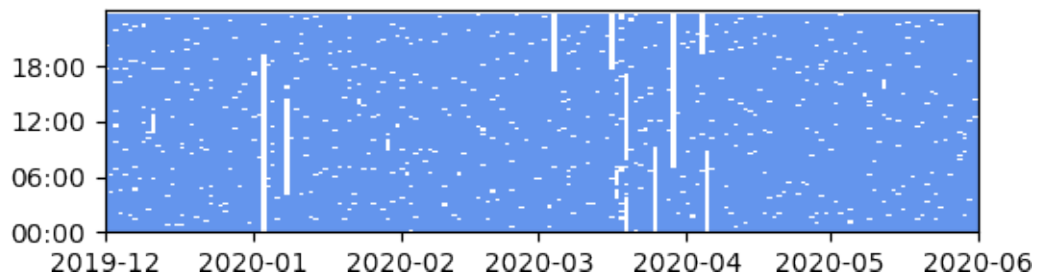


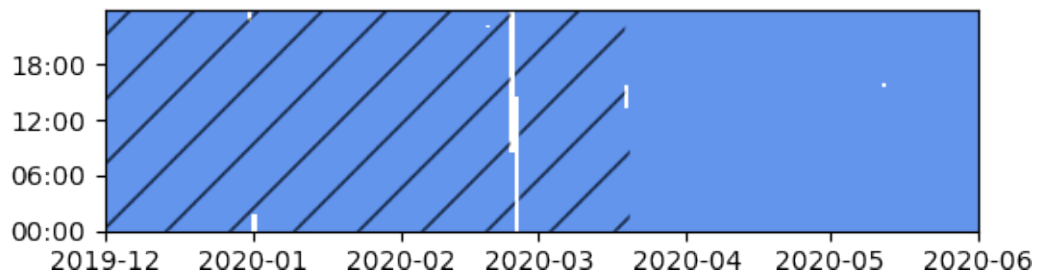
# Andenes, Norway; AMF1 (main site for COMBLE)

## Atmospheric Radiation Measurement User Facility

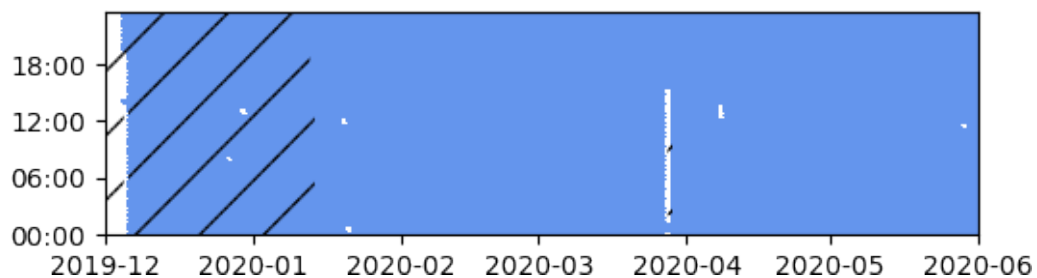
Atmospheric Emitted Radiance Interferometer  
(AERI): summary data  
ARM Name: AERI  
Datastream: anxaerisummaryM1.b1



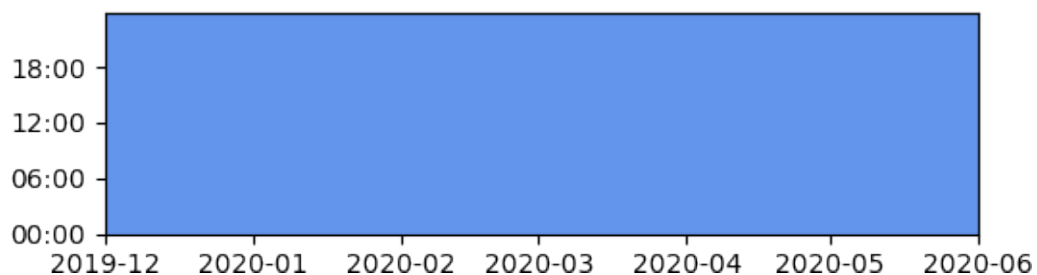
Ceilometer (CEIL): cloud-base heights  
ARM Name: CEIL  
Datastream: anxceilM1.b1



