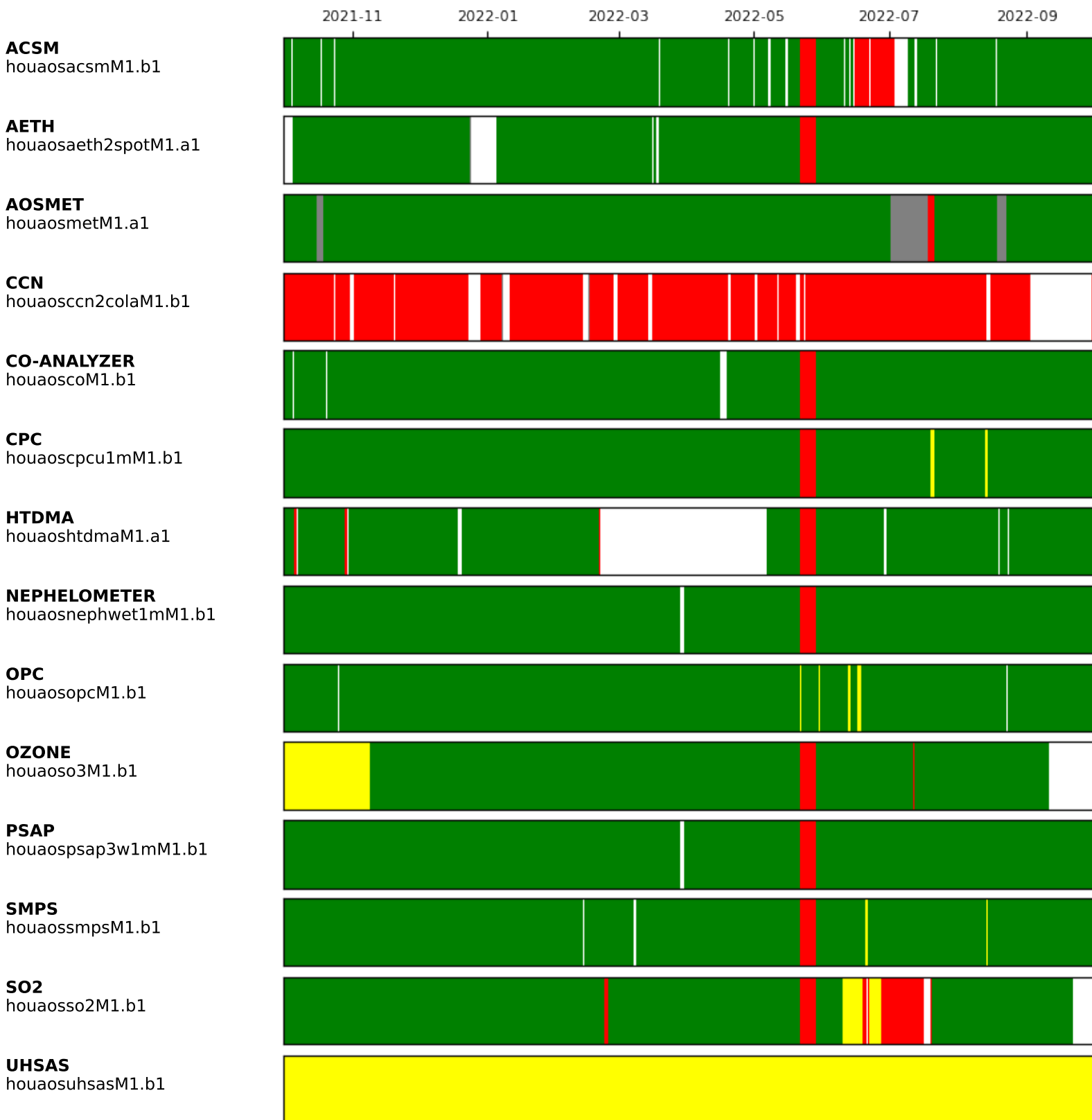


Houston, TX; AMF1 (main site for TRACER)
Atmospheric Radiation Measurement User Facility



