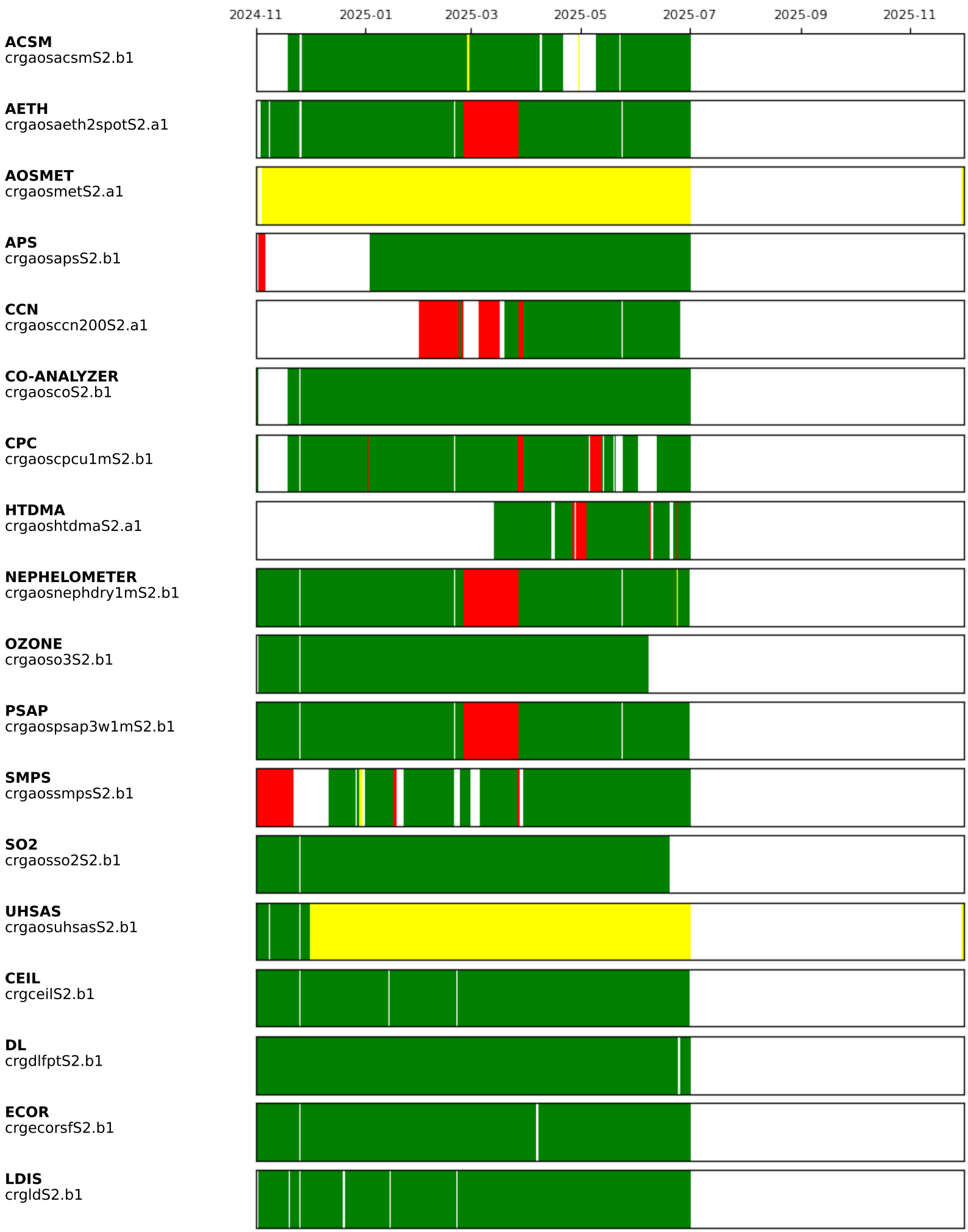


Baltimore, MD; Supplemental Facility 2 in rural setting  
Atmospheric Radiation Measurement User Facility



2024-11                      2025-01                      2025-03                      2025-05                      2025-07                      2025-09                      2025-11

