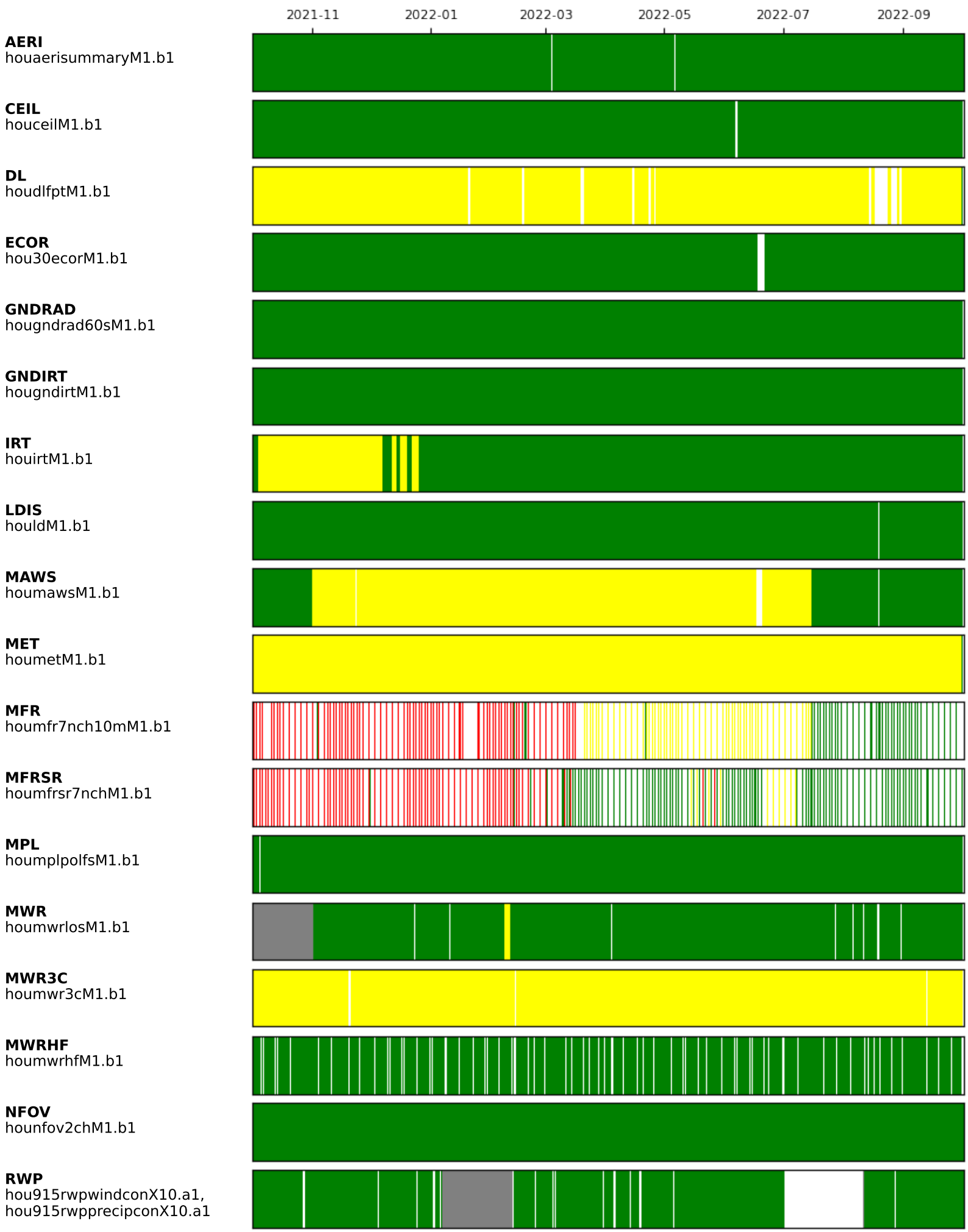
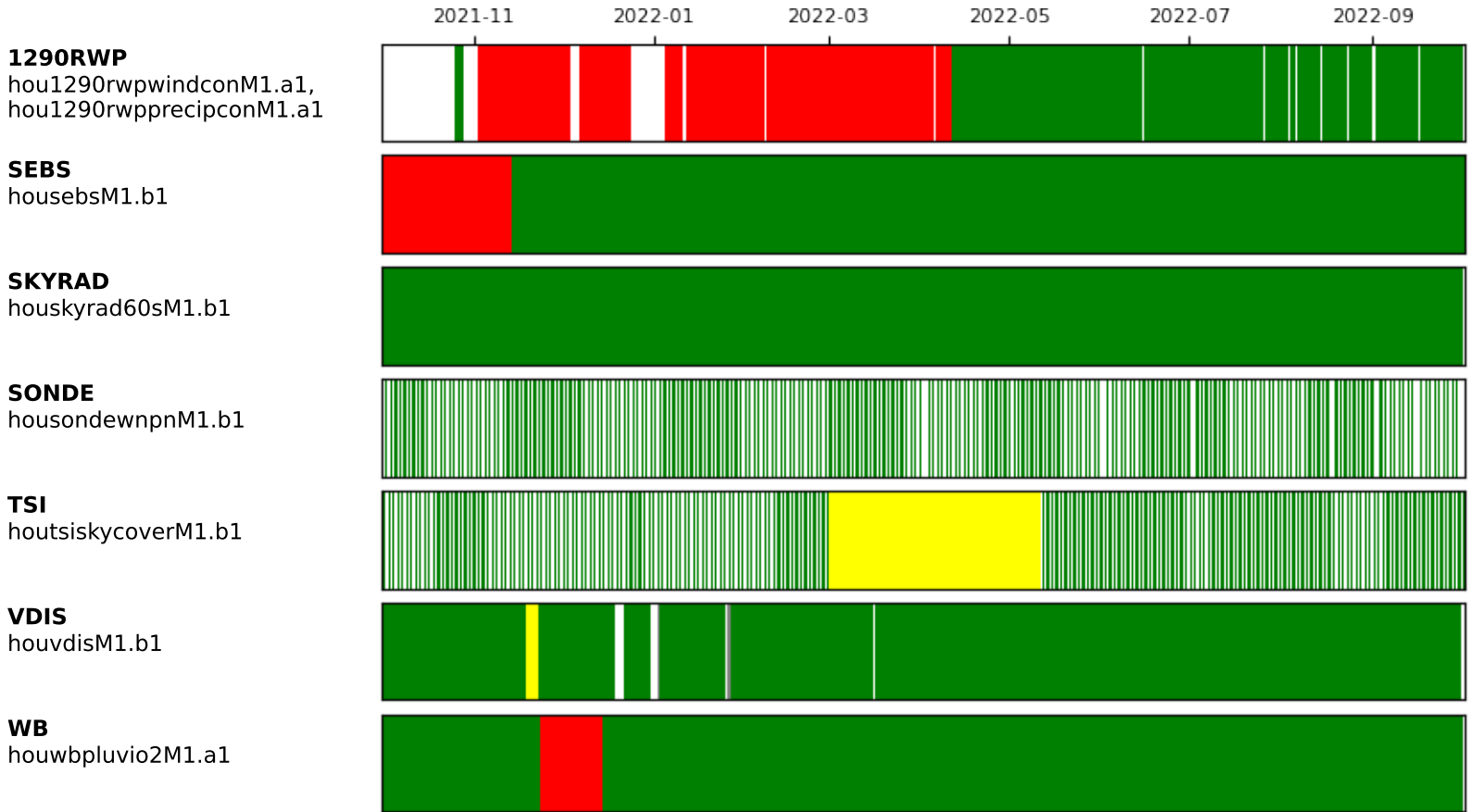


Houston, TX; AMF1 (main site for TRACER)
Atmospheric Radiation Measurement User Facility





ARM Data Quality Report (DQR) Table

Datastream	DQR	Quality	Subject	Start Date	End Date
houdlfptM1.b1	D220722.3	Missing	Missing Data	2022-03-19T03:28:00	2022-03-20T18:13:59
houdlfptM1.b1	D220909.4	Missing	No Data	2022-08-17T07:00:00	2022-08-29T16:14:59
houdlfptM1.b1	D220729.12	Missing	No Data	2022-03-19T03:28:00	2022-03-20T18:13:59
houdlfptM1.b1	D210917.6	Suspect	Incorrect Wind Directions from DL	2020-08-01T00:00:00	2022-10-01T00:00:00
hou30ecorM1.b1	D220715.6	Missing	Missing Data	2022-06-17T17:00:00	2022-06-21T14:00:00
hougndirtM1.b1	D220131.1	Incorrect	Incorrect Measurements during Tower Maintenance	2022-01-25T15:00:00	2022-01-25T18:00:00
houirtM1.b1	D220119.2	Suspect	Sky Temperature Bias	2021-12-12T00:00:00	2021-12-13T23:59:59
houmawsM1.b1	D220621.1	Missing	Missing Data	2022-06-17T10:55:00	2022-06-20T16:11:59
houmawsM1.b1	D220609.1	Suspect	Moist Bias at High Humidity	2021-11-01T00:00:00	2022-07-15T22:00:00
houmetM1.b1	D220211.7	Incorrect	Incorrect Precipitation Rates Over 10 mm/hr from Present Weather Detector	2021-08-15T23:18:00	2021-08-15T23:21:00
houmetM1.b1	D220211.11	Incorrect	Tower Lowered	2022-01-25T15:10:00	2022-01-25T20:59:35
houmetM1.b1	D220310.1	Incorrect	Optical Rain Gauge Data Incorrect	2022-02-12T14:56:00	2022-02-12T14:56:00
houmetM1.b1	D220215.3	Incorrect	Present Weather Detector Data Drops	2021-09-18T12:12:00	2021-09-18T12:13:00
houmetM1.b1	D220720.7	Incorrect	Tipping Bucket Blocked	2022-06-30T00:00:00	2022-07-03T23:59:59
houmetM1.b1	D211103.2	Incorrect	Tower Lowered for Maintenance	2021-11-03T14:15:00	2021-11-03T15:46:00
houmetM1.b1	D220315.3	Incorrect	Incorrect Present Weather Data	2022-02-12T23:06:00	2022-02-12T23:06:00
houmetM1.b1	D220211.9	Incorrect	Tipping Bucket Rain Gauge Not Calibrated	2021-08-06T19:26:00	2021-09-30T20:00:00
