File #	Original File Name
1	PAC2001_SMMT_WOR_SULFATE-SIZE-DIST_AMS_20010826D6_V1.csv

Data Exchange Standard Version	Principal Investigator Name--last first	Principal Investigator Affiliation	File Contents Description--short long	Sampling Interval As Reported in Main Table	Sampling Frequency Of Data in Main Table	Quality Control Level	Organization Acronym	Organization Name	Data Usage Acknowledgement	Study Or Network Acronym	Study Or Network Name
NARSTO 2001/10/31 (2.213)	Worsnop ; Douglas	Aerodyne Research Inc.	AMS_Siz_Sul ; Aerodyne aerosol mass spectrometer size-resolved sulphate data	5 minute	Same as sampling interval	1	ENVCAN	Environment Cananda	Douglas R. Worsnop, Aerodyne Research Inc. 45 Manning Road, Billerica MA 01821-3978 USA worsnop@aerodyne.com	PAC2001	Pacific 2001

Country Code	State Or Province Code	Principal Investigator Contact Information	Co-investigator Name--last first	Co-investigator Affiliation	Name And Affiliation Of Person Who Generated This File	Date Of Last Modification To Data In Main Table	Name And Version Of Software Used To Create This File	Companion File Name format And Version	Date This File Generated archive Version Number
CA (CANADA)	BC	Douglas R. Worsnop, Aerodyne Research Inc. 45 Manning Road, Billerica MA 01821-3978 USA worsnop@aerodyne.com	Boudries ; Hacene	Aerodyne Research Inc.	James Allan, UMIST, UK	2002/02/26	MS Excel/2000	None ; Not applicable	2002/07/24 ; 1

Table Explanation Of Zero Or Negative Values	Table Explanation Of Reported Detection Limit Values	Table Explanation Of Reported Uncertainty	Table User Note	Table User Note2	Table User Note3	Table User Note4	Table Name	Table Focus
negative concentration measurements are due mostly to instrumental noise when the ambient concentration of the species was very low. They have not been removed from the dataset so as to not introduce a positive bias in averages of our data for longer time periods.	Not applicable						Sulphate_Size_Distribution	Surface--fixed

Site Information

Site ID	Name	State Province code	Latitude: decimal degree	Longitude: decimal degree	Sampling height above ground (m)	Ground elevation above sea level (m)	Site land use	Site location setting	Measurement start date	Measurement end date	Co-incident measurements	Study site ID	Lat lon accuracy
PC01CABCSMMT	Sumas Mountain, Vancouver	BC	49.05200	-122.24636	3.0	300.0	Forest	Rural	2001/08/26	2001/08/31		PC01CABCSMMT	.

NARSTO Standard Flags

Flag: NARSTO	Description
H1	Historical data that have not been assessed or validated
	Historical data that have not been assessed or validated
	Historical data that have not been assessed or validated
M1	Missing value because no value is available
	Missing value because no value is available
	Missing value because no value is available
M2	Missing value because invalidated by data originator
	Missing value because invalidated by data originator
	Missing value because invalidated by data originator
V0	Valid value
	Valid value
	Valid value
V1	Valid value but comprised wholly or partially of below detection limit data
	Valid value but comprised wholly or partially of below detection limit data
	Valid value but comprised wholly or partially of below detection limit data
V2	Valid estimated value
	Valid estimated value
	Valid estimated value
V3	Valid interpolated value
	Valid interpolated value
	Valid interpolated value
V4	Valid value despite failing to meet some QC or statistical criteria
	Valid value despite failing to meet some QC or statistical criteria
	Valid value despite failing to meet some QC or statistical criteria
V5	Valid value but qualified because of possible contamination (e.g., pollution source, laboratory contamination source)
	Valid value but qualified because of possible contamination (e.g., pollution source, laboratory contamination source)
	Valid value but qualified because of possible contamination (e.g., pollution source, laboratory contamination source)
V6	Valid value but qualified due to non-standard sampling conditions (e.g., instrument malfunction, sample handling)
	Valid value but qualified due to non-standard sampling conditions (e.g., instrument malfunction, sample handling)
	Valid value but qualified due to non-standard sampling conditions (e.g., instrument malfunction, sample handling)