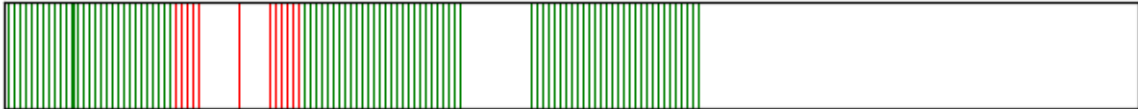
**MAWS**  
crgmawsS2.b1



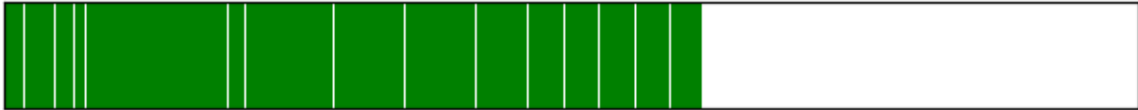
**METWXT**  
crgmetwxtS2.b1



**MFRSR**  
crgmfrsr7nchS2.b1



**MWR3C**  
crgmwr3cS2.b1



**POPS**  
crgpopsS2.a1



**SEBS**  
crgsebsS2.b1



**SIRS**  
crgsirsS2.b1



ARM Data Quality Report (DQR) Table

Datastream	DQR	Quality	Subject	Start Date	End Date
crgaosacsmS2.b1	D250606.8	Missing	Missing Data	2025-05-02T14:22:18	2025-05-06T13:22:32
crgaosacsmS2.b1	D250415.8	Missing	No Data	2025-04-08T13:36:14	2025-04-09T19:08:24
crgaosacsmS2.b1	D250606.9	Suspect	Questionable Data	2025-04-29T16:22:45	2025-04-30T19:55:18
crgaosacsmS2.b1	D250227.3	Suspect	Possible Data Contamination	2025-02-26T20:00:00	2025-02-27T21:40:00
crgaosae2h2spotS2.a1	D250402.1	Incorrect	Instrument Sampling Cabin Air	2025-02-24T18:00:00	2025-03-27T19:00:00
crgaosmetS2.a1	D241204.6	Suspect	AOSMET Wind Direction Offset Issue	2024-10-24T00:00:00	2025-11-30T23:59:59
crgaosapsS2.b1	D250425.3	Incorrect	Incorrect Data	2025-04-24T15:30:00	2025-04-24T17:30:00
crgaosapsS2.b1	D250123.2	Incorrect	Incorrect Data	2024-10-24T16:00:00	2024-11-06T14:00:00
crgaosapsS2.b1	D250411.5	Incorrect	Incorrect Data	2025-04-11T15:30:00	2025-04-11T16:30:00
crgaosapsS2.b1	D250123.5	Missing	Missing Data	2024-11-06T14:00:00	2025-01-03T16:59:59
crgaosccn200S2.a1	D250328.5	Incorrect	Incorrect Data	2025-01-30T20:00:00	2025-02-22T04:00:00
crgaosccn200S2.a1	D250410.3	Incorrect	Incorrect Data	2025-02-23T16:30:00	2025-02-24T14:56:32
crgaosccn200S2.a1	D250328.6	Incorrect	Incorrect Data	2025-01-30T19:08:00	2025-01-30T19:25:00
crgaosccn200S2.a1	D250410.5	Incorrect	Incorrect Data	2025-03-03T16:07:27	2025-03-16T20:00:00
crgaosccn200S2.a1	D250410.8	Incorrect	Incorrect Data	2025-03-27T13:00:00	2025-03-29T22:00:00
crgaosccn200S2.a1	D250410.7	Missing	Missing Data	2025-03-16T20:00:00	2025-03-19T13:00:00
crgaosccn200S2.a1	D250328.7	Missing	Missing Data	2025-02-19T13:50:00	2025-02-19T14:54:00
crgaosccn200S2.a1	D250410.4	Missing	Missing Data	2025-02-24T14:56:32	2025-03-03T16:07:27
crgaospcpu1mS2.b1	D250403.1	Incorrect	Incorrect Data	2025-03-27T00:00:00	2025-03-29T23:59:59
crgaospcpu1mS2.b1	D250530.7	Incorrect	Incorrect Data	2025-05-06T12:00:00	2025-05-12T17:59:59
crgaospcpu1mS2.b1	D250108.4	Incorrect	Incorrect Data	2025-01-02T00:00:00	2025-01-02T15:00:00
crgaoshtdmaS2.a1	D250618.1	Incorrect	Pump Failure	2025-06-08T23:00:00	2025-06-10T13:00:00
crgaoshtdmaS2.a1	D250625.2	Incorrect	Power Outage	2025-06-23T23:00:00	2025-06-24T15:00:00
crgaoshtdmaS2.a1	D250513.3	Incorrect	Instrument in Troubleshooting Mode	2025-04-26T13:10:47	2025-05-04T15:00:00
crgaoshtdmaS2.a1	D250623.3	Missing	Power Outage	2025-06-19T19:37:06	2025-06-21T16:10:05
crgaosnephdry1mS2.b1	D250625.3	Suspect	Sample Flow Lower than Nominal	2025-06-23T23:00:00	2025-06-24T13:00:00
crgaosnephdry1mS2.b1	D250402.1	Incorrect	Instrument Sampling Cabin Air	2025-02-24T18:00:00	2025-03-27T19:00:00
crgaospsap3w1mS2.b1	D250402.1	Incorrect	Instrument Sampling Cabin Air	2025-02-24T18:00:00	2025-03-27T19:00:00
crgaossmppsS2.b1	D250227.4	Missing	Missing Data	2025-02-19T16:05:01	2025-02-22T17:09:59
crgaossmppsS2.b1	D250123.6	Missing	Missing Data	2024-11-21T17:35:01	2024-12-11T19:09:59