houmetM1.b1	D220606.9	Suspect	Overnight RH had Moist Bias	2022-03-20T00:00:00	2022-06-02T18:00:00
houmetM1.b1	D221021.10	Suspect	Condensation on Optical Rain Gauge	2022-09-03T00:00:00	2022-09-28T23:59:59
houmetM1.b1	D210917.6	Suspect	Incorrect Wind Directions from DL	2020-08-01T00:00:00	2022-10-01T00:00:00
houmetM1.b1	D220211.8	Missing	Atmospheric Pressure Data Missing	2021-09-18T12:02:00	2021-09-18T16:48:00
houmfr7nch10mM1.b1	D220420.7	Incorrect	Incorrect Data - Damaged Head	2022-01-26T00:00:00	2022-03-18T14:35:19
houmfr7nch10mM1.b1	D220420.6	Incorrect	Incorrect Data - Damaged Instrument	2022-01-15T18:45:00	2022-01-26T00:00:00
houmfr7nch10mM1.b1	D220420.5	Incorrect	Incorrect Data - Backwards Connector	2021-08-16T14:41:40	2022-01-15T18:44:59
houmfr7nch10mM1.b1	D220726.5	Incorrect	Incorrect Data - Irradiance Data Reading Zero	2022-07-01T18:00:00	2022-07-15T21:30:00
houmfr7nch10mM1.b1	D220420.8	Missing	Missing Data - Head Swap	2022-03-18T14:35:20	2022-03-20T03:59:59
houmfr7nch10mM1.b1	D220726.4	Suspect	Questionable Data - Nighttime Values Over-Ranging	2022-03-18T14:35:00	2022-07-15T21:30:00
houmfrsr7nchM1.b1	D220329.2	Incorrect	Shading Problem - Shadowband Misalignment	2022-03-14T16:00:00	2022-03-14T20:00:00
houmfrsr7nchM1.b1	D220714.1	Incorrect	Shading Problem - Shadowband Misalignment	2022-05-27T00:00:00	2022-05-27T01:00:00
houmfrsr7nchM1.b1	D211123.10	Incorrect	Shading Problem - Shadowband Misalignment	2021-11-01T18:00:00	2021-11-01T21:00:00

ARM Data Quality Report (DQR) Table

Datastream	DQR	Quality	Subject	Start Date	End Date
houmfrsr7nchM1.b1	D220317.4	Incorrect	Incorrect Data - Bad Signal Cable	2021-08-03T13:11:00	2022-03-10T16:32:00
houmfrsr7nchM1.b1	D220913.4	Suspect	Malfunctioning Heater Board	2022-06-22T09:49:20	2022-07-07T19:29:00
houmwrlosM1.b1	D211203.3	Suspect	Suspected Poorly Calibrated Data	2021-10-01T00:00:00	2021-10-11T15:15:00
