## MOSAIC (Drifting Obs - Study of Arctic Climate); AMF2 Atmospheric Radiation Measurement User Facility

All-in-one meteorology sensor, intended solely for the purpose of analyzing the data from the AOS instruments ARM Name: AOSMET

Datastream: mosaosmetM1.a1 AOS: Dual Column Cloud Condensation

Nuclei Counter ARM Name: CCN

Datastream: mosaosccn200M1.a1

AOS: Carbon Monoxide Analyzer ARM Name: CO-ANALYZER Datastream: mosaoscoM1.a1

AOS: Fine Condensation Particle Counter

ARM Name: CPC

Datastream: mosaoscpcfM1.a1

AOS: Ultrafine Condensation Particle

ARM Name: CPCUF

Datastream: mosaoscpcufM1.a1

AOS Humidified Tandem Differential Mobility Analyzer

ARM Name: HTDMA
Datastream: mosaoshtdmaM1.a1

AOS impactor state corrected with

nephelometer pressure ARM Name: AOS

Datastream: mosaosimpactorM1.a1

AOS: ambient nephelometer measurements, with calibrations applied at b1-level

and above

ARM Name: NEPHELOMETER

Datastream: mosaosnephdryM1.a1 AOS: Ozone (O3) Monitor ARM Name: OZONE Datastream: mosaoso3M1.a1

mosaospsap3w1mM1.a1

ARM Name: PSAP

Datastream: mosaospsap3w1mM1.a1

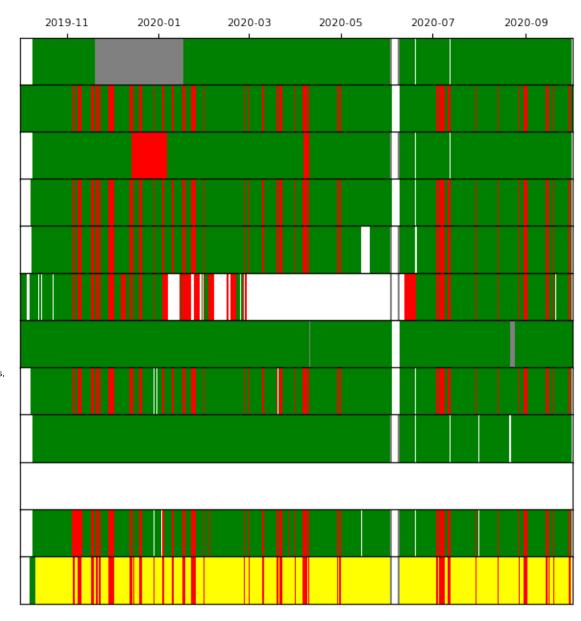
AOS: Scanning-Mobility Particle Sizer ARM Name: SMPS