ARM Data Quality Report (DQR) Table

Datastream	DQR	Quality	Subject	Start Date	End Date
crgaossmpsS2.b1	D250307.5	Missing	Missing Data	2025-02-28T18:25:00	2025-03-05T18:49:59
crgaossmpsS2.b1	D250130.3	Missing	Missing Data	2025-01-18T16:00:00	2025-01-22T18:19:59
crgaossmpsS2.b1	D250108.5	Missing	No Data	2024-12-30T20:10:00	2024-12-31T17:31:08
crgaossmpsS2.b1	D250404.3	Incorrect	Incorrect Data	2025-04-03T16:00:00	2025-04-03T16:59:59
crgaossmpsS2.b1	D250123.9	Incorrect	Incorrect Data	2024-10-24T20:00:00	2024-11-21T17:35:01
crgaossmpsS2.b1	D250127.3	Incorrect	Incorrect Data	2025-01-16T17:00:00	2025-01-18T16:00:00
crgaossmpsS2.b1	D250425.3	Incorrect	Incorrect Data	2025-04-24T15:30:00	2025-04-24T17:30:00
crgaossmpsS2.b1	D250423.3	Incorrect	Incorrect Data	2025-04-18T13:00:00	2025-04-18T14:59:59
crgaossmpsS2.b1	D250403.1	Incorrect	Incorrect Data	2025-03-27T00:00:00	2025-03-29T23:59:59
crgaossmpsS2.b1	D250108.6	Suspect	Quality Issue	2024-12-28T16:00:00	2024-12-30T20:10:01
crgaosuhsasS2.b1	D250403.1	Incorrect	Incorrect Data	2025-03-27T00:00:00	2025-03-29T23:59:59
crgaosuhsasS2.b1	D250313.1	Suspect	Artifacts in the UHSAS data above ~550 nm	2024-12-01T00:00:00	2025-12-01T00:00:00
crgceilS2.b1	D250307.7	Missing	No Data	2025-01-13T23:59:52	2025-01-15T00:00:03
crgecorsfS2.b1	D250408.4	Missing	Missing Data	2025-04-06T14:30:00	2025-04-07T19:29:59
crgmetwxtS2.b1	D250310.3	Incorrect	Incorrect Precipitation Rate Data	2024-12-01T00:00:00	2025-02-25T19:47:59
crgmetwxtS2.b1	D250328.24	Incorrect	Incorrect Cumulative Precipitation Data	2024-12-01T00:00:00	2025-03-21T18:35:00
crgmfrsr7nchS2.b1	D250218.4	Incorrect	Incorrect Data	2025-01-22T14:21:00	2025-02-14T16:07:00
crgmfrsr7nchS2.b1	D250210.6	Incorrect	Incorrect Data	2024-12-30T12:16:00	2025-01-18T06:21:40
crgsebsS2.b1	D250609.7	Suspect	Suspect Data	2025-05-20T05:30:00	2025-06-04T14:30:00
crgsebsS2.b1	D241216.1	Incorrect	Incorrect Data	2024-12-01T00:00:00	2024-12-06T19:00:00