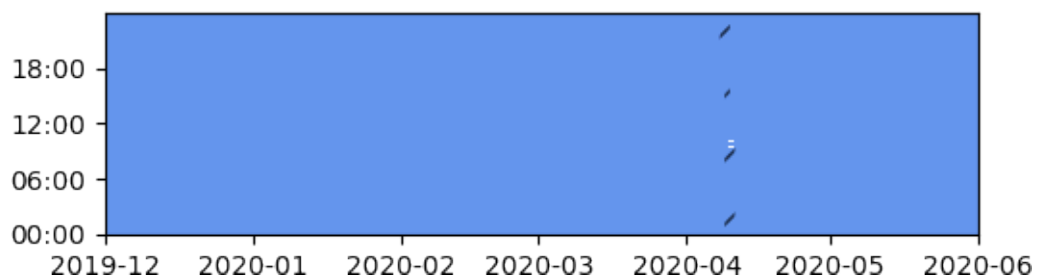
ECOR: surface vertical fluxes of momentum,  
sensible heat, and latent heat, 30-min avg  
ARM Name: ECOR  
Datastream: anx30ecorM1.b1



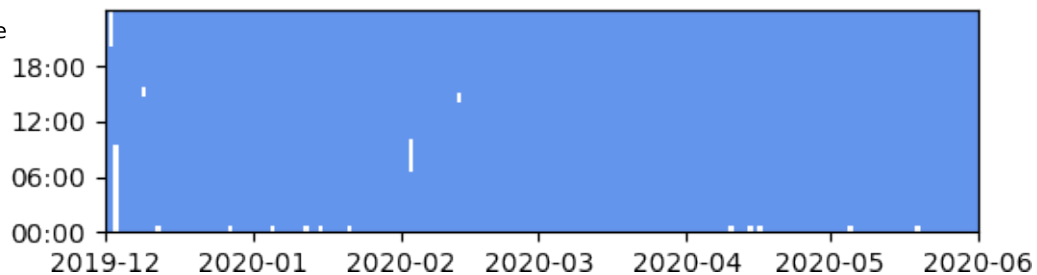
Ground radiation sensor: 60-second upwelling  
ARM Name: GNDRAD  
Datastream: anxgndrad60sM1.b1



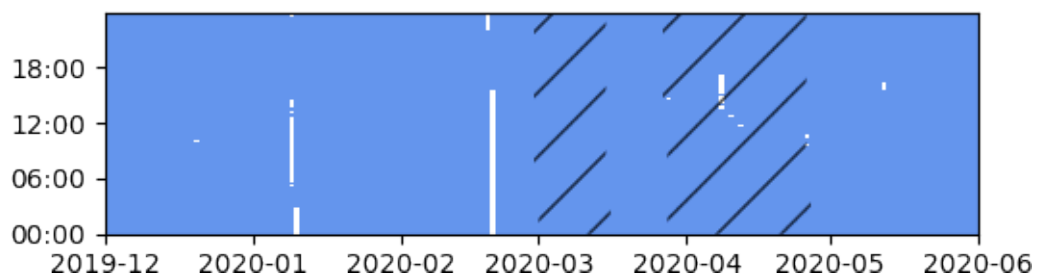
Infrared Thermometer: Sky brightness  
temperature  
ARM Name: IRT  
Datastream: anxirtM1.b1



