMF3 (Main Site)  
Atmospheric Radiation Measurement User Facility





ARM Data Quality Report (DQR) Table

| Datastream           | DQR        | Quality   | Subject  | Start Date          | End Date            |
|----------------------|------------|-----------|--|---------------------|---------------------|
| bnfaosmetM1.a1       | D241031.1  | Missing   | Failed Power and Intermittent Communications   | 2024-10-01T00:00:00 | 2024-10-21T20:27:59 |
| bnfaospcu1mM1.b1     | D241116.4  | Suspect   | Suspect  | 2024-10-25T18:00:00 | 2024-10-29T13:00:00 |
| bnfaospcu1mM1.b1     | D241116.3  | Missing   | Missing Data                                   | 2024-10-29T14:23:32 | 2024-11-01T17:34:24 |
| bnfaosnephdry1mM1.b1 | D241105.3  | Incorrect | Bulb Burned Out                                | 2024-10-01T04:14:41 | 2024-10-30T23:59:59 |
| bnfaospsap3w1mM1.b1  | D241029.1  | Incorrect | Bad Data                                       | 2024-10-01T00:00:00 | 2024-10-01T14:00:00 |
| bnfaospsap3w1mM1.b1  | D241025.1  | Incorrect | Incorrect PSAP Data                            | 2024-10-22T13:43:00 | 2024-10-24T13:43:00 |
| bnfaossmmpsM1.b1     | D241029.12 | Missing   | Missing Data                                   | 2024-10-14T20:20:03 | 2024-10-16T16:15:00 |
| bnfaossmmpsM1.b1     | D241105.1  | Incorrect | Incorrect Data                                 | 2024-10-28T20:00:00 | 2024-10-29T18:00:00 |
| bnfskyrad60sM1.b1    | D240929.3  | Incorrect | Incorrect Data                                 | 2024-10-09T11:50:24 | 2024-10-09T12:59:00 |
| bnfskyrad60sM1.b1    | D241112.3  | Incorrect | Data Incorrect due to Reversed Signal Polarity | 2024-10-01T00:00:00 | 2024-10-24T18:27:00 |

## 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). 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). 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). Atmospheric Radiation Measurement (ARM) User Facility. <a href="https://doi.org/10.5439/1407135">https://doi.org/10.5439/1407135</a>  |
| CAPS         | N/A   |
| CCN          | Uin, J., Koontz, A., Andrews, E., Enekwizu, O., Hayes, C., & Salwen, C. Cloud Condensation Nuclei Particle Counter (AOSCCN100). Atmospheric Radiation Measurement (ARM) User Facility. <a href="https://doi.org/10.5439/1227964">https://doi.org/10.5439/1227964</a>              |
| CO-ANALYZER  | Koontz, A., Springston, S., & Trojanowski, R. Carbon Monoxide Analyzer (AOSCO). 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 (AOSPCF1M). Atmospheric Radiation Measurement (ARM) User Facility. <a href="https://doi.org/10.5439/1398277">https://doi.org/10.5439/1398277</a>                  |
| HTDMA        | Uin, J., Cromwel, E., Hayes, C., & Salwen, C. Humidified Tandem Differential Mobility Analyzer (AOSHTDMA). Atmospheric Radiation Measurement (ARM) User Facility. <a href="https://doi.org/10.5439/1095581">https://doi.org/10.5439/1095581</a>                                   |
| NEPHELOMETER | Uin, J., Hayes, C., & Mayol Bracero, O. Nephelometer (AOSNEPHDRY1M). 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). 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). 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 (AOSMPS). Atmospheric Radiation Measurement (ARM) User Facility. <a href="https://doi.org/10.5439/1476898">https://doi.org/10.5439/1476898</a>  |
| SO2          | Trojanowski, R., Springston, S., & Koontz, A. Sulfur Dioxide Monitor (AOSSO2). Atmospheric Radiation Measurement (ARM) User Facility. <a href="https://doi.org/10.5439/1342164">https://doi.org/10.5439/1342164</a>   |
| UHSAS        | Uin, J., Senum, G., Koontz, A., Flynn, C., Salwen, C., & Hayes, C. Ultra-High Sensitivity Aerosol Spectrometer (AOSUHSAS). Atmospheric Radiation Measurement (ARM) User Facility. <a href="https://doi.org/10.5439/1409033">https://doi.org/10.5439/1409033</a>                   |
| AERI         | Gero, J., Garcia, R., Hackel, D., Ermold, B., & Gaustad, K. Atmospheric Emitted Radiance Interferometer (AERICH1). Atmospheric Radiation Measurement (ARM) User Facility. <a href="https://doi.org/10.5439/1989299">https://doi.org/10.5439/1989299</a>                           |
| ASI          | Flynn, D. All Sky Imager (ASIMOVIE). Atmospheric Radiation Measurement (ARM) User Facility. <a href="https://doi.org/10.5439/1890630">https://doi.org/10.5439/1890630</a>   |
| CEIL         | Zhang, D., Morris, V., & Ermold, B. Ceilometer (CEIL10M). Atmospheric Radiation Measurement (ARM) User Facility. <a href="https://doi.org/10.5439/1497398">https://doi.org/10.5439/1497398</a>  |