ARM Data Quality Report (DQR) Table

Datastream	DQR	Quality	Subject	Start Date	End Date
houaosacsmM1.b1	D220815.5	Missing	No Data	2022-07-03T19:00:00	2022-07-09T17:29:59
houaosacsmM1.b1	D220602.3	Incorrect	Mentors at Site Working on Instruments	2022-05-21T14:00:00	2022-05-28T22:00:00
houaosacsmM1.b1	D220729.7	Incorrect	Incorrect Data	2022-06-15T12:00:00	2022-07-03T19:00:00
houaosaeth2spotM1.a1	D220602.3	Incorrect	Mentors at Site Working on Instruments	2022-05-21T14:00:00	2022-05-28T22:00:00
houaosaeth2spotM1.a1	D220304.2	Incorrect	System not Set Up nor Configured by the Mentor Team	2021-08-18T13:50:00	2021-09-12T23:59:59
houaosaeth2spotM1.a1	D211027.3	Missing	Missing Data 10/1 - 10/4	2021-10-01T00:00:00	2021-10-04T21:38:59
houaosaeth2spotM1.a1	D220119.1	Missing	Data Loss	2021-12-24T05:07:00	2022-01-04T21:41:59
houaosmetM1.a1	D220829.12	Missing	Missing Data	2022-08-18T20:59:00	2022-08-22T17:49:59
houaosmetM1.a1	D211022.2	Missing	Missing Data	2021-10-15T21:27:00	2021-10-18T22:07:59
houaosmetM1.a1	D220721.3	Missing	No Data	2022-07-01T18:55:00	2022-07-18T16:15:59
houaosmetM1.a1	D220721.4	Incorrect	Wind Direction Incorrect	2022-07-18T16:16:00	2022-07-21T18:13:00
houaosccn2colaM1.b1	D220907.1	Incorrect	Software Issues	2022-09-02T04:00:00	2022-10-01T00:00:00
houaosccn2colaM1.b1	D220210.24	Incorrect	Instrument Sampling Through a Filter	2022-02-09T20:00:00	2022-02-10T17:00:00
houaosccn2colaM1.b1	D220602.3	Incorrect	Mentors at Site Working on Instruments	2022-05-21T14:00:00	2022-05-28T22:00:00
houaosccn2colaM1.b1	D230526.1	Incorrect	Leak in the CCN Sample Line	2021-10-01T00:00:00	2022-10-01T00:00:00
houaosccn2colaM1.b1	D220422.3	Incorrect	Instrument Flooded	2022-04-19T11:45:00	2022-04-20T14:00:00
houaosccn2colaM1.b1	D220825.3	Incorrect	Water in the Flow Lines	2022-08-12T14:00:00	2022-08-15T14:16:59
houaosccn2colaM1.b1	D220314.3	Incorrect	Internal Flooding	2022-02-26T15:19:00	2022-02-28T23:59:59
houaosccn2colaM1.b1	D220308.4	Incorrect	Flow Issues	2022-02-25T16:00:00	2022-03-08T08:00:00
houaosccn2colaM1.b1	D220504.2	Incorrect	Internal Flooding	2022-04-30T11:00:00	2022-05-02T11:05:00
houaosccn2colaM1.b1	D220317.5	Incorrect	Internal Flooding	2022-03-14T12:00:00	2022-03-17T18:40:00
houaosccn2colaM1.b1	D211102.2	Incorrect	Instrument Stopped for Maintenance	2021-10-30T18:55:57	2021-11-02T17:00:45
houaosccn2colaM1.b1	D220314.4	Missing	Internal Flooding	2022-02-12T22:00:00	2022-02-15T23:59:59
houaosccn2colaM1.b1	D220103.1	Missing	Computer Hardware Failure	2021-12-23T08:00:00	2021-12-28T15:26:59
houaosccn2colaM1.b1	D220112.8	Missing	Instrument Offline due to Internal Flooding	2022-01-07T15:00:00	2022-01-10T18:00:00
houaoscoM1.b1	D220602.3	Incorrect	Mentors at Site Working on Instruments	2022-05-21T14:00:00	2022-05-28T22:00:00
houaospcu1mM1.b1	D220701.5	Incorrect	Questionable Data	2022-07-01T19:00:00	2022-07-01T19:30:00
houaospcu1mM1.b1	D211006.4	Incorrect	Questionable Data	2021-09-17T19:00:00	2021-09-21T14:00:00
houaospcu1mM1.b1	D220304.2	Incorrect	System not Set Up nor Configured by the Mentor Team	2021-08-18T13:50:00	2021-09-12T23:59:59
houaospcu1mM1.b1	D220602.3	Incorrect	Mentors at Site Working on Instruments	2022-05-21T14:00:00	2022-05-28T22:00:00