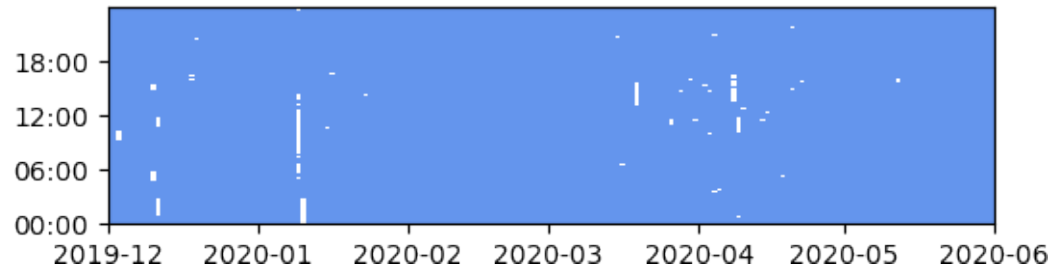
Ka-Band ARM Zenith RADAR (KAZR); general mode  
ARM Name: KAZR  
Datastream: anxkazrcfrgeM1.a1



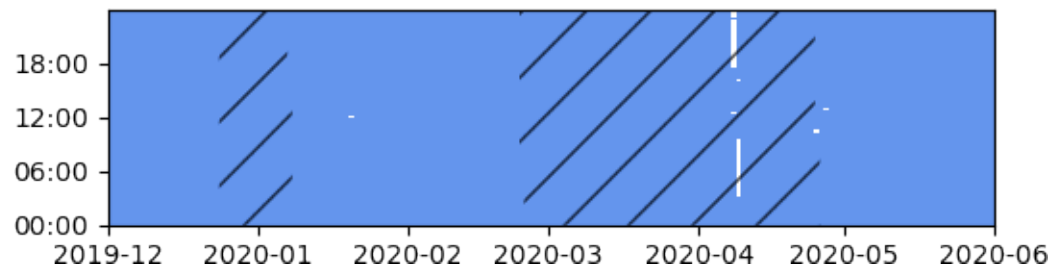
Laser disdrometer  
ARM Name: LDIS  
Datastream: anxldM1.b1



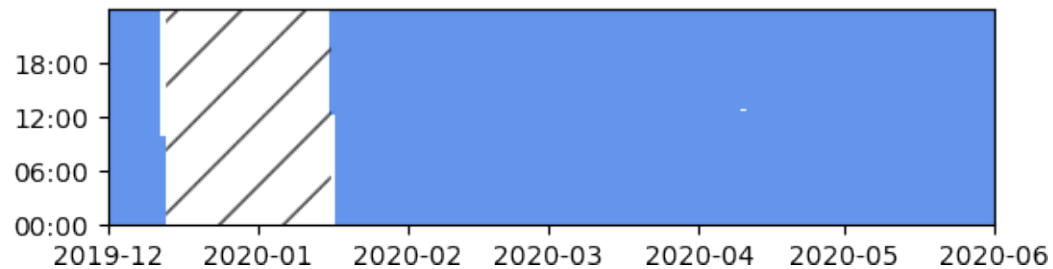
Vaisala Automatic Weather Station  
ARM Name: MAWS  
Datastream: anxmawsM1.b1



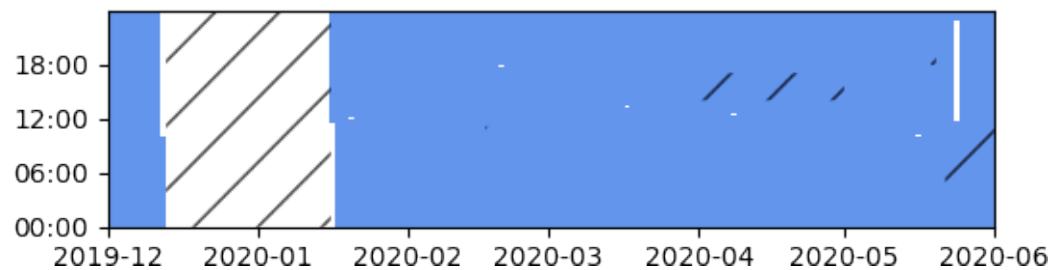
Surface Meteorological Instrumentation  
ARM Name: MET  
Datastream: anxmetM1.b1