## ARM Data Object Identifier (DOI) Table

| Instrument | DOI   |
|------------|---|
| DL         | Newsom, R., Shi, Y., & Krishnamurthy, R. Doppler Lidar (DLFPT). Atmospheric Radiation Measurement (ARM) User Facility. <a href="https://doi.org/10.5439/1025185">https://doi.org/10.5439/1025185</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). 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., & Ermold, B. High Spectral Resolution Lidar (HSRL). Atmospheric Radiation Measurement (ARM) User Facility. <a href="https://doi.org/10.5439/1972278">https://doi.org/10.5439/1972278</a>  |
| IRT        | Shi, Y., Howie, J., Goldberger, L., & Morris, V. Infrared Thermometer (IRT). Atmospheric Radiation Measurement (ARM) User Facility. <a href="https://doi.org/10.5439/1329238">https://doi.org/10.5439/1329238</a>   |
| LDIS       | Zhu, Z., Wang, D., & Shi, Y. Laser Disdrometer (LD). 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). 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). Atmospheric Radiation Measurement (ARM) User Facility. <a href="https://doi.org/10.5439/1786358">https://doi.org/10.5439/1786358</a>   |
| MFRSR      | Hodges, G., Ermold, B., & Herrera, C. Multifilter Rotating Shadowband Radiometer (MFRSR). Atmospheric Radiation Measurement (ARM) User Facility. <a href="https://doi.org/10.5439/1462546">https://doi.org/10.5439/1462546</a>  |
| MPL        | Muradyan, P., Cromwell, E., Koontz, A., Coulter, R., Flynn, C., Ermold, B., & OBrien, J. Micropulse Lidar (MPLPOLFS). 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). 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). Atmospheric Radiation Measurement (ARM) User Facility. <a href="https://doi.org/10.5439/1996909">https://doi.org/10.5439/1996909</a>  |
| RWP        | Muradyan, P., & Ermold, B. Radar Wind Profiler (915RWPPRECIPAVGHIRE). Atmospheric Radiation Measurement (ARM) User Facility. <a href="https://doi.org/10.5439/1572188">https://doi.org/10.5439/1572188</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). 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 (SONDEWNP). Atmospheric Radiation Measurement (ARM) User Facility. <a href="https://doi.org/10.5439/1595321">https://doi.org/10.5439/1595321</a>  |
| VDIS       | Zhu, Z., & Wang, D. Video Disdrometer (VDIS). Atmospheric Radiation Measurement (ARM) User Facility. <a href="https://doi.org/10.5439/1992988">https://doi.org/10.5439/1992988</a>  |
| WB         | Wang, D., Jane, M., Cromwell, E., Sturm, M., Irving, K., Delamere, J., & Mockaitis, M. Weighing Bucket Precipitation Gauge (WBPLUVIO2). Atmospheric Radiation Measurement (ARM) User Facility. <a href="https://doi.org/10.5439/1338194">https://doi.org/10.5439/1338194</a>  |