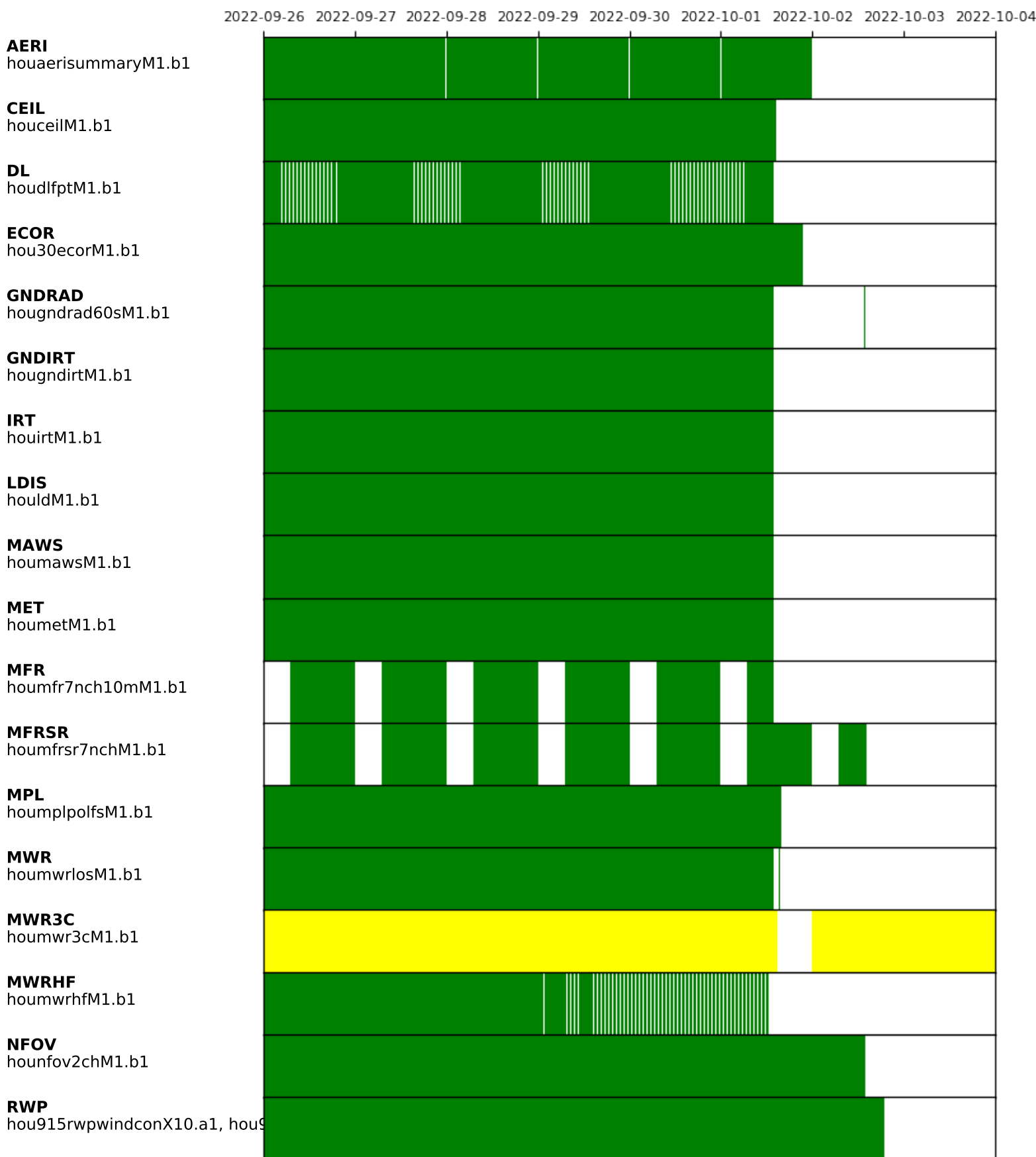
