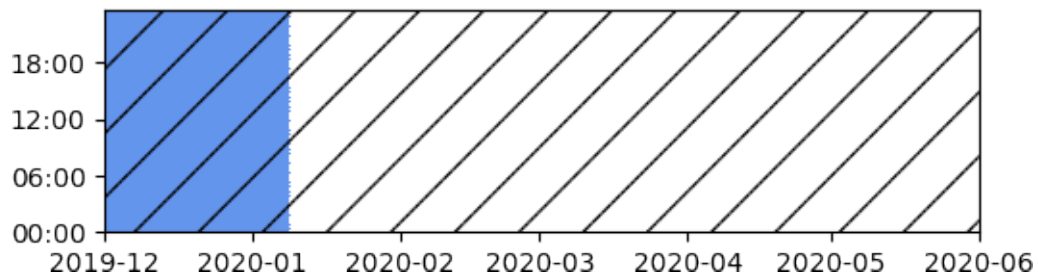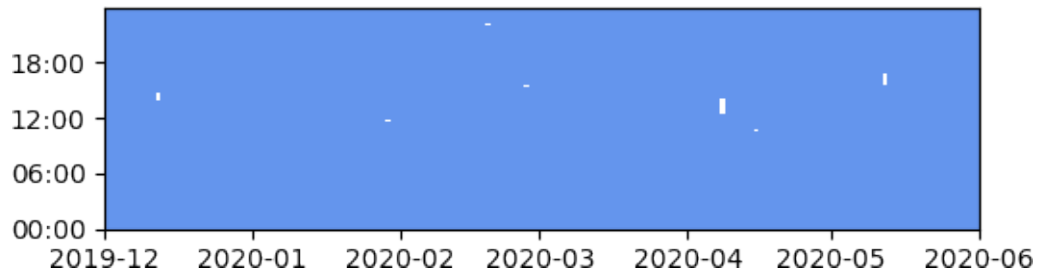# Andenes, Norway; AMF1 (main site for COMBLE)

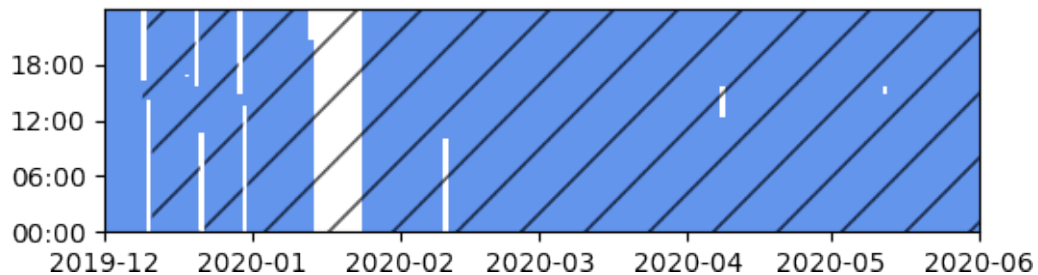## Atmospheric Radiation Measurement User Facility

AOS: aerosol chemical speciation monitor
ARM Name: ACSM
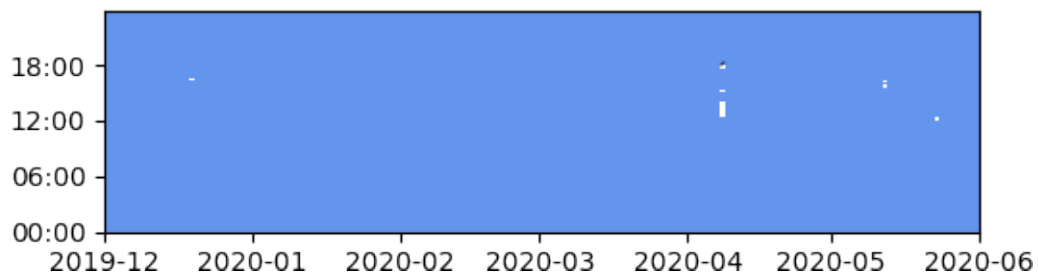Datastream: anxaosacsmM1.b1