## ARM Data Object Identifier (DOI) Table

Instrument	DOI
ACSM	Zawadowicz, M., Watson, T., Hayes, C., Allain, M., Salwen, C., & Behrens, B. Aerosol Chemical Speciation Monitor (AOSACSM), 2024-11-01 to 2025-11-30, ARM Mobile Facility (CRG), Baltimore, MD; Supplemental Facility 2 in rural setting (S2). Atmospheric Radiation Measurement (ARM) User Facility. <a href="https://doi.org/10.5439/1558768">https://doi.org/10.5439/1558768</a>
AETH	Sedlacek, A., Salwen, C., Andrews, E., & Hayes, C. Aethalometer (AOSAETH2SPOT), 2024-11-01 to 2025-11-30, ARM Mobile Facility (CRG), Baltimore, MD; Supplemental Facility 2 in rural setting (S2). Atmospheric Radiation Measurement (ARM) User Facility. <a href="https://doi.org/10.5439/1211529">https://doi.org/10.5439/1211529</a>
AOSMET	Kyroutac, J., & Tuftedal, M. Meteorological Measurements associated with the Aerosol Observing System (AOSMET), 2024-11-01 to 2025-11-30, ARM Mobile Facility (CRG), Baltimore, MD; Supplemental Facility 2 in rural setting (S2). 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), 2024-11-01 to 2025-11-30, ARM Mobile Facility (CRG), Baltimore, MD; Supplemental Facility 2 in rural setting (S2). Atmospheric Radiation Measurement (ARM) User Facility. <a href="https://doi.org/10.5439/1407135">https://doi.org/10.5439/1407135</a>
CCN	Koontz, A., Senum, G., Andrews, E., Uin, J., Enekwizu, O., Hayes, C., & Salwen, C. Cloud Condensation Nuclei Particle Counter (AOSCCN200), 2024-11-01 to 2025-11-30, ARM Mobile Facility (CRG), Baltimore, MD; Supplemental Facility 2 in rural setting (S2). Atmospheric Radiation Measurement (ARM) User Facility. <a href="https://doi.org/10.5439/1223287">https://doi.org/10.5439/1223287</a>
CO-ANALYZER	Koontz, A., Springston, S., & Trojanowski, R. Carbon Monoxide Analyzer (AOSCO), 2024-11-01 to 2025-11-30, ARM Mobile Facility (CRG), Baltimore, MD; Supplemental Facility 2 in rural setting (S2). 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 (AOSCPF1M), 2024-11-01 to 2025-11-30, ARM Mobile Facility (CRG), Baltimore, MD; Supplemental Facility 2 in rural setting (S2). 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), 2024-11-01 to 2025-11-30, ARM Mobile Facility (CRG), Baltimore, MD; Supplemental Facility 2 in rural setting (S2). 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), 2024-11-01 to 2025-11-30, ARM Mobile Facility (CRG), Baltimore, MD; Supplemental Facility 2 in rural setting (S2). 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), 2024-11-01 to 2025-11-30, ARM Mobile Facility (CRG), Baltimore, MD; Supplemental Facility 2 in rural setting (S2). 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), 2024-11-01 to 2025-11-30, ARM Mobile Facility (CRG), Baltimore, MD; Supplemental Facility 2 in rural setting (S2). 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 (AOSSMPS), 2024-11-01 to 2025-11-30, ARM Mobile Facility (CRG), Baltimore, MD; Supplemental Facility 2 in rural setting (S2). Atmospheric Radiation Measurement (ARM) User Facility. <a href="https://doi.org/10.5439/1476898">https://doi.org/10.5439/1476898</a>
SO2	Trojanowski, R. Sulfur Dioxide Monitor (AOSSO2), 2024-11-01 to 2025-11-30, ARM Mobile Facility (CRG), Baltimore, MD; Supplemental Facility 2 in rural setting (S2). Atmospheric Radiation Measurement (ARM) User Facility. <a href="https://doi.org/10.5439/1250820">https://doi.org/10.5439/1250820</a>
UHSAS	Uin, J., Senum, G., Koontz, A., Flynn, C., Salwen, C., & Hayes, C. Ultra-High Sensitivity Aerosol Spectrometer (AOSUHSAS), 2024-11-01 to 2025-11-30, ARM Mobile Facility (CRG), Baltimore, MD; Supplemental Facility 2 in rural setting (S2). Atmospheric Radiation Measurement (ARM) User Facility. <a href="https://doi.org/10.5439/1409033">https://doi.org/10.5439/1409033</a>
CEIL	Zhang, D., Morris, V., & Ermold, B. Ceilometer (CEIL10M), 2024-11-01 to 2025-11-30, ARM Mobile Facility (CRG), Baltimore, MD; AMF1 (main site for CoURAGE) (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 (DLCAL2), 2024-11-01 to 2025-11-30, ARM Mobile Facility (CRG), Baltimore, MD; AMF1 (main site for CoURAGE) (M1). Atmospheric Radiation Measurement (ARM) User Facility. <a href="https://doi.org/10.5439/1025184">https://doi.org/10.5439/1025184</a>
ECOR	Sullivan, R., Cook, D., Shi, Y., Keeler, E., & Pal, S. Eddy Correlation Flux Measurement System (ECORSF), 2024-11-01 to 2025-11-30, ARM Mobile Facility (CRG), Baltimore, MD; Supplemental Facility 2 in rural setting (S2). Atmospheric Radiation Measurement (ARM) User Facility. <a href="https://doi.org/10.5439/1494128">https://doi.org/10.5439/1494128</a>