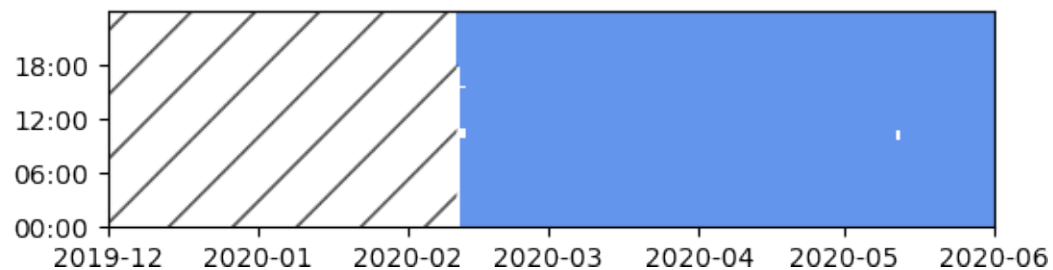
Multi-Filter Radiometer (MFR): upwelling  
irradiance at 10-meter height  
ARM Name: MFR  
Datastream: anxmfr10mM1.b1



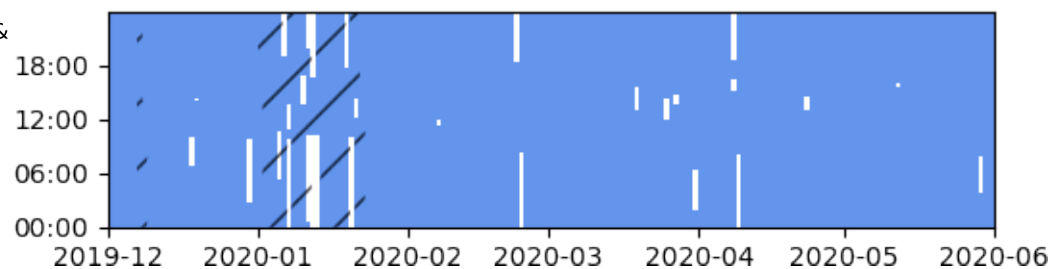
Multi-Filter Rotating Shadowband Radiometer  
(MFRSR): irradiances  
ARM Name: MFRSR  
Datastream: anxmfrsrM1.b1



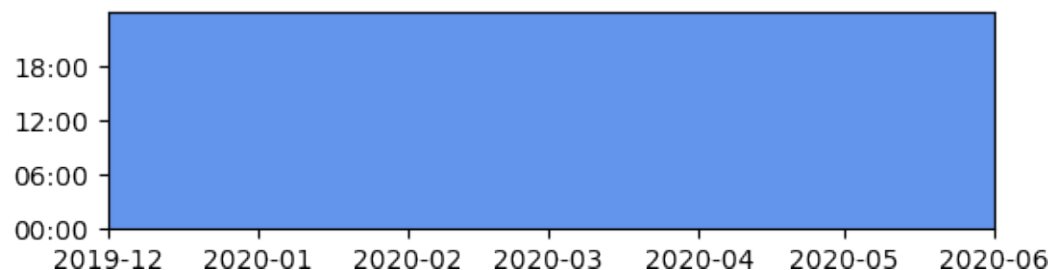
Micropulse Lidar (MPL) polarized, fast  
switching: cloud base and top heights  
ARM Name: MPL  
Datastream: anxmplpolsM1.b1



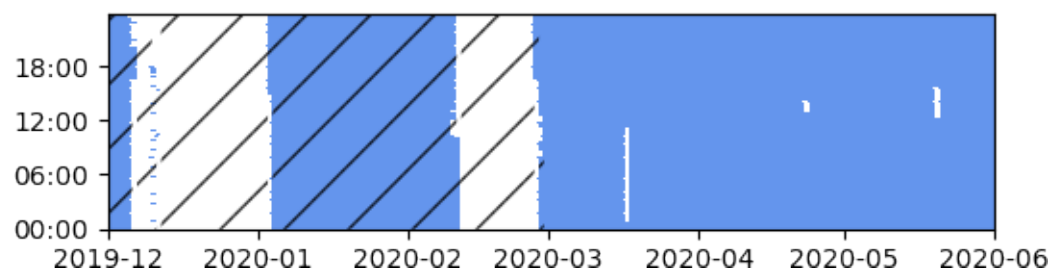
Microwave Water Radiometer (MWR): water liq. &  
vapor along line of sight (LOS) path  
ARM Name: MWR  
Datastream: anxmwrlosM1.b1