Aerosol Observing System (AOS): Two Spot
Aethalometer
ARM Name: AETH
Datastream: anxaosaeth2spotM1.a1

AOS: Cloud Condensation Nuclei Counter (Dual
Column), ramping mode
ARM Name: CCN
Datastream: anxaosccn2colaM1.b1

AOS: Carbon Monoxide Analyzer
ARM Name: CO-ANALYZER
Datastream: anxaoscoM1.b1

AOS: Ultrafine Condensation Particle Counter:
1-minute gridded data
ARM Name: CPC
Datastream: anxaoscpcu1mM1.b1
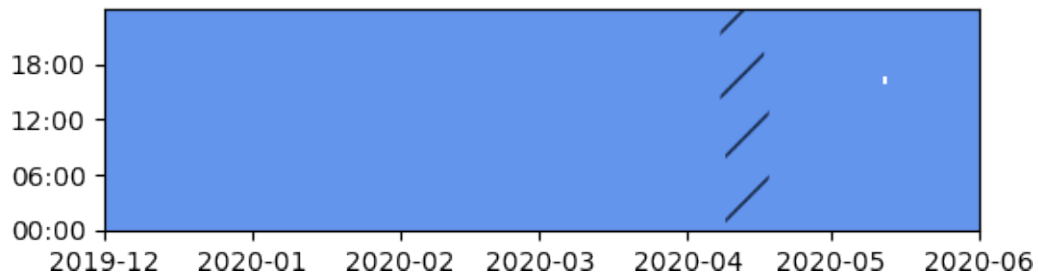
AOS Humidified Tandem Differential Mobility
Analyzer
ARM Name: HTDMA
Datastream: anxaoshtdmaM1.a1