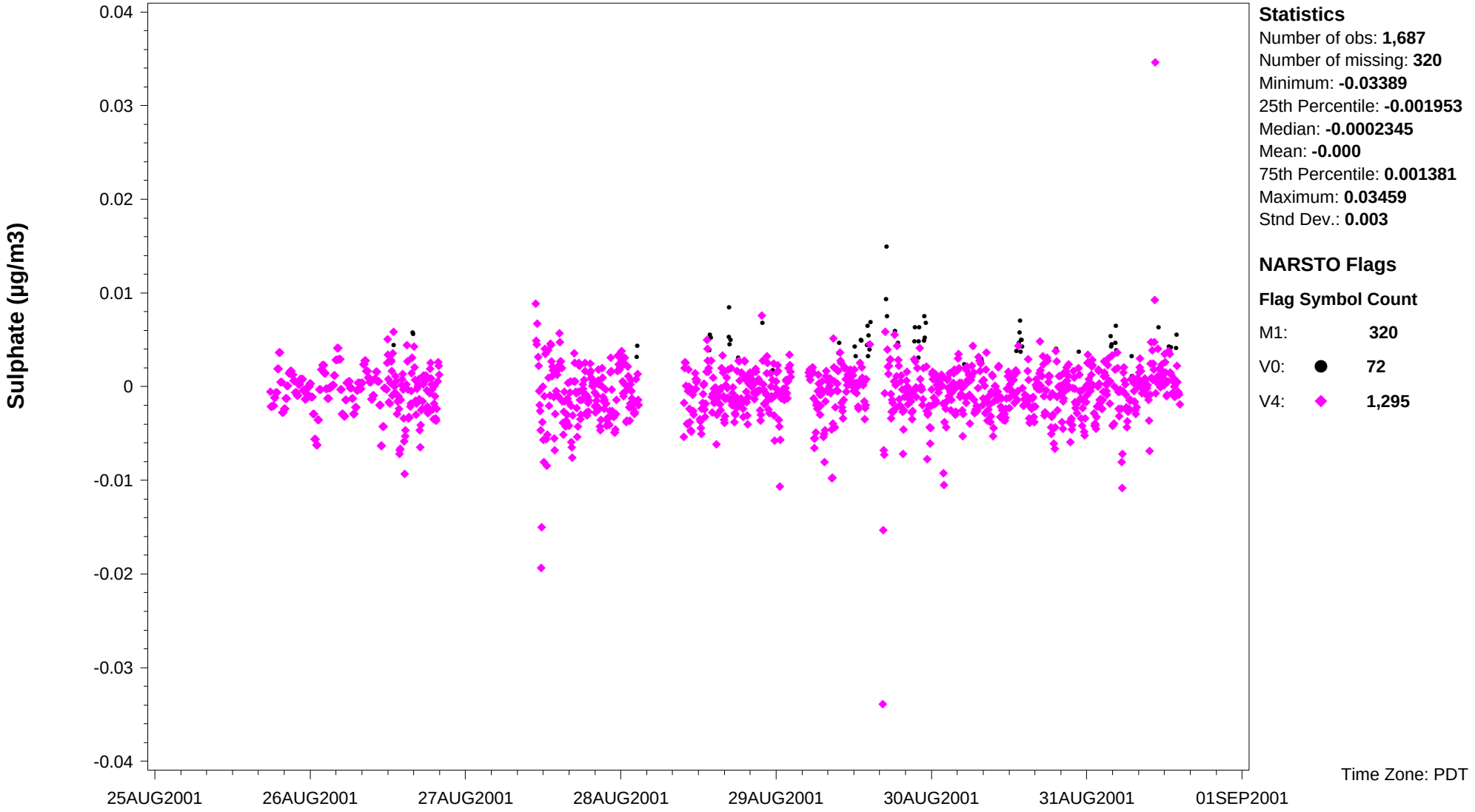
NARSTO Standard Flags

Flag: NARSTO	Description
V7	Valid value but set equal to the detection limit (DL) because the measured value was below the DL
	Valid value but set equal to the detection limit (DL) because the measured value was below the DL
	Valid value but set equal to the detection limit (DL) because the measured value was below the DL

NAtChem Time Series Plot 21MAR2005

Site ID: **PC01CABCSMMT** Variable name: **Sulphate** Common Name: **Sulphate** Units: **µg/m3** Sampling interval: **5 minute**
Sampling frequency: **Same as sampling interval** CAS ID: **C14808-79-8** Observation type: **Particles** Particle diameter--lower bound (UM): **0.02**
Particle diameter--upper bound (UM): **0.0211851** Particle diameter--median (UM): **0.0224404** Field sampling or measurement principle: **AMS**
Inlet type: **Cyclone** Volume standardization: **Ambient temperature and pressure** Sampling Height above ground (m): **5**
Instrument name and model number: **ARI AMS** Measurement principal investigator: **Douglas Worsnop**