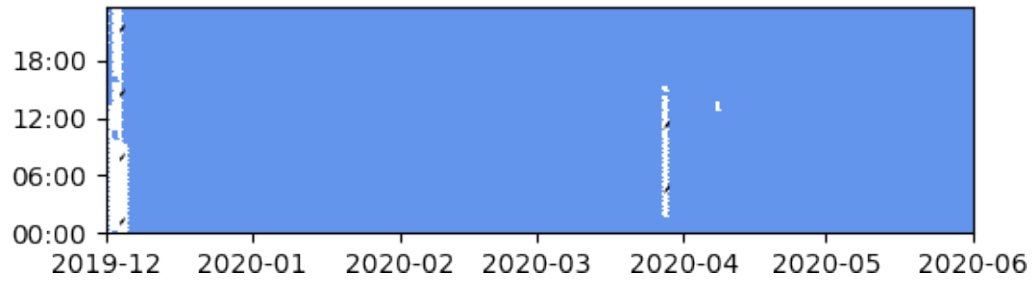
Narrow Field of View 2-Channel Radiometer  
ARM Name: NFOV  
Datastream: anxnfov2chM1.b1



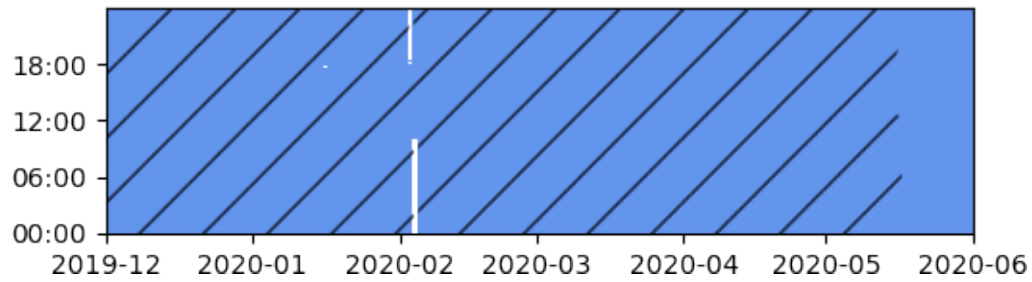
1290-MHz Radar Wind Profiler, precipitation  
consensus data  
ARM Name: RWP  
Datastream: anx1290rwpprecipconM1.a1,  
anx1290rwpwindconM1.a1



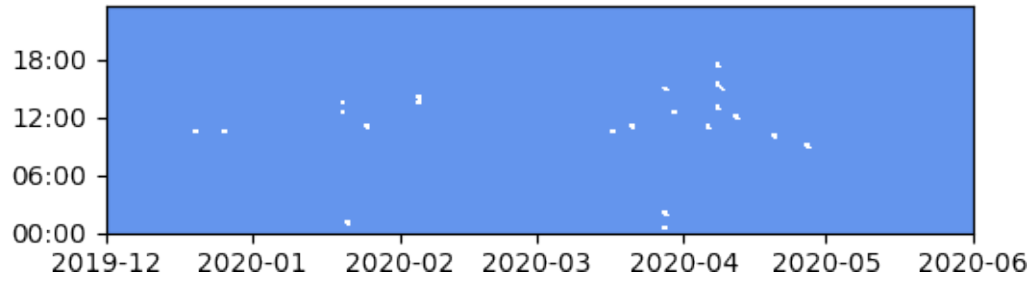
Surface Energy Balance System  
ARM Name: SEBS  
Datastream: anxsebsM1.b1