AOS: aerosol-based meteorology data
ARM Name: AOSMET
Datastream: anxaosmetM1.a1

AOS Wet Nephelometer 1 Minute Averages
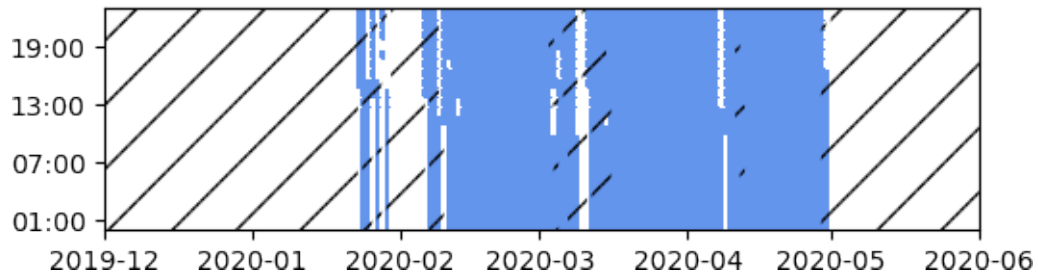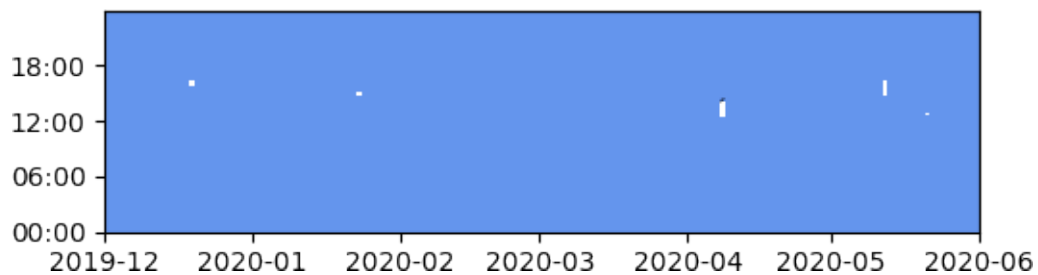ARM Name: NEPHELOMETER
Datastream: anxaosnephwet1mM1.b1
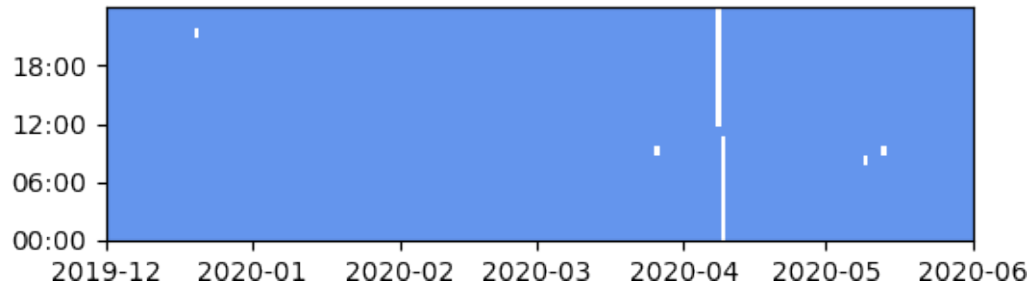
AOS: Ozone (O3) Monitor
ARM Name: OZONE
Datastream: anxaoso3M1.b1
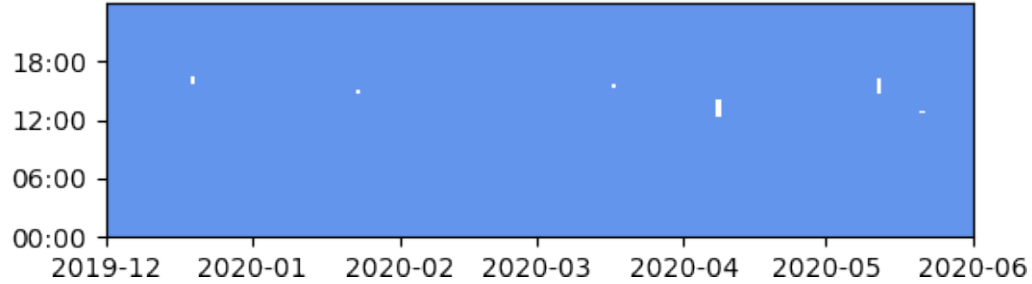
AOS: 3 wavelength Particle Soot Absorption
Photometer 1 minute averages
ARM Name: PSAP
Datastream: anxaospsap3w1mM1.b1
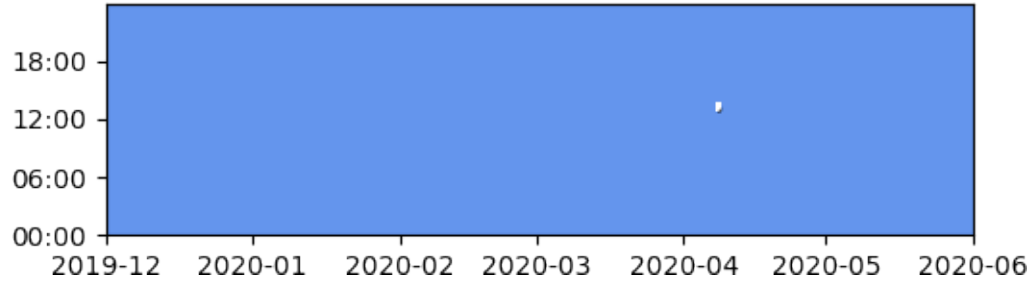
AOS: Scanning-Mobility Particle Sizer
ARM Name: SMPS
Datastream: anxaossmpsM1.a1

AOS: Ultrahigh Sensitivity Aerosol Spectrometer
ARM Name: UHSAS
Datastream: anxaosuhsasM1.b1