ARM Data Quality Report (DQR) Table

Datastream	DQR	Quality	Subject	Start Date	End Date
houaospcpu1mM1.b1	D220223.3	Incorrect	Questionable Data	2022-02-23T16:50:00	2022-02-23T17:50:00
houaospcpu1mM1.b1	D220815.4	Suspect	Instrument Vacuum Supply Issues	2022-08-13T14:00:00	2022-08-14T15:00:00
houaospcpu1mM1.b1	D211122.8	Suspect	Questionable Data	2021-11-18T20:00:53	2021-11-18T21:30:00
houaospcpu1mM1.b1	D230330.1	Suspect	Data Suspect	2022-07-19T12:00:00	2022-07-21T12:00:00
houaoshtdmaM1.a1	D220811.4	Incorrect	Flow Issues	2022-08-08T14:19:00	2022-08-08T17:27:14
houaoshtdmaM1.a1	D220509.3	Incorrect	Flow Issues	2022-02-19T23:00:00	2022-05-06T22:00:00
houaoshtdmaM1.a1	D211008.1	Incorrect	Leak in Compressed Air Line	2021-10-05T17:00:00	2021-10-07T14:30:00
houaoshtdmaM1.a1	D220602.3	Incorrect	Mentors at Site Working on Instruments	2022-05-21T14:00:00	2022-05-28T22:00:00
houaoshtdmaM1.a1	D220729.15	Incorrect	No Dry Air Supply	2022-05-30T13:00:00	2022-05-30T15:00:00
houaoshtdmaM1.a1	D211220.2	Missing	Pump Failure	2021-12-18T18:20:00	2021-12-20T16:20:00
houaosnephwet1mM1.b1	D220304.2	Incorrect	System not Set Up nor Configured by the Mentor Team	2021-08-18T13:50:00	2021-09-12T23:59:59
houaosnephwet1mM1.b1	D220602.3	Incorrect	Mentors at Site Working on Instruments	2022-05-21T14:00:00	2022-05-28T22:00:00
houaosopcM1.b1	D220705.2	Incorrect	Incorrect Data	2022-07-04T19:30:00	2022-07-04T21:30:30
houaosopcM1.b1	D230303.2	Suspect	Aerosol RH 50-70 %	2022-06-16T14:00:00	2022-06-18T12:00:00
houaosopcM1.b1	D220812.1	Suspect	High Aerosol RH	2022-05-21T21:00:00	2022-05-22T11:00:00
houaoso3M1.b1	D220304.2	Incorrect	System not Set Up nor Configured by the Mentor Team	2021-08-18T13:50:00	2021-09-12T23:59:59
houaoso3M1.b1	D220602.3	Incorrect	Mentors at Site Working on Instruments	2022-05-21T14:00:00	2022-05-28T22:00:00
houaoso3M1.b1	D220825.1	Incorrect	Incorrect Ozone Data -- No Flow and Low Pressure Affected Measurements	2022-07-11T14:21:00	2022-07-12T13:30:00
houaoso3M1.b1	D211202.2	Suspect	Questionable Data	2021-09-12T00:00:00	2021-11-08T18:50:00
houaospsap3w1mM1.b1	D220602.3	Incorrect	Mentors at Site Working on Instruments	2022-05-21T14:00:00	2022-05-28T22:00:00
houaospsap3w1mM1.b1	D220304.2	Incorrect	System not Set Up nor Configured by the Mentor Team	2021-08-18T13:50:00	2021-09-12T23:59:59
houaossmpsM1.b1	D220623.2	Suspect	Questionable Data	2022-06-20T12:00:00	2022-06-21T15:00:00
houaossmpsM1.b1	D220815.4	Suspect	Instrument Vacuum Supply Issues	2022-08-13T14:00:00	2022-08-14T15:00:00
houaossmpsM1.b1	D220825.2	Suspect	Instrument Check by Mentor	2022-08-25T15:15:00	2022-08-25T16:10:59
houaossmpsM1.b1	D230430.1	Suspect	Noisy Data	2022-03-21T14:00:00	2022-03-21T16:00:00
houaossmpsM1.b1	D220304.2	Incorrect	System not Set Up nor Configured by the Mentor Team	2021-08-18T13:50:00	2021-09-12T23:59:59
houaossmpsM1.b1	D220328.2	Incorrect	Incorrect Data	2022-03-21T15:45:00	2022-03-21T16:30:00
houaossmpsM1.b1	D220701.5	Incorrect	Questionable Data	2022-07-01T19:00:00	2022-07-01T19:30:00
houaossmpsM1.b1	D220301.2	Incorrect	Questionable Data	2022-03-01T17:30:00	2022-03-01T19:00:00
houaossmpsM1.b1	D220602.3	Incorrect	Mentors at Site Working on Instruments	2022-05-21T14:00:00	2022-05-28T22:00:00