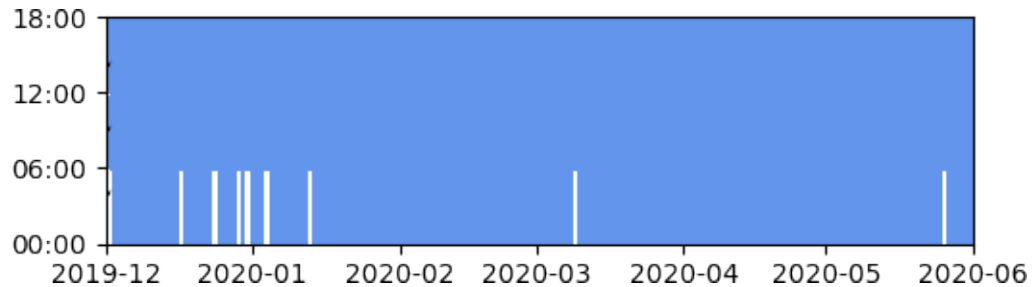
Sky radiation sensor: 60-second downwelling irradiances  
ARM Name: SKYRAD  
Datastream: anxskyrad60sM1.b1



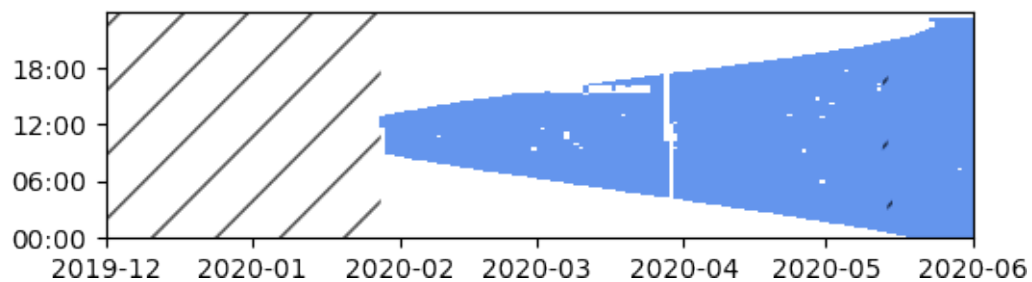
Mini Sound Detection and Ranging (SODAR)  
ARM Name: SODAR  
Datastream: anxsondarM1.b1



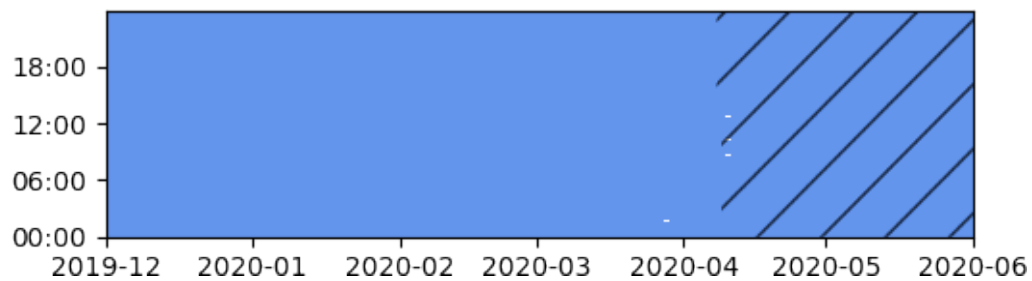
Balloon-borne sounding system (BBSS): Vaisala-processed winds, press., temp, &RH  
ARM Name: SONDE  
Datastream: anxsondewnpnM1.b1



Total Sky Imager (TSI): fractional sky coverage  
ARM Name: TSI  
Datastream: anxtsiskycoverM1.b1



Pluvio-2 Weighing Bucket Precipitation Gauge  
ARM Name: WB  
Datastream: anxwbpluvio2M1.a1