houmwrlosM1.b1	D220406.4	Suspect	Interference affecting the Data	2022-02-08T00:00:00	2022-02-10T23:59:59
houmwrlosM1.b1	D210927.1	Missing	Missing Surface Temperature	2021-09-12T20:00:00	2021-11-01T18:00:00
houmwr3cM1.b1	D211206.4	Incorrect	Condensation on Radiometer	2021-10-21T08:00:00	2021-10-21T15:00:00
houmwr3cM1.b1	D220613.1	Missing	Missing Data	2022-04-28T00:00:00	2022-04-28T23:59:59
houmwr3cM1.b1	D220112.6	Suspect	Inaccurate Tip Calibration	2021-10-01T00:00:00	2022-10-01T06:00:00
hou915rwpwindconX10.	D220211.5	Missing	Data Missing due to Instrument Computer Failure	2021-09-14T10:00:00	2021-09-29T23:59:59
hou915rwpwindconX10.	D220829.15	Missing	No Data	2022-07-01T18:21:22	2022-08-11T18:55:53
hou915rwpwindconX10.	D220214.1	Missing	No Data due to Instrument Issues	2022-01-06T20:50:00	2022-02-12T18:13:18
hou1290rwpwindconM1	D220609.4	Incorrect	Incorrect Wind Data	2021-11-02T00:00:00	2022-04-11T21:00:00
housebsM1.b1	D211115.1	Incorrect	Incorrect Data	2021-08-04T15:00:00	2021-11-13T17:30:00
housebsM1.b1	D211012.1	Incorrect	Incorrect Data	2021-09-14T19:00:00	2021-10-05T15:30:00
houtsiskycoverM1.b1	D220517.1	Suspect	Incorrect Shadow Banding	2022-03-01T00:00:00	2022-05-12T00:00:00
houvdisM1.b1	D220209.22	Missing	No Data	2021-12-31T00:00:00	2022-01-03T00:00:00
houvdisM1.b1	D211122.4	Suspect	Questionable Data	2021-11-19T00:24:53	2021-11-22T16:17:44
houwbpluvio2M1.a1	D211216.1	Incorrect	Incorrect Data	2021-11-23T18:12:00	2021-12-14T20:00:00

ARM Data Object Identifier (DOI) Table

Instrument	DOI
AERI	Gero, J., Garcia, R., Hackel, D., Ermold, B., & Gaustad, K. Atmospheric Emitted Radiance Interferometer (AERICH1), 2021-10-01 to 2022-10-01, ARM Mobile Facility (HOU), Houston, TX; AMF1 (main site for TRACER) (M1). Atmospheric Radiation Measurement (ARM) User Facility. https://doi.org/10.5439/1989299