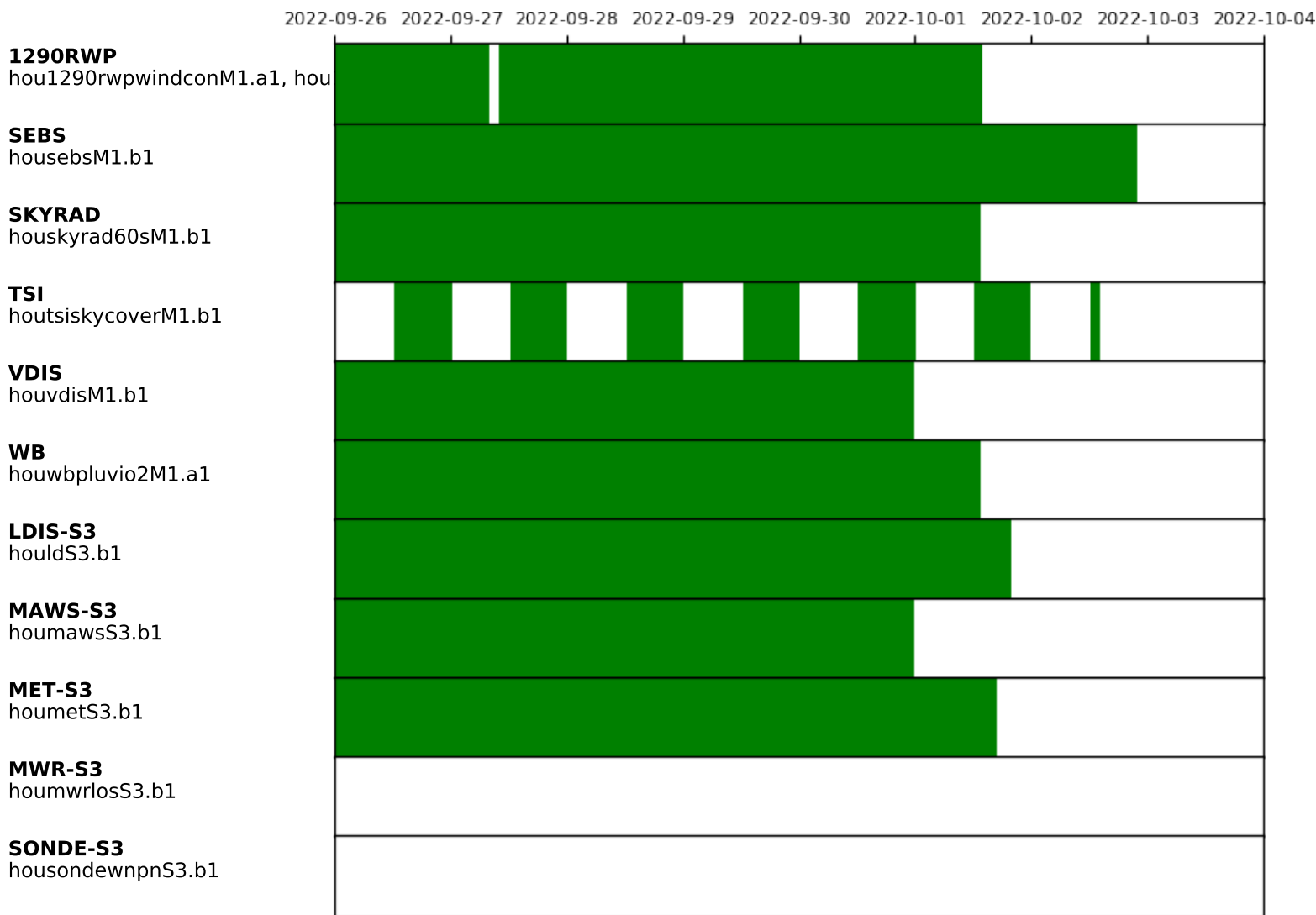