## ARM Data Quality Report (DQR) Table

Datastream	DQR	Quality	Subject	Start Date	End Date
anxceilM1.b1	D200225.4	missing	Data Communication Failure	20200224.084100	20200225.145959
anxceilM1.b1	D200107.7	suspect	Ringing Waveform in Backscatter Profile	20190926.095400	20200319.112959
anx30ecorM1.b1	D200330.1	missing	Missing Data	20200328.013000	20200328.150000
anx30ecorM1.b1	D200116.2	incorrect	Missing and Incorrect Data	20191205.040000	20200113.123000
anxirtM1.b1	D200410.1	missing	Missing Data	20200408.174400	20200410.135949
anxldM1.b1	D200413.1	missing	Data Not Available	20200410.152500	20200412.121000
anxldM1.b1	D200422.1	missing	Power Issue	20191002.084300	20191025.160600
anxldM1.b1	D200422.2	suspect	Suspect Data	20200327.125400	20200426.084800
anxmetM1.b1	D200430.1	incorrect	Optical Rain Gauge Not Reporting	20200414.000000	20200424.113000
anxmetM1.b1	D200107.1	missing	Missing Diagnostic Data	20191224.010000	20200107.152500
anxmetM1.b1	D200429.1	incorrect	Incorrect Temperature Data	20200224.070000	20200425.111500
anxmfr10mM1.b1	D200122.1	missing	Missing Data - Polar Night Removal	20191212.100220	20200116.122820
anxmfrsrM1.b1	D200207.14	missing	Missing Data - Instrument removed for polar night	20191212.101740	20200116.114800
anxmfrsrM1.b1	D200616.2	incorrect	Shading Problem - Shadowband Misalignment	20200601.045600	20200601.110000
anxmfrsrM1.b1	D200305.3	incorrect	Shading Problem - Shadowband Misalignment	20200219.084740	20200219.113320
anxmwrlosM1.b1	D200127.1	missing	Missing Data	20200101.155650	20200122.140000
anxmwrlosM1.b1	D200124.3	incorrect	Noisy Surface Temperature Readings	20191206.210000	20191208.140000
anx1290rwpprecipconM1.b1	D200302.5	missing	Data Missing due to Failed Relays	20190926.102000	20200228.125959
anxsebsM1.b1	D200415.2	missing	Missing Data	20200328.020000	20200328.150000
anxskyrad60sM1.b1	D200128.2	incorrect	Incorrect down_long_hemisp2	20200127.000000	20200127.123000
anxskyrad60sM1.b1	D200519.1	incorrect	Incorrect calibration coefficient applied to downwelling diffuse measurement (8-48 instrument)	20191010.000000	20200516.123000
anxskyrad60sM1.b1	D200207.5	incorrect	Shading Caused by Light Pole Obstruction	20200206.103000	20200206.120000
anxtsiskycoverM1.b1	D200330.3	missing	Power Outage	20200328.103100	20200329.121659
anxtsiskycoverM1.b1	D191113.2	missing	Polar Night	20191113.093700	20200128.115959
anxtsiskycoverM1.b1	D200518.2	suspect	Condensation	20200513.083000	20200514.091459
anxbpluvio2M1.a1	D210205.7	missing	Missing and Incorrect Data	20200408.120000	20200410.140000
anxbpluvio2M1.a1	D210210.2	incorrect	Questionable data	20200410.140000	20200602.170000