CEIL	Zhang, D., Morris, V., & Ermold, B. Ceilometer (CEIL10M), 2021-10-01 to 2022-10-01, ARM Mobile Facility (HOU), Houston, TX; AMF1 (main site for TRACER) (M1). Atmospheric Radiation Measurement (ARM) User Facility. https://doi.org/10.5439/1497398
DL	Newsom, R., Shi, Y., & Krishnamurthy, R. Doppler Lidar (DLCAL2), 2021-10-01 to 2022-10-01, ARM Mobile Facility (HOU), Houston, TX; AMF1 (main site for TRACER) (M1). Atmospheric Radiation Measurement (ARM) User Facility. https://doi.org/10.5439/1025184
ECOR	Sullivan, R., Billesbach, D., Keeler, E., Ermold, B., & Pal, S. Eddy Correlation Flux Measurement System (30ECOR), 2021-10-01 to 2022-10-01, ARM Mobile Facility (HOU), Houston, TX; AMF1 (main site for TRACER) (M1). Atmospheric Radiation Measurement (ARM) User Facility. https://doi.org/10.5439/1025039
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), 2021-10-01 to 2022-10-01, ARM Mobile Facility (HOU), Houston, TX; AMF1 (main site for TRACER) (M1). Atmospheric Radiation Measurement (ARM) User Facility. https://doi.org/10.5439/1377837
GNDIRT	N/A
IRT	Shi, Y., Howie, J., Goldberger, L., & Morris, V. Infrared Thermometer (GNDIRT), 2021-10-01 to 2022-10-01, ARM Mobile Facility (HOU), Houston, TX; AMF1 (main site for TRACER) (M1). Atmospheric Radiation Measurement (ARM) User Facility. https://doi.org/10.5439/1366509
LDIS	Zhu, Z., Wang, D., & Shi, Y. Laser Disdrometer (LD), 2021-10-01 to 2022-10-01, ARM Mobile Facility (HOU), Houston, TX; AMF1 (main site for TRACER) (M1). Atmospheric Radiation Measurement (ARM) User Facility. https://doi.org/10.5439/1973058
MAWS	Keeler, E., Kyrouac, J., & Ermold, B. Automatic Weather Station (MAWS), 2021-10-01 to 2022-10-01, ARM Mobile Facility (HOU), Houston, TX; AMF1 (main site for TRACER) (M1). Atmospheric Radiation Measurement (ARM) User Facility. https://doi.org/10.5439/1162061
MET	Kyrouac, J., Shi, Y., & Tuftedal, M. Surface Meteorological Instrumentation (MET), 2021-10-01 to 2022-10-01, ARM Mobile Facility (HOU), Houston, TX; AMF1 (main site for TRACER) (M1). Atmospheric Radiation Measurement (ARM) User Facility. https://doi.org/10.5439/1786358