ARM Data Quality Report (DQR) Table

Datastream	DQR	Quality	Subject	Start Date	End Date
houaossmpsM1.b1	D220706.3	Incorrect	Incorrect Data	2022-05-03T17:00:00	2022-05-03T19:00:00
houaosso2M1.b1	D220225.2	Incorrect	Pump Diaphragm Failed on SO2 Analyzer	2022-02-22T12:32:00	2022-02-24T17:00:00
houaosso2M1.b1	D220602.3	Incorrect	Mentors at Site Working on Instruments	2022-05-21T14:00:00	2022-05-28T22:00:00
houaosso2M1.b1	D220930.13	Incorrect	Failed Mirror Assembly	2022-06-27T15:00:00	2022-07-19T23:59:59
houaosso2M1.b1	D220930.11	Incorrect	Bad Data due to Failed Lamp	2022-06-19T00:00:00	2022-06-21T23:59:59
houaosso2M1.b1	D220304.2	Incorrect	System not Set Up nor Configured by the Mentor Team	2021-08-18T13:50:00	2021-09-12T23:59:59
houaosso2M1.b1	D220901.1	Suspect	Suspect Data	2022-06-10T00:00:00	2022-06-18T23:59:59
houaosso2M1.b1	D220930.12	Suspect	Suspect Data due to Ongoing Issues	2022-06-22T00:00:00	2022-06-27T14:59:59
houaosuhsasM1.b1	D220602.3	Incorrect	Mentors at Site Working on Instruments	2022-05-21T14:00:00	2022-05-28T22:00:00
houaosuhsasM1.b1	D220304.2	Incorrect	System not Set Up nor Configured by the Mentor Team	2021-08-18T13:50:00	2021-09-12T23:59:59
houaosuhsasM1.b1	D230718.4	Suspect	Potential Data Quality Issues above 550 nm	2021-04-14T20:00:00	2022-04-14T19:59:59
houaosuhsasM1.b1	D230718.5	Suspect	Potential Data Quality Issues above 550 nm	2021-09-07T19:10:46	2022-10-01T13:59:54

