

# MOSAIC (Drifting Obs - Study of Arctic Climate); AMF2

## Atmospheric Radiation Measurement User Facility



## ARM Data Quality Report (DQR) Table

Datastream	DQR	Quality	Subject	Start Date	End Date
mosaosmetM1.a1	D210817.1	missing	Polarstern in Norwegian Territorial Waters	20200603.203600	20200608.200000
mosaosmetM1.a1	D200227.6	missing	Intermittent Missing Wind Data	20191119.112000	20200117.132200
mosaosccn200M1.a1	D200415.4	incorrect	Inlet Sampling HEPA Filtered Air	20191212.110500	20191214.044700
mosaosccn200M1.a1	D210817.1	missing	Polarstern in Norwegian Territorial Waters	20200603.203600	20200608.200000
mosaosccn200M1.a1	D191111.1	incorrect	Data affected when the purge system is on.	20200711.040614	20200712.202110
mosaoscoM1.a1	D210817.1	missing	Polarstern in Norwegian Territorial Waters	20200603.203600	20200608.200000
mosaoscoM1.a1	D200724.1	incorrect	Period of Disruption - Operator Worked with Mentor	20200406.000500	20200409.185500
mosaoscoM1.a1	D200102.7	incorrect	Possible Pump Failure	20191224.223000	20190106.140500
mosaoscoM1.a1	D200415.3	incorrect	Internal Pump Died	20191214.040000	20200106.141500
mosaoscpcfM1.a1	D191111.1	incorrect	Data affected when the purge system is on.	20200408.024503	20200408.033539
mosaoscpcfM1.a1	D210817.1	missing	Polarstern in Norwegian Territorial Waters	20200603.203600	20200608.200000
mosaoscpcfM1.a1	D200415.4	incorrect	Inlet Sampling HEPA Filtered Air	20191212.110500	20191214.044700
mosaoscpcefM1.a1	D220502.2	missing	No Data	20200514.165234	20200520.080102
mosaoscpcefM1.a1	D191111.1	incorrect	Data affected when the purge system is on.	20191110.121039	20191110.121042
mosaoscpcefM1.a1	D210817.1	missing	Polarstern in Norwegian Territorial Waters	20200603.203600	20200608.200000
mosaoscpcefM1.a1	D200415.4	incorrect	Inlet Sampling HEPA Filtered Air	20191212.110500	20191214.044700
mosaoshtdmaM1.a1	D191111.1	incorrect	Data affected when the purge system is on.	20191107.074636	20191107.091040
mosaoshtdmaM1.a1	D210817.1	missing	Polarstern in Norwegian Territorial Waters	20200603.203600	20200608.200000
mosaoshtdmaM1.a1	D200710.4	incorrect	Flow Issues from Flooding	20200226.000000	20200620.000000
mosaoshtdmaM1.a1	D200116.1	incorrect	Internal Flow Issues	20200106.100000	20200116.100000
mosaoshtdmaM1.a1	D191217.1	incorrect	Flow Issues	20191207.000000	20191210.000000
mosaoshtdmaM1.a1	D200415.4	incorrect	Inlet Sampling HEPA Filtered Air	20191212.110500	20191214.044700
mosaosimpactorM1.a1	D220216.6	missing	No Data	20200821.142933	20200824.151546
mosaosimpactorM1.a1	D210817.1	missing	Polarstern in Norwegian Territorial Waters	20200603.203600	20200608.200000
mosaosnephdryM1.a1	D191111.1	incorrect	Data affected when the purge system is on.	20191228.074320	20191229.082647
mosaosnephdryM1.a1	D210817.1	missing	Polarstern in Norwegian Territorial Waters	20200603.203600	20200608.200000
mosaosnephdryM1.a1	D200415.4	incorrect	Inlet Sampling HEPA Filtered Air	20191212.110500	20191214.044700
mosaoso3M1.a1	D210817.1	missing	Polarstern in Norwegian Territorial Waters	20200603.203600	20200608.200000
mosaossmpsM1.a1	D191111.1	incorrect	Data affected when the purge system is on.	20191012.111003	20191012.111025
mosaossmpsM1.a1	D210817.1	missing	Polarstern in Norwegian Territorial Waters	20200603.203600	20200608.200000