ARM Data Quality Report (DQR) Table

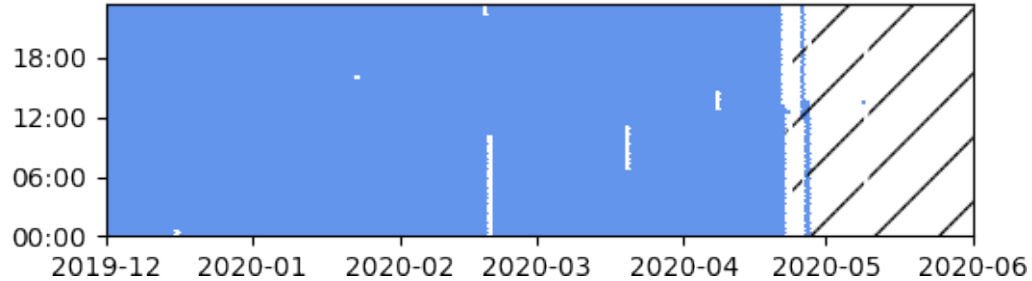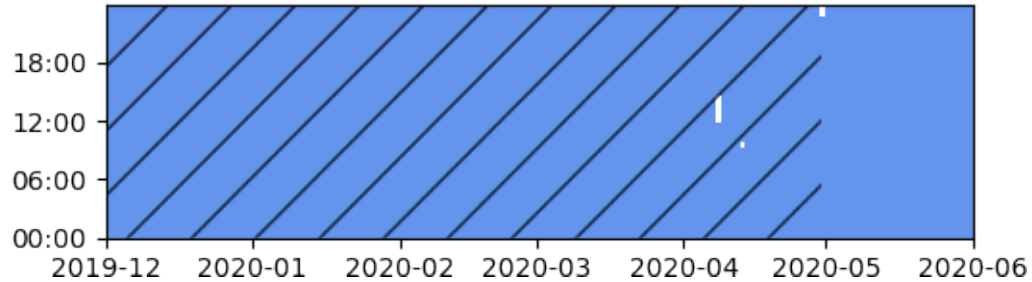| Datastream	DQR	Quality	Subject	Start Date	End Date
anxaosacsmM1.b1	D200408.6	missing	ANX Power Failure - Generator Failed (?)	20200408.123800	20200408.142500
anxaosacsmM1.b1	D200501.2	missing	Failed Detector and P3 Turbo Molecular Pump	20191121.150000	20200531.235959
anxaosaeth2spotM1.a1	D200408.6	missing	ANX Power Failure - Generator Failed (?)	20200408.123800	20200408.142500
anxaosccn2colaM1.b1	D200408.6	missing	ANX Power Failure - Generator Failed (?)	20200408.123800	20200408.142500
anxaosccn2colaM1.b1	D200528.1	incorrect	Flow Issues	20191209.100000	20200118.000000
anxaosccn2colaM1.b1	D200122.3	suspect	Counting Issues in Column A	20191209.110000	20200601.000000
anxaoscoM1.b1	D200408.6	missing	ANX Power Failure - Generator Failed (?)	20200408.123800	20200408.142500
anxaoscoM1.b1	D200408.7	missing	Power Failure caused Laser Lock Failure	20200408.123800	20200408.182000
anxaoscpcu1mM1.b1	D200408.6	missing	ANX Power Failure - Generator Failed (?)	20200408.123800	20200408.142500
anxaoscpcu1mM1.b1	D200501.6	incorrect	Incorrect Data	20200408.125000	20200417.142000
anxaoshtdmaM1.a1	D200408.6	missing	ANX Power Failure - Generator Failed (?)	20200408.123800	20200408.142500
anxaoshtdmaM1.a1	D200513.1	missing	No Particle Counts	20200428.210000	20200531.235959
anxaoshtdmaM1.a1	D200413.2	incorrect	Dry Air System Failure	20200411.094500	20200412.130000
anxaoshtdmaM1.a1	D200317.1	incorrect	Flow Issues	20200306.120000	20200315.130000
anxaoshtdmaM1.a1	D200312.1	missing	Data System and Flow Issues	20191110.000000	20200210.120000
anxaoshtdmaM1.a1	D200309.1	incorrect	Instrument Maintenance	20200303.120000	20200304.160000
anxaosmetM1.a1	D200408.6	missing	ANX Power Failure - Generator Failed (?)	20200408.123800	20200408.142500
anxaosmetM1.a1	D200417.1	incorrect	Wind Direction Offset Incorrect	20191014.070000	20191102.100900
anxaosnephwet1mM1.b	D200408.6	missing	ANX Power Failure - Generator Failed (?)	20200408.123800	20200408.142500
anxaospsap3w1mM1.b1	D200408.6	missing	ANX Power Failure - Generator Failed (?)	20200408.123800	20200408.142500
anxaossmpsM1.a1	D200605.5	missing	No Data	20200422.100044	20200531.235959
anxaossmpsM1.a1	D200408.6	missing	ANX Power Failure - Generator Failed (?)	20200408.123800	20200408.142500
anxaosuhsasM1.b1	D200914.5	missing	The new aosuhsas.b1 datastream needs to be created for anxM1	20191007.000000	20200430.000000
anxaosuhsasM1.b1	D200501.10	suspect	Timestamp is off by an average of 1843.6 seconds	20200408.141619	20200413.085300
anxaosuhsasM1.b1	D200408.6	missing	ANX Power Failure - Generator Failed (?)	20200408.123800	20200408.142500