Datastream: mosaossmpsM1.a1

AOS: Ultrahigh Sensitivity Aerosol

Spectrometer
ARM Name: UHSAS

Datastream: mosaosuhsasM1.a1



## ARM Data Quality Report (DQR) Table

Polaristern in Norwegion Territorial Waters   20200603 203000   20200608 200000   20200608 200000   20200608 200000   20200608 200000   20200608 200000   20200608 200000   20200608 200000   20200608 200000   20200608 200000   20200608 200000   20200608 200000   20200608 200000   20200608 200000   20200608 200000   20200608 200000   20200608 200000   20200608 200000   20200608 20200608 202000   20200608 20200   20200608 20200   20200608 20200   20200608 202000   20200608 20200	Datastream	DQR	Quality	Subject	Start Date	End Date
mosaccementAl_al         02002276 missing         Intermittent Missing Wind Data         20191119112000         20200117.132200           mosacccn200M1.al         02004154 incorrect         Inlet Sampling HEIN Filtered Air         20191212.110500         2019121.044700           mosacccn200M1.al         021817.1         missing         Polaristem in Norwegian Territorial Waters         20200603.203600         202000608.203000           mosacccn200M1.al         021817.1         missing         Polaristem in Norwegian Territorial Waters         20200603.203600         202000608.203000           mosacccn200M1.al         020012.7         incorrect         Period of Disruption - Operator Worked with Mentor         20200466.000500         20200469.185500           mosacccpCM1.al         020012.7         incorrect         Possibile Pump Failure         20191214.040000         20200469.185500           mosacccpCM1.al         0200415.3         incorrect         Internal Pump Died         20191214.040000         20200468.024503         20200468.024503         20200468.024503         20200468.024503         20200468.024503         20200468.024503         20200468.024503         20200468.024503         20200468.024503         20200468.024503         20200468.024503         20200468.024503         20200468.024503         20200468.024503         20200468.024503         20200468.024503         20200468.024503	mosaosmetM1.a1	D210817.1	missina	Polarstern in Norwegian Territorial Waters	20200603.203600	20200608.200000
mosasscn200Mi.al         D200415.4         incorrect         Inlet Sampling HEPA Fibered Air         20191212.110500         20191214.044700           mosasscn200Ml.al         D210017.1         missing         Pelarstern in Norweglan Territorial Waters         20200013.203600         20200080.200000           mosasscn200Ml.al         D191111.1         incorrect         Data affected when the purge system is on.         2020011.040614         2020012.202110           mosasscnMl.al         D200724.1         incorrect         Period of Disruption - Operator Worked with Mentor         20200080.00000         20200080.20000         20200080.20000         20200080.20000         20200080.20000         20200080.20000         20200080.20000         20200080.20000         20200080.20000         20200080.20000         20200080.20000         20200080.20000         20200080.20000         20200080.20000         20200080.20000         20200080.20000         20200080.20000         20	mosaosmetM1.a1	D200227.6		<u> </u>	20191119.112000	20200117.132200
mosassecra20M1.a1   0210817.1   missing   Februstern in Norwegian Territorial Waters   20200603.203600   20200608.2030						
mosaosccn200M1.al         D1911111         Incorrect         Data affected when the purge system is on.         20200711.040614         20200712.020110           mosaoscoM1.al         D210817.1         missing         Polarstern in Norwegian Territorial Waters         202000603.003600         70200608.000000           mosaoscoM1.al         D200724.1         Incorrect         Period of Disruption - Operator Worked with Mentor         20200406.000000         20200409.185500           mosaoscoM1.al         D20012.7         incorrect         Possible Pump Failure         20191224.223000         20200106.100500         20200166.10500           mosaoscoM1.al         D200415.3         incorrect         Internal Pump Died         20191214.040000         20200168.13503           mosaoscoCM1.al         D210111.1         incorrect         Data affected when the purge system is on.         20200408.024503         20200408.033533           mosaoscoCM1.al         D210817.1         missing         Polarstern in Norwegian Territorial Waters         20200603.203600         20200608.20000           mosaoscopulM1.al         D210817.1         incorrect         Data affected when the purge system is on.         2019110.121093         2019110.121047           mosaoscopulM1.al         D210817.1         missing         Polarstern in Norwegian Territorial Waters         20200603.203600         20200603.						
mosaescoMl.a1         D210817.1         missing         Polarstem in Norwegian Territorial Waters         20200603.203600         20200608.200000           mosaescoMl.a1         D200724.1         Incorrect         Period of Disruption - Operator Worked with Mentor         20200406.000500         20200409.185500           mosaescoMl.a1         D200102.7         Incorrect         Possible Pump Failure         20191224.223000         20191016.140500           mosaescoMl.a1         D200415.3         Incorrect         Internal Pump Died         20191214.040000         20200168.145500           mosaescpcMl.a1         D210817.1         missing         Polarstem in Norwegian Territorial Waters         20200603.203600         20200608.200000           mosaescpcufMl.a1         D200415.4         incorrect         Iniet Sampling HEPA Filtered Air         20191212.110500         20191214.044700           mosaescpcufMl.a1         D210817.1         missing         Polarstem in Norwegian Territorial Waters         20200603.203600         20200608.200000           mosaescpcufMl.a1         D210817.1         missing         Polarstem in Norwegian Territorial Waters         2020063.203600         20200608.200000           mosaescpcufMl.a1         D210817.1         missing         Polarstem in Norwegian Territorial Waters         20200603.203600         20200603.203600         20200603.203600				<u>-</u>		