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Datastream	DQR	Quality	Subject	Start Date	End Date
mosaossmpsM1.a1	D201120.2	incorrect	Data Affected	20200327.132514	20200328.073014
mosaossmpsM1.a1	D201118.4	incorrect	Data Affected	20200203.151514	20200204.065514
mosaossmpsM1.a1	D191114.1	incorrect	Clogged Impactor on SMPS	20191104.053000	20191111.040000
mosaossmpsM1.a1	D200211.1	incorrect	SMPS Impactor Clogged.	20200203.150000	20200204.070000
mosaossmpsM1.a1	D200415.4	incorrect	Inlet Sampling HEPA Filtered Air	20191212.110500	20191214.044700
mosaosuhsasM1.a1	D191111.1	incorrect	Data affected when the purge system is on.	20200408.024503	20200408.033539
mosaosuhsasM1.a1	D210817.1	missing	Polarstern in Norwegian Territorial Waters	20200603.203600	20200608.200000
mosaosuhsasM1.a1	D200415.4	incorrect	Inlet Sampling HEPA Filtered Air	20191212.110500	20191214.044700
mosaosuhsasM1.a1	D230718.9	suspect	Potential Data Quality Issues above 550 nm	20191011.000000	20201001.141650

## ARM Data Object Identifier (DOI) Table

Instrument	DOI
AOSMET	Kyrouac, J., Springston, S., & Tuftedal, M. Meteorological Measurements associated with the Aerosol Observing System (AOSMET). Atmospheric Radiation Measurement (ARM) User Facility. <a href="https://doi.org/10.5439/1984920">https://doi.org/10.5439/1984920</a>
CCN	Koontz, A., & Senum, G. Cloud Condensation Nuclei Particle Counter (AOSCCN200). Atmospheric Radiation Measurement (ARM) User Facility. <a href="https://doi.org/10.5439/1223287">https://doi.org/10.5439/1223287</a>
CO-ANALYZER	Trojanowski, R., Springston, S., & Koontz, A. Carbon Monoxide Analyzer (AOSCO). Atmospheric Radiation Measurement (ARM) User Facility. <a href="https://doi.org/10.5439/1351064">https://doi.org/10.5439/1351064</a>
CPC	Kuang, C., Singh, A., & Cromwell, E. Condensation Particle Counter (AOSPCPCF). Atmospheric Radiation Measurement (ARM) User Facility. <a href="https://doi.org/10.5439/1336393">https://doi.org/10.5439/1336393</a>
CPCUF	N/A
HTDMA	Uin, J., & Cromwel, E. Humidified Tandem Differential Mobility Analyzer (AOSHTDMA). Atmospheric Radiation Measurement (ARM) User Facility. <a href="https://doi.org/10.5439/1095581">https://doi.org/10.5439/1095581</a>
AOS	Mayol-Bracero, O., Springston, S., & Smith, S. Aerosol Observing System (AOSIMPACTOR). Atmospheric Radiation Measurement (ARM) User Facility. <a href="https://doi.org/10.5439/1974859">https://doi.org/10.5439/1974859</a>
NEPHELOMETER	Uin, J., & Koontz, A. Nephelometer (AOSNEPHDRY). Atmospheric Radiation Measurement (ARM) User Facility. <a href="https://doi.org/10.5439/1258791">https://doi.org/10.5439/1258791</a>
OZONE	Trojanowski, R., Springston, S., & Koontz, A. Ozone Monitor (AOSO3). Atmospheric Radiation Measurement (ARM) User Facility. <a href="https://doi.org/10.5439/1287329">https://doi.org/10.5439/1287329</a>
PSAP	Trojanowski, R., Springston, S., & Koontz, A. Particle Soot Absorption Photometer (AOSPSAP3W). Atmospheric Radiation Measurement (ARM) User Facility. <a href="https://doi.org/10.5439/1333829">https://doi.org/10.5439/1333829</a>
SMPS	Kuang, C., & Singh, A. Scanning mobility particle sizer (AOSSMPS). Atmospheric Radiation Measurement (ARM) User Facility. <a href="https://doi.org/10.5439/1225453">https://doi.org/10.5439/1225453</a>
UHSAS	Uin, J., & Koontz, A. Ultra-High Sensitivity Aerosol Spectrometer (AOSUHSAS). Atmospheric Radiation Measurement (ARM) User Facility. <a href="https://doi.org/10.5439/1333828">https://doi.org/10.5439/1333828</a>