Houston, TX; AMF1 (main site for TRACER)

Atmospheric Radiation Measurement User Facility





ARM Data Quality Report (DQR) Table

Datastream	DQR	Quality	Subject	Start Date	End Date
houdlfptM1.b1	D220909.4	missing	No Data	20220817.070001	20220824.211759
houdlfptM1.b1	D220729.12	missing	No Data	20220319.032801	20220320.181359
houdlfptM1.b1	D220722.3	missing	Missing Data	20220319.032801	20220320.181359
hou30ecorM1.b1	D220715.6	missing	Missing Data	20220617.170001	20220621.140000
hougndirtM1.b1	D220131.1	incorrect	Incorrect Measurements during Tower Maintenance	20220125.150000	20220125.180000
houmawsM1.b1	D220621.1	missing	Missing Data	20220617.105501	20220620.161159
houmawsM1.b1	D220609.1	suspect	Moist Bias at High Humidity	20211101.000000	20220715.220000
houmetM1.b1	D220211.11	incorrect	Tower Lowered	20220125.151000	20220125.205935
houmetM1.b1	D220211.8	missing	Atmospheric Pressure Data Missing	20210918.120200	20210918.164800
houmetM1.b1	D220310.1	incorrect	Optical Rain Gauge Data Incorrect	20220212.195600	20220212.230600
houmetM1.b1	D220315.3	incorrect	Incorrect Present Weather Data	20220212.230600	20220212.230600
houmetM1.b1	D220215.3	incorrect	Present Weather Detector Data Drops	20210918.161700	20210918.161800
houmetM1.b1	D220211.7	incorrect	Incorrect Precipitation Rates Over 10 mm/hr from Present Weather Detector	20210912.204100	20210912.204600
houmetM1.b1	D220606.9	suspect	Overnight RH had Moist Bias	20220320.000000	20220602.180000
houmetM1.b1	D211103.2	incorrect	Tower Lowered for Maintenance	20211103.141500	20211103.154600
houmetM1.b1	D220720.7	incorrect	Tipping Bucket Blocked	20220630.000000	20220703.235959
houmetM1.b1	D220211.9	incorrect	Tipping Bucket Rain Gauge Not Calibrated	20210806.192600	20210930.200000
houmfr7nch10mM1.b1	D220420.8	missing	Missing Data - Head Swap	20220318.143520	20220320.035959
houmfr7nch10mM1.b1	D220420.6	incorrect	Incorrect Data - Damaged Instrument	20220115.184500	20220126.000000
houmfr7nch10mM1.b1	D220420.5	incorrect	Incorrect Data - Backwards Connector	20210816.144140	20220115.184459
houmfr7nch10mM1.b1	D220726.5	incorrect	Incorrect Data - Irradiance Data Reading Zero	20220701.180000	20220715.213000
houmfr7nch10mM1.b1	D220726.4	suspect	Questionable Data - Nighttime Values Over-Ranging	20220318.143500	20220715.213000
houmfr7nch10mM1.b1	D220420.7	incorrect	Incorrect Data - Damaged Head	20220126.000001	20220318.143519
houmfrsr7nchM1.b1	D220714.1	incorrect	Shading Problem - Shadowband Misalignment	20220603.000000	20220603.010000
houmfrsr7nchM1.b1	D220329.2	incorrect	Shading Problem - Shadowband Misalignment	20220314.160000	20220314.200000
houmfrsr7nchM1.b1	D211123.10	incorrect	Shading Problem - Shadowband Misalignment	20211101.180000	20211101.210000
houmfrsr7nchM1.b1	D220317.4	incorrect	Incorrect Data - Bad Signal Cable	20210803.131100	20220310.163200
houmwrlosM1.b1	D220406.4	suspect	Interference affecting the Data	20220208.000000	20220210.235959
houmwrlosM1.b1	D211203.3	suspect	Suspected Poorly Calibrated Data	20211001.000000	20211011.151500
houmwrlosM1.b1	D210927.1	missing	Missing Surface Temperature	20210912.200000	20211101.180000

ARM Data Quality Report (DQR) Table

Datastream	DQR	Quality	Subject	Start Date	End Date
houmwr3cM1.b1	D220613.1	missing	Missing Data	20220428.000000	20220428.235959
houmwr3cM1.b1	D220112.6	suspect	Inaccurate Tip Calibration	20211001.000000	30010101.000000
houmwr3cM1.b1	D211206.4	incorrect	Condensation on Radiometer	20211205.080000	20211205.120000
hou915rwpwindconX10.	D220829.15	missing	No Data	20220701.182122	20220811.185553
hou915rwpwindconX10.	D220214.1	missing	No Data due to Instrument Issues	20220106.205000	20220212.181318
hou915rwpwindconX10.	D220211.5	missing	Data Missing due to Instrument Computer Failure	20210914.100000	20210929.235959
hou1290rwpwindconM1	D220609.4	incorrect	Incorrect Wind Data	20211102.000000	20220411.210000
housebsM1.b1	D211012.1	incorrect	Incorrect Data	20210914.190000	20211005.153000
housebsM1.b1	D211115.1	incorrect	Incorrect Data	20210804.150000	20211113.173000
houtsiskycoverM1.b1	D220517.1	suspect	Incorrect Shadow Banding	20220301.000000	20220512.000000
houvdisM1.b1	D220209.22	missing	No Data	20220125.000000	20220127.000000
houvdisM1.b1	D211122.4	suspect	Questionable Data	20211119.002453	20211122.161744
houwbpluvio2M1.a1	D211216.1	incorrect	Incorrect Data	20211123.181200	20211214.200000
houmwrlosS3.b1	D220630.2	missing	Missing Data	20220626.180059	20220723.131300