mosaoscoM1.a1         D200724.1         incorrect         Period of Disruption - Operator Worked with Mentor         20200406.000500         20200409.185500           mosaoscoM1.a1         D200102.7         incorrect         Possible Pump Fallure         20191224.223000         2019106.140500           mosaoscoM1.a1         D200415.3         incorrect         Internal Pump Died         20191214.040000         20200106.141500           mosaoscpfM1.a1         D19111.1         incorrect         Data affected when the purge system is on.         20200603.203600         20200608.203000           mosaoscpctM1.a1         D200415.4         incorrect         Inlet Sampling HEPA Filtered Air         20191212.110500         20191214.044700           mosaoscpcufM1.a1         D220502.2         missing         No Data         20200514.165234         20200520.080010           mosaoscpcufM1.a1         D191111.1         incorrect         Data affected when the purge system is on.         2019110.121039         2019110.121042           mosaoscpufM1.a1         D210817.1         missing         Polarstern in Norwegian Territorial Waters         20200603.203600         20200608.200000           mosaoshtdmaM1.a1         D21011.1         incorrect         Flow Issues         20191107.074636         20191107.091040           mosaoshtdmaM1.a1         D20015.4         i	mosaosccn200M1.a1	D191111.1	incorrect	Data affected when the purge system is on.	20200711.040614	20200712.202110
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         D200415.4         incorrect         Inlet Sampling HEPA Filtered Air         20191212.110500         20191214.044700           mosaoscpcufM1.a1         D20502.2         missing         No Data         20200514.165234         20200520.080102           mosaoscpcufM1.a1         D191111.1         incorrect         Data affected when the purge system is on.         20191110.121039         20191110.121042           mosaoscpcufM1.a1         D210817.1         missing         Polarstern in Norwegian Territorial Waters         20200603.203600         20200608.20000           mosaoshtdmaM1.a1         D191111.1         incorrect         Inlet Sampling HEPA Filtered Air         20191212.110500         2019124.044700           mosaoshtdmaM1.a1         D200415.4         incorrect         Inlet Sampling HEPA Filtered Air         2019107.074636         20191107.091040           mosaoshtdmaM1.a1         D20016.1	mosaoscoM1.a1	D210817.1	missing	Polarstern in Norwegian Territorial Waters	20200603.203600	20200608.200000
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         D200415.4         incorrect         Inlet Sampling HEPA Filtered Air         20191212.110500         20191214.044700           mosaoscpcufM1.a1         D200502.2         missing         No Data         20200603.203600         20200608.200000           mosaoscpcufM1.a1         D191111.1         incorrect         Data affected when the purge system is on.         20191110.121032         20191110.121042           mosaoscpcufM1.a1         D210817.1         missing         Polarstern in Norwegian Territorial Waters         20200603.203600         20200608.200000           mosaosthdmaM1.a1         D191111.1         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         20191107.09104           mosaoshtdmaM1.a1         D20017.4         incorrect         Flow Issues from Flooding         20200603.203600         20200608.200000           mosaoshtdmaM1.a1 <td< td=""><td>mosaoscoM1.a1</td><td>D200724.1</td><td>incorrect</td><td>Period of Disruption - Operator Worked with Mentor</td><td>20200406.000500</td><td>20200409.185500</td></td<>	mosaoscoM1.a1	D200724.1	incorrect	Period of Disruption - Operator Worked with Mentor	20200406.000500	20200409.185500
mosaoscpcfM1.a1         D19111.1         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           mosaoscpcufM1.a1         D200415.4         incorrect         Inlet Sampling HEPA Filtered Air         20191212.110500         20191214.044700           mosaoscpcufM1.a1         D20502.2         missing         No Data         20200514.165234         20200520.080102           mosaoscpcufM1.a1         D210817.1         missing         Polarstern in Norwegian Territorial Waters         20200603.203600         20200608.200000           mosaoscpcufM1.a1         D210817.1         missing         Polarstern in Norwegian Territorial Waters         20191212.110500         20191214.044700           mosaoshtdmaM1.a1         D191111.1         incorrect         Data affected when the purge system is on.         20191107.074636         20191107.09104           mosaoshtdmaM1.a1         D201817.1         missing         Polarstern in Norwegian Territorial Waters         20200603.203600         20200608.20000           mosaoshtdmaM1.a1         D200116.1         incorrect         Internal Flow Issues         20200106.100000         202016.100000           mosaoshtdma	mosaoscoM1.a1	D200102.7	incorrect	Possible Pump Failure	20191224.223000	20190106.140500