ARM Data Object Identifier (DOI) Table

Instrument	DOI
ACSM	Kulkarni, G. (2019). Aerosol Chemical Speciation Monitor (AOSACSM). Atmospheric Radiation Measurement (ARM) user facility. doi: 10.5439/1558768.
AETH	Koontz, A. (2019). Aethalometer (AOSAETH2SPOT). Atmospheric Radiation Measurement (ARM) user facility. doi: 10.5439/1211529.
CCN	Uin, J., Salwen, C., & Senum, G. (2019). Cloud Condensation Nuclei Particle Counter (AOSCCN2COLA). Atmospheric Radiation Measurement (ARM) user facility.
CO-ANALYZER	Springston, S. (2019). Carbon Monoxide Analyzer (AOSCO). Atmospheric Radiation Measurement (ARM) user facility. doi: 10.5439/1046183.
CPC	Kuang, C., Salwen, C., Boyer, M., & Singh, A. (2020). Condensation Particle Counter (AOSCPCF1M). Atmospheric Radiation Measurement (ARM) user facility. doi: 10.5439/1418260.
HTDMA	Uin, J., & Cromwel, E. (2020). Humidified Tandem Differential Mobility Analyzer (AOSHTDMA). Atmospheric Radiation Measurement (ARM) user facility. doi: 10.5439/1095581.
AOSMET	Kyrouac, J., & Springston, S. (2019). Meteorological Measurements associated with the Aerosol Observing System (AOSMET). Atmospheric Radiation Measurement (ARM) user facility. doi: 10.5439/1025153.
NEPHELOMETER	Uin, J., Salwen, C., & Senum, G. (2019). Nephelometer (AOSNEPHDRY1M). Atmospheric Radiation Measurement (ARM) user facility. doi: 10.5439/1259232.
OZONE	Koontz, A., & Springston, S. (2019). Ozone Monitor (AOSO3). Atmospheric Radiation Measurement (ARM) user facility. doi: 10.5439/1346692.
PSAP	Springston, S., & Salwen, C. (2019). Particle Soot Absorption Photometer (AOSPSAP3W1M). Atmospheric Radiation Measurement (ARM) user facility.
SMPS	Koontz, A., & Kuang, C. (2019). Scanning mobility particle sizer (AOSSMPS). Atmospheric Radiation Measurement (ARM) user facility. doi: 10.5439/1225453.
UHSAS	Koontz, A., & Flynn, C. (2019). Ultra-High Sensitivity Aerosol Spectrometer (AOSUHSAS). Atmospheric Radiation Measurement (ARM) user facility. doi: 10.5439/1409033.