## ARM Data Object Identifier (DOI) Table

Instrument	DOI
LDIS	Zhu, Z., & Shi, Y. Laser Disdrometer (LD), 2024-11-01 to 2025-11-30, ARM Mobile Facility (CRG), Baltimore, MD; AMF1 (main site for CoURAGE) (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), 2024-11-01 to 2025-11-30, ARM Mobile Facility (CRG), Baltimore, MD; AMF1 (main site for CoURAGE) (M1). Atmospheric Radiation Measurement (ARM) User Facility. <a href="https://doi.org/10.5439/1162061">https://doi.org/10.5439/1162061</a>
METWXT	Kyrouac, J., & Shi, Y. WXT520/530 Meteorological Instrument System (METWXT), 2024-11-01 to 2025-11-30, ARM Mobile Facility (CRG), Baltimore, MD; AMF1 (main site for CoURAGE) (M1). Atmospheric Radiation Measurement (ARM) User Facility. <a href="https://doi.org/10.5439/1455447">https://doi.org/10.5439/1455447</a>
MFRSR	Hodges, G., Herrera, C., & Ermold, B. Multifilter Rotating Shadowband Radiometer (MFRSR7NCH), 2024-11-01 to 2025-11-30, ARM Mobile Facility (CRG), Baltimore, MD; AMF1 (main site for CoURAGE) (M1). Atmospheric Radiation Measurement (ARM) User Facility. <a href="https://doi.org/10.5439/1429369">https://doi.org/10.5439/1429369</a>
MWR3C	Cadeddu, M., Gibler, G., Koontz, A., & Tuftedal, M. Microwave Radiometer, 3 Channel (MWR3C), 2024-11-01 to 2025-11-30, ARM Mobile Facility (CRG), Baltimore, MD; AMF1 (main site for CoURAGE) (M1). Atmospheric Radiation Measurement (ARM) User Facility. <a href="https://doi.org/10.5439/1025248">https://doi.org/10.5439/1025248</a>
POPS	Petters, S., & Petters, M. portable or printed optical particle spectrometer (POPS), 2024-11-01 to 2025-11-30, ARM Mobile Facility (CRG), Baltimore, MD; AMF1 (main site for CoURAGE) (M1). Atmospheric Radiation Measurement (ARM) User Facility.
SEBS	Sullivan, R., Keeler, E., Pal, S., & Kyrouac, J. Surface Energy Balance System (SEBS), 2024-11-01 to 2025-11-30, ARM Mobile Facility (CRG), Baltimore, MD; Supplemental Facility 2 in rural setting (S2). Atmospheric Radiation Measurement (ARM) User Facility. <a href="https://doi.org/10.5439/1984921">https://doi.org/10.5439/1984921</a>
SIRS	Sengupta, M., Xie, Y., Jaker, S., Yang, J., Reda, I., Andreas, A., Habte, A., & Shi, Y. Solar and Infrared Radiation Station for Downwelling and Upwelling Radiation (SIRS), 2024-11-01 to 2025-11-30, ARM Mobile Facility (CRG), Baltimore, MD; AMF1 (main site for CoURAGE) (M1). Atmospheric Radiation Measurement (ARM) User Facility. <a href="https://doi.org/10.5439/1475460">https://doi.org/10.5439/1475460</a>