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           mosaoscpcufM1.a1         D220502.2         missing         No Data         20200514.165234         20200520.080102           mosaoscpcufM1.a1         D191111.1         incorrect         Data affected when the purge system is on.         20191110.121039         20191110.121042           mosaoscpcufM1.a1         D200415.4         incorrect         Inlet Sampling HEPA Filtered Air         20191212.110500         20200603.203600         20200608.200000           mosaoshtdmaM1.a1         D191111.1         incorrect         Data affected when the purge system is on.         20191107.074636         20191107.091040           mosaoshtdmaM1.a1         D20817.1         missing         Polarstern in Norwegian Territorial Waters         20200603.203600         20200608.200000           mosaoshtdmaM1.a1         D200710.4         incorrect         Flow Issues         2020016.100000         2020016.100000         20200260.000000           mosaoshtdmaM1.a1         D20016.1         incorrect         Internal Flow Issues         20191220.000000         20191212.110500 <td< td=""><td>mosaoscoM1.a1</td><td>D200415.3</td><td>incorrect</td><td>Internal Pump Died</td><td>20191214.040000</td><td>20200106.141500</td></td<>	mosaoscoM1.a1	D200415.3	incorrect	Internal Pump Died	20191214.040000	20200106.141500
mosaoscpcfM1.a1         D200415.4         incorrect         Inlet Sampling HEPA Filtered Air         20191212.110500         20191214.044700           mosaoscpcufM1.a1         D220502.2         missing         No Data         20200514.165234         20200520.080102           mosaoscpcufM1.a1         D191111.1         Incorrect         Data affected when the purge system is on.         20191110.121039         20191110.121042           mosaoscpcufM1.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         20200226.000000         20200226.000000         20200226.000000         20200226.000000         20200226.000000         20200226.000000         20200226.000000         20200226.000000         20200226.000000         20200226.000000         20200226.000000         20200226.000000         20200226.000000         20200226.000000         20200226.000000         20200226.000000	mosaoscpcfM1.a1	D191111.1	incorrect	Data affected when the purge system is on.	20200408.024503	20200408.033539
mosaoscpcufM1.a1         D220502.2         missing         No Data         20200514.165234         20200520.080102           mosaoscpcufM1.a1         D19111.1         incorrect         Data affected when the purge system is on.         20191110.121039         20191110.121039         20191110.121039         20191110.121032         20191110.121042         2000603.203600         20200608.200000         20200603.203600         20200608.200000         20191212.110500         20191214.044700         20191212.110500         20191214.044700         20191212.110500         20191217.091040         20191217.074636         20191107.091040         20191217.074636         20191107.091040         20191217.091040         20191207.074636         20191107.091040         20191207.074636         20191107.091040         20191207.091040         20191207.091040         20191207.091040         20191207.091040         20191207.091040         20191207.091040         20191207.091040         20191207.091040         20191207.091040         20191207.091040         20191207.091040         20191207.091040         20191207.091040         20191207.091000         20191207.091040         20191207.091000         20191207.091000         20191207.091000         20191207.091000         20191207.091000         20191207.091000         20191207.091000         20191207.091000         20191207.091000         201912120.091000         20191207.091000         201912120.001000	mosaoscpcfM1.a1	D210817.1	missing	Polarstern in Norwegian Territorial Waters	20200603.203600	20200608.200000
mosaoscpcufM1.a1         D191111.1         incorrect         Data affected when the purge system is on.         20191110.121039         20191110.121042           mosaoscpcufM1.a1         D210817.1         missing         Polarstern in Norwegian Territorial Waters         20200603.203600         20200608.200000           mosaoshtdmaM1.a1         D191111.1         incorrect         Inlet Sampling HEPA Filtered Air         20191212.110500         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         20191207.000000         2020016.100000         2020016.100000           mosaoshtdmaM1.a1         D20215.4         incorrect         Inlet Sampling HEPA Filtered Air         20191212.110500         20191214.044700           mosaosimpactorM1.a1         D220216.6         missing         No Data         20200821.142933         20200821.142933         20200824.151546           mosaosimpactorM1.a1         D210817.1         missing         Polarstern in Norwegian Territorial Waters         20200603.20	mosaoscpcfM1.a1	D200415.4	incorrect	Inlet Sampling HEPA Filtered Air	20191212.110500	20191214.044700
mosaoscpcufM1.a1         D210817.1         missing         Polarstern in Norwegian Territorial Waters         20200603.203600         20200608.200000           mosaoscpcufM1.a1         D200415.4         incorrect         Inlet Sampling HEPA Filtered Air         20191212.1110500         20191214.044700           mosaoshtdmaM1.a1         D19111.1         incorrect         Data affected when the purge system is on.         20191107.074636         20191107.091040           mosaoshtdmaM1.a1         D200710.4         incorrect         Flow Issues from Flooding         20200226.000000         20200620.000000           mosaoshtdmaM1.a1         D200116.1         incorrect         Internal Flow Issues         2020106.100000         2020016.100000           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         20200632.03600         20200608.200000           mosaosnephdryM1.a1         D19111.1         incorrect         Data affected when the purge system is on.         20191228.074320         20191229.082647           mosaososM1.a1         D210817.1	mosaoscpcufM1.a1	D220502.2	missing	No Data	20200514.165234	20200520.080102