ARM Data Object Identifier (DOI) Table

Instrument	DOI
ACSM	Zawadowicz, M., Watson, T., Hayes, C., Allain, M., Salwen, C., & Behrens, B. Aerosol Chemical Speciation Monitor (AOSACSM), 2021-10-01 to 2022-10-01, ARM Mobile Facility (HOU), Houston, TX; AMF1 (main site for TRACER) (M1). Atmospheric Radiation Measurement (ARM) User Facility. https://doi.org/10.5439/1558768
AETH	Sedlacek, A., Salwen, C., Andrews, E., & Hayes, C. Aethalometer (AOSAETH2SPOT), 2021-10-01 to 2022-10-01, ARM Mobile Facility (HOU), Houston, TX; AMF1 (main site for TRACER) (M1). Atmospheric Radiation Measurement (ARM) User Facility. https://doi.org/10.5439/1211529
AOSMET	Kyrouac, J., & Tuftedal, M. Meteorological Measurements associated with the Aerosol Observing System (AOSMET), 2021-10-01 to 2022-10-01, ARM Mobile Facility (HOU), Houston, TX; AMF1 (main site for TRACER) (M1). Atmospheric Radiation Measurement (ARM) User Facility. https://doi.org/10.5439/1984920
CCN	Koontz, A., Uin, J., Andrews, E., Enekwizu, O., Hayes, C., & Salwen, C. Cloud Condensation Nuclei Particle Counter (AOSCCN2COLA), 2021-10-01 to 2022-10-01, ARM Mobile Facility (HOU), Houston, TX; AMF1 (main site for TRACER) (M1). Atmospheric Radiation Measurement (ARM) User Facility. https://doi.org/10.5439/1323892
CO-ANALYZER	Koontz, A., Springston, S., & Trojanowski, R. Carbon Monoxide Analyzer (AOSCO), 2021-10-01 to 2022-10-01, ARM Mobile Facility (HOU), Houston, TX; AMF1 (main site for TRACER) (M1). Atmospheric Radiation Measurement (ARM) User Facility. https://doi.org/10.5439/1250819
CPC	Flynn, C., Ermold, B., Andrews, E., Kuang, C., Hayes, C., Singh, A., & Salwen, C. Condensation Particle Counter (AOSPCF1M), 2021-10-01 to 2022-10-01, ARM Mobile Facility (HOU), Houston, TX; AMF1 (main site for TRACER) (M1). Atmospheric Radiation Measurement (ARM) User Facility. https://doi.org/10.5439/1398277
HTDMA	Uin, J., Cromwel, E., Hayes, C., & Salwen, C. Humidified Tandem Differential Mobility Analyzer (AOSHTDMA), 2021-10-01 to 2022-10-01, ARM Mobile Facility (HOU), Houston, TX; AMF1 (main site for TRACER) (M1). Atmospheric Radiation Measurement (ARM) User Facility. https://doi.org/10.5439/1095581
NEPHELOMETER	Uin, J., Salwen, C., Senum, G., Hayes, C., & Mayol Bracero, O. Nephelometer (AOSNEPHDRY1M), 2021-10-01 to 2022-10-01, ARM Mobile Facility (HOU), Houston, TX; AMF1 (main site for TRACER) (M1). Atmospheric Radiation Measurement (ARM) User Facility. https://doi.org/10.5439/1984586
OPC	Cromwell, E., Singh, A., & Kuang, C. Optical Particle Counter (AOSOPC), 2021-10-01 to 2022-10-01, ARM Mobile Facility (HOU), Houston, TX; AMF1 (main site for TRACER) (M1). Atmospheric Radiation Measurement (ARM) User Facility. https://doi.org/10.5439/1824224
OZONE	Springston, S., Koontz, A., & Trojanowski, R. Ozone Monitor (AOSO3), 2021-10-01 to 2022-10-01, ARM Mobile Facility (HOU), Houston, TX; AMF1 (main site for TRACER) (M1). Atmospheric Radiation Measurement (ARM) User Facility. https://doi.org/10.5439/1346692
PSAP	Ermold, B., Flynn, C., Trojanowski, R., Andrews, E., Hayes, C., Salwen, C., & Flynn, C. Particle Soot Absorption Photometer (AOSPSAP3W1M), 2021-10-01 to 2022-10-01, ARM Mobile Facility (HOU), Houston, TX; AMF1 (main site for TRACER) (M1). Atmospheric Radiation Measurement (ARM) User Facility. https://doi.org/10.5439/1225037
SMPS	Kuang, C., Singh, A., Howie, J., Salwen, C., & Hayes, C. Scanning mobility particle sizer (AOSSMPS), 2021-10-01 to 2022-10-01, ARM Mobile Facility (HOU), Houston, TX; AMF1 (main site for TRACER) (M1). Atmospheric Radiation Measurement (ARM) User Facility. https://doi.org/10.5439/1476898
SO2	Trojanowski, R. Sulfur Dioxide Monitor (AOSSO2), 2021-10-01 to 2022-10-01, ARM Mobile Facility (HOU), Houston, TX; AMF1 (main site for TRACER) (M1). Atmospheric Radiation Measurement (ARM) User Facility. https://doi.org/10.5439/1250820
UHSAS	Uin, J., Senum, G., Koontz, A., Flynn, C., Salwen, C., & Hayes, C. Ultra-High Sensitivity Aerosol Spectrometer (AOSUHSAS), 2021-10-01 to 2022-10-01, ARM Mobile Facility (HOU), Houston, TX; AMF1 (main site for TRACER) (M1). Atmospheric Radiation Measurement (ARM) User Facility. https://doi.org/10.5439/1409033