MFR	Hodges, G., Herrera, C., & Ermold, B. Multifilter Radiometer (MFR7NCH10M), 2021-10-01 to 2022-10-01, ARM Mobile Facility (HOU), Houston, TX; AMF1 (main site for TRACER) (M1). Atmospheric Radiation Measurement (ARM) User Facility. https://doi.org/10.5439/1773175
MFRSR	Hodges, G., Herrera, C., & Ermold, B. Multifilter Rotating Shadowband Radiometer (MFRSR7NCH), 2021-10-01 to 2022-10-01, ARM Mobile Facility (HOU), Houston, TX; AMF1 (main site for TRACER) (M1). Atmospheric Radiation Measurement (ARM) User Facility. https://doi.org/10.5439/1429369
MPL	Muradyan, P., Cromwell, E., Koontz, A., Coulter, R., Flynn, C., Ermold, B., & OBrien, J. Micropulse Lidar (MPLPOLFS), 2021-10-01 to 2022-10-01, ARM Mobile Facility (HOU), Houston, TX; AMF1 (main site for TRACER) (M1). Atmospheric Radiation Measurement (ARM) User Facility. https://doi.org/10.5439/1320657
MWR	Cadeddu, M., & Tuftedal, M. Microwave Radiometer (MWRLOS), 2021-10-01 to 2022-10-01, ARM Mobile Facility (HOU), Houston, TX; AMF1 (main site for TRACER) (M1). Atmospheric Radiation Measurement (ARM) User Facility. https://doi.org/10.5439/1999490
MWR3C	Cadeddu, M., Gibler, G., Koontz, A., & Tuftedal, M. Microwave Radiometer, 3 Channel (MWR3C), 2021-10-01 to 2022-10-01, ARM Mobile Facility (HOU), Houston, TX; AMF1 (main site for TRACER) (M1). Atmospheric Radiation Measurement (ARM) User Facility. https://doi.org/10.5439/1025248
MWRHF	Cadeddu, M., & Tuftedal, M. Microwave Radiometer - High Frequency (MWRHF), 2021-10-01 to 2022-10-01, ARM Mobile Facility (HOU), Houston, TX; AMF1 (main site for TRACER) (M1). Atmospheric Radiation Measurement (ARM) User Facility. https://doi.org/10.5439/1986428
NFOV	Hodges, G., Herrera, C., & Koontz, A. Narrow Field of View Zenith Radiometer (NFOV2CH), 2021-10-01 to 2022-10-01, ARM Mobile Facility (HOU), Houston, TX; AMF1 (main site for TRACER) (M1). Atmospheric Radiation Measurement (ARM) User Facility. https://doi.org/10.5439/1344560