mosaoscpcufM1.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         D200817.1         missing         Polarstern in Norwegian Territorial Waters         20200603.203600         20200608.200000           mosaoshtdmaM1.a1         D200710.4         incorrect         Flow Issues         2020016.100000         2020016.100000           mosaoshtdmaM1.a1         D200116.1         incorrect         Internal Flow Issues         20191207.000000         2020116.100000           mosaoshtdmaM1.a1         D191217.1         incorrect         Inlet Sampling HEPA Filtered Air         20191212.110500         20191210.000000           mosaosimpactorM1.a1         D200415.4         incorrect         Inlet Sampling HEPA Filtered Air         20191212.110500         20191214.044700           mosaosimpactorM1.a1         D210817.1         missing         Polarstern in Norwegian Territorial Waters         20200603.203600         20200608.200000           mosaosnephdryM1.a1         D210817.1         missing         Polarstern in Norwegian Territorial Waters         20200603.203600         20200608.200000           mosaoso3M1	mosaoscpcufM1.a1	D191111.1	incorrect	Data affected when the purge system is on.	20191110.121039	20191110.121042
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         20200106.100000         2020016.100000         2020016.100000           mosaoshtdmaM1.a1         D191217.1         incorrect         Flow Issues         20191207.00000         20191210.00000           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           mo	mosaoscpcufM1.a1	D210817.1	missing	Polarstern in Norwegian Territorial Waters	20200603.203600	20200608.200000
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         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         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	mosaoscpcufM1.a1	D200415.4	incorrect	Inlet Sampling HEPA Filtered Air	20191212.110500	20191214.044700
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         D210817.1         missing         Polarstern in Norwegian Territorial Waters         20200603.203600         20200608.200000           mosaososdM1.a1         D210817.1         missing         Polarstern in Norwegian Territorial Waters         20200603.203600         20200608.200000           mosaossmpsM1.a1         D191111.1         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         D200116.1         incorrect         Internal Flow Issues         20200106.100000         20200116.100000           mosaoshtdmaM1.a1         D191217.1         incorrect         Flow Issues         20191207.00000         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         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         Inlet Sampling HEPA Filtered Air         20191212.111003         20191212.111003         20191012.111025	mosaoshtdmaM1.a1	D210817.1	missing	Polarstern in Norwegian Territorial Waters	20200603.203600	20200608.200000
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           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	mosaoshtdmaM1.a1	D200710.4	incorrect	Flow Issues from Flooding	20200226.000000	20200620.000000
mosaoshtdmaM1.a1D200415.4incorrectInlet Sampling HEPA Filtered Air20191212.11050020191214.044700mosaosimpactorM1.a1D220216.6missingNo Data20200821.14293320200824.151546mosaosimpactorM1.a1D210817.1missingPolarstern in Norwegian Territorial Waters20200603.20360020200608.200000mosaosnephdryM1.a1D191111.1incorrectData affected when the purge system is on.20191228.07432020191229.082647mosaosnephdryM1.a1D210817.1missingPolarstern in Norwegian Territorial Waters20200603.20360020200608.200000mosaosnephdryM1.a1D200415.4incorrectInlet Sampling HEPA Filtered Air20191212.11050020191214.044700mosaoso3M1.a1D210817.1missingPolarstern in Norwegian Territorial Waters20200603.20360020200608.200000mosaossmpsM1.a1D191111.1incorrectData affected when the purge system is on.20191012.11100320191012.111025	mosaoshtdmaM1.a1	D200116.1	incorrect	Internal Flow Issues	20200106.100000	20200116.100000
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 D19111.1 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	mosaoshtdmaM1.a1	D191217.1	incorrect	Flow Issues	20191207.000000	20191210.000000
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	mosaoshtdmaM1.a1	D200415.4	incorrect	Inlet Sampling HEPA Filtered Air	20191212.110500	20191214.044700
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	mosaosimpactorM1.a1	D220216.6	missing	No Data	20200821.142933	20200824.151546
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	mosaosimpactorM1.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	mosaosnephdryM1.a1	D191111.1	incorrect	Data affected when the purge system is on.	20191228.074320	20191229.082647
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	mosaosnephdryM1.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	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 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

## ARM Data Quality Report (DQR) Table

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