## ARM Data Object Identifier (DOI) Table

Instrument	DOI
AERI	Gero, J., Garcia, R., Hackel, D., Ermold, B., & Gaustad, K. (2019). Atmospheric Emitted Radiance Interferometer (AERICH1). Atmospheric Radiation Measurement (ARM) user facility. doi: 10.5439/1025143.
CEIL	Morris, V., Zhang, D., & Ermold, B. (2019). Ceilometer (CEIL10M). Atmospheric Radiation Measurement (ARM) user facility.
ECOR	Sullivan, R., Billesbach, D., & Keeler, E. (2019). Eddy Correlation Flux Measurement System (30ECOR). Atmospheric Radiation Measurement (ARM) user facility. doi: 10.5439/1025039.
GNDRAD	Sengupta, M., Andreas, A., Habte, A., Kutchenreiter, M., Reda, I., Xie, Y., & Gotseff, P. (2019). Ground Radiometers on Stand for Upwelling Radiation (GNDRAD60S). Atmospheric Radiation Measurement (ARM) user facility. doi: 10.5439/1025192.
IRT	Morris, V., & Howie, J. (2019). Infrared Thermometer (GNDIRT). Atmospheric Radiation Measurement (ARM) user facility. doi: 10.5439/1376838.
KAZR	Lindenmaier, I., Johnson, K., Nelson, D., Isom, B., Matthews, A., Wendler, T., & Castro, V. (2019). Ka ARM Zenith Radar (KAZRCFRGE). Atmospheric Radiation Measurement (ARM) user facility. doi: 10.5439/1498936.
LDIS	Shi, Y. (2019). Laser Disdrometer (LD). Atmospheric Radiation Measurement (ARM) user facility. doi: 10.5439/1498731.
MAWS	Keeler, E., Kyrouac, J., & Ermold, B. (2019). Automatic Weather Station (MAWS). Atmospheric Radiation Measurement (ARM) user facility. doi: 10.5439/1182027.
MET	Kyrouac, J., & Holdridge, D. (2019). Surface Meteorological Instrumentation (MET). Atmospheric Radiation Measurement (ARM) user facility. doi: 10.5439/1025220.
MFR	Hodges, G., & Herrera, C. (2019). Multifilter Radiometer (MFR10M). Atmospheric Radiation Measurement (ARM) user facility. doi: 10.5439/1025224.
MFRSR	Hodges, G., & Herrera, C. (2019). Multifilter Rotating Shadowband Radiometer (MFRSR). Atmospheric Radiation Measurement (ARM) user facility. doi: 10.5439/1023898.
MPL	Cromwell, E., Koontz, A., Muradyan, P., & Coulter, R. (2020). Micropulse Lidar (MPLPOLFS). Atmospheric Radiation Measurement (ARM) user facility. doi: 10.5439/1320657.
MWR	Cadeddu, M. (2019). Microwave Radiometer (MWRLOS). Atmospheric Radiation Measurement (ARM) user facility. doi: 10.5439/1046211.
NFOV	Hodges, G., & Herrera, C. (2019). Narrow Field of View Zenith Radiometer (NFOV2CH). Atmospheric Radiation Measurement (ARM) user facility. doi: 10.5439/1025257.
RWP	Muradyan, P. (2019). Radar Wind Profiler (1290RWPPRECIPCON). Atmospheric Radiation Measurement (ARM) user facility. doi: 10.5439/1482572.
SEBS	Sullivan, R., & Keeler, E. (2019). Surface Energy Balance System (SEBS). Atmospheric Radiation Measurement (ARM) user facility. doi: 10.5439/1025274.
SKYRAD	Sengupta, M., Andreas, A., Habte, A., Kutchenreiter, M., Reda, I., Xie, Y., & Gotseff, P. (2019). Sky Radiometers on Stand for Downwelling Radiation (SKYRAD60S). Atmospheric Radiation Measurement (ARM) user facility. doi: 10.5439/1025281.

### ARM Data Object Identifier (DOI) Table

Instrument	DOI
SODAR	Muradyan, P. (2019). Mini Sound Detection and Ranging (SODAR). Atmospheric Radiation Measurement (ARM) user facility. doi: 10.5439/1150265.
SONDE	Keeler, E., & Kyrouac, J. (2019). Balloon-Borne Sounding System (SONDEWNPN). Atmospheric Radiation Measurement (ARM) user facility. doi: 10.5439/1021460.
TSI	Morris, V., & Flynn, D. (2020). Total Sky Imager (TSISKYCOVER). Atmospheric Radiation Measurement (ARM) user facility. doi: 10.5439/1025308.
WB	Wang, D., Bartholomew, M., & Cromwell, E. (2019). Weighing Bucket Precipitation Gauge (WBPLUVIO2). Atmospheric Radiation Measurement (ARM) user facility.