ARM Data Object Identifier (DOI) Table

Instrument	DOI
RWP	Muradyan, P. Radar Wind Profiler (1290RWPPRECIPCON), 2021-10-01 to 2022-10-01, ARM Mobile Facility (HOU), Houston, TX; AMF1 (main site for TRACER) (M1). Atmospheric Radiation Measurement (ARM) User Facility. https://doi.org/10.5439/1972920
1290RWP	N/A
SEBS	Sullivan, R., Keeler, E., Pal, S., & Kyrouac, J. Surface Energy Balance System (SEBS), 2021-10-01 to 2022-10-01, ARM Mobile Facility (HOU), Houston, TX; AMF1 (main site for TRACER) (M1). 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), 2021-10-01 to 2022-10-01, ARM Mobile Facility (HOU), Houston, TX; AMF1 (main site for TRACER) (M1). Atmospheric Radiation Measurement (ARM) User Facility. https://doi.org/10.5439/1377836
SONDE	Keeler, E., Burk, K., & Kyrouac, J. Balloon-Borne Sounding System (SONDEWNP), 2021-10-01 to 2022-10-01, ARM Mobile Facility (HOU), Houston, TX; AMF1 (main site for TRACER) (M1). Atmospheric Radiation Measurement (ARM) User Facility. https://doi.org/10.5439/1595321
TSI	Flynn, D., & Morris, V. Total Sky Imager (TSISKYCOVER), 2021-10-01 to 2022-10-01, ARM Mobile Facility (HOU), Houston, TX; AMF1 (main site for TRACER) (M1). Atmospheric Radiation Measurement (ARM) User Facility. https://doi.org/10.5439/1992207
VDIS	Zhu, Z., & Wang, D. Video Disdrometer (VDIS), 2021-10-01 to 2022-10-01, ARM Mobile Facility (HOU), Houston, TX; AMF1 (main site for TRACER) (M1). Atmospheric Radiation Measurement (ARM) User Facility. https://doi.org/10.5439/1992988
WB	Zhu, Z., Wang, D., Jane, M., Cromwell, E., Sturm, M., Irving, K., & Delamere, J. Weighing Bucket Precipitation Gauge (WBPLUVIO2), 2021-10-01 to 2022-10-01, ARM Mobile Facility (HOU), Houston, TX; AMF1 (main site for TRACER) (M1). Atmospheric Radiation Measurement (ARM) User Facility. https://doi.org/10.5439/1338194