ARM Data Object Identifier (DOI) Table

Instrument	DOI
AERI	Gero, J., Garcia, R., Hackel, D., Ermold, B., & Gaustad, K. Atmospheric Emitted Radiance Interferometer (AERICH1). Atmospheric Radiation Measurement (ARM) User Facility. https://doi.org/10.5439/1025143
CEIL	Morris, V., & Ermold, B. Ceilometer (CEIL10M). Atmospheric Radiation Measurement (ARM) User Facility. https://doi.org/10.5439/1497398
DL	Newsom, R., & Krishnamurthy, R. Doppler Lidar (DLCAL2). Atmospheric Radiation Measurement (ARM) User Facility. https://doi.org/10.5439/1025184
ECOR	Sullivan, R., Billesbach, D., Keeler, E., & Ermold, B. Eddy Correlation Flux Measurement System (30ECOR). Atmospheric Radiation Measurement (ARM) User Facility. https://doi.org/10.5439/1025039
GNDRAD	Shi, Y. Ground Radiometers on Stand for Upwelling Radiation (GNDRAD60S). Atmospheric Radiation Measurement (ARM) User Facility. https://doi.org/10.5439/1377837
GNDIRT	N/A
IRT	Shi, Y. Infrared Thermometer (GNDIRT). Atmospheric Radiation Measurement (ARM) User Facility. https://doi.org/10.5439/1366509
LDIS	Wang, D., & Shi, Y. Laser Disdrometer (LD). Atmospheric Radiation Measurement (ARM) User Facility. https://doi.org/10.5439/1779709
MAWS	Keeler, E., Kyrouac, J., & Ermold, B. Automatic Weather Station (MAWS). Atmospheric Radiation Measurement (ARM) User Facility. https://doi.org/10.5439/1162061
MET	Kyrouac, J., & Shi, Y. Surface Meteorological Instrumentation (MET). Atmospheric Radiation Measurement (ARM) User Facility. https://doi.org/10.5439/1786358
MFR	Hodges, G., Herrera, C., & Ermold, B. Multifilter Radiometer (MFR7NCH10M). Atmospheric Radiation Measurement (ARM) User Facility. https://doi.org/10.5439/1773175
MFRSR	Hodges, G., & Ermold, B. Multifilter Rotating Shadowband Radiometer (MFRSR7NCH). Atmospheric Radiation Measurement (ARM) User Facility. https://doi.org/10.5439/1429369
MPL	Muradyan, P., Cromwell, E., Koontz, A., & Coulter, R. Micropulse Lidar (MPLPOLFS). Atmospheric Radiation Measurement (ARM) User Facility. https://doi.org/10.5439/1320657
MWR	Cadeddu, M., & Tuftedal, M. Microwave Radiometer (MWRLOS). Atmospheric Radiation Measurement (ARM) User Facility. https://doi.org/10.5439/1046211
MWR3C	Cadeddu, M., Gibler, G., & Koontz, A. Microwave Radiometer, 3 Channel (MWR3C). Atmospheric Radiation Measurement (ARM) User Facility. https://doi.org/10.5439/1025248
MWRHF	Cadeddu, M., & Tuftedal, M. Microwave Radiometer - High Frequency (MWRHF). Atmospheric Radiation Measurement (ARM) User Facility. https://doi.org/10.5439/1025250
NFOV	Koontz, A., & Hodges, G. Narrow Field of View Zenith Radiometer (NFOV2CH). 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). Atmospheric Radiation Measurement (ARM) User Facility. https://doi.org/10.5439/1482572
1290RWP	N/A
SEBS	Sullivan, R., & Keeler, E. Surface Energy Balance System (SEBS). Atmospheric Radiation Measurement (ARM) User Facility. https://doi.org/10.5439/1025274
SKYRAD	Shi, Y. Sky Radiometers on Stand for Downwelling Radiation (SKYRAD60S). Atmospheric Radiation Measurement (ARM) User Facility. https://doi.org/10.5439/1377836
TSI	Flynn, D., & Morris, V. Total Sky Imager (TSISKYCOVER). Atmospheric Radiation Measurement (ARM) User Facility. https://doi.org/10.5439/1025308
VDIS	Wang, D. Video Disdrometer (VDIS). Atmospheric Radiation Measurement (ARM) User Facility. https://doi.org/10.5439/1025315
WB	Cromwell, E., & Bartholomew, M. Weighing Bucket Precipitation Gauge (WBPLUVIO2). Atmospheric Radiation Measurement (ARM) User Facility. https://doi.org/10.5439/1338194
LDIS-S3	N/A
MAWS-S3	N/A
MET-S3	N/A
MWR-S3	N/A
SONDE-S3	N/A