Site Name:**Sumas Mountain, Vancouver, British Columbia** Latitude:**49.052 deg.** Longitude:**-122.24636 deg.** Start Date:**2001-08-26** End Date:**2001-08-31**



Statistics
Number of obs: **1,687**
Number of missing: **320**
Minimum: **-0.03389**
25th Percentile: **-0.001953**
Median: **-0.0002345**
Mean: **-0.000**
75th Percentile: **0.001381**
Maximum: **0.03459**
Stnd Dev.: **0.003**

NARSTO Flags

Flag Symbol Count

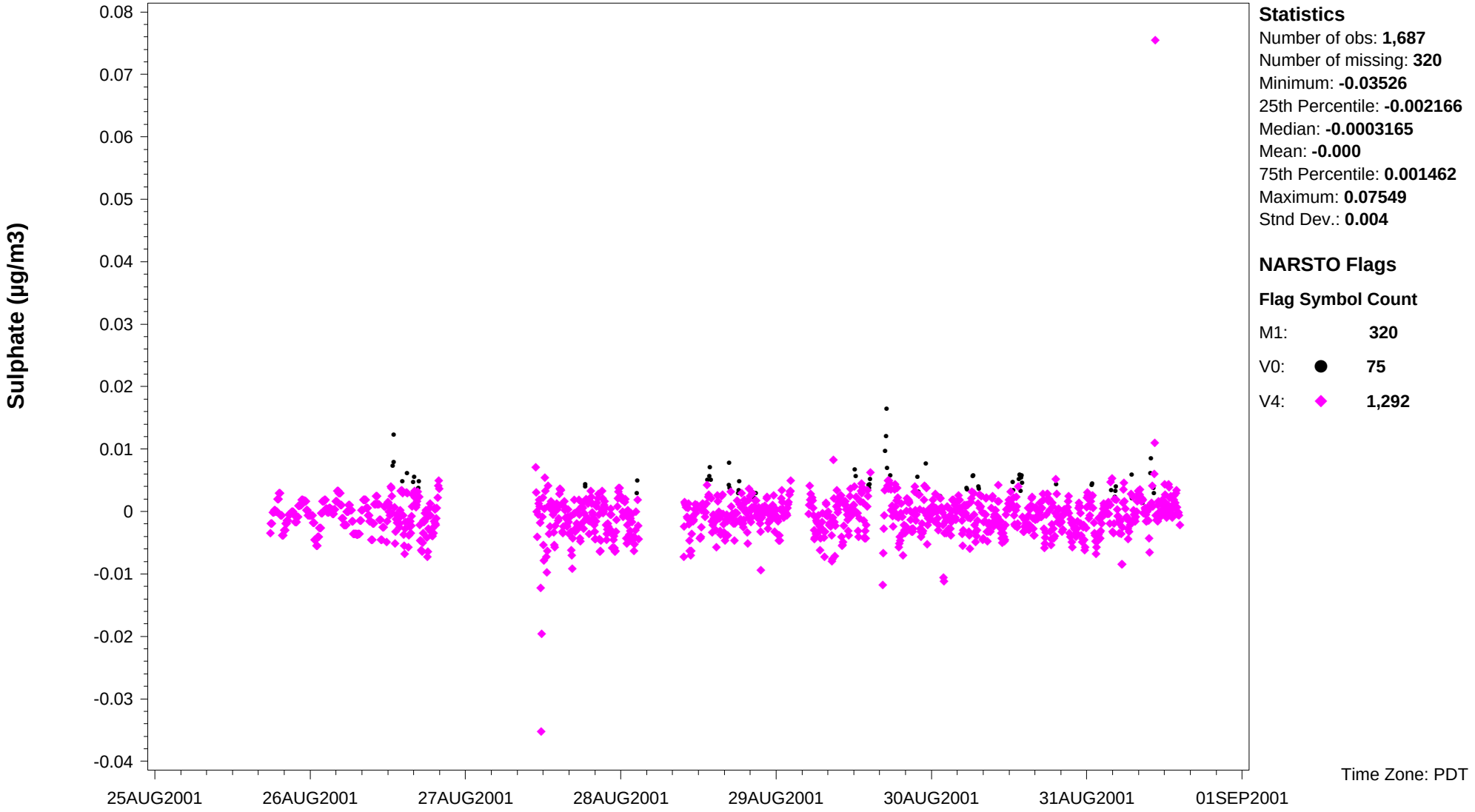
M1: **320**
V0: **72**
V4: **1,295**

File Name: NATCHEM_PAC2001_SMMT_WOR_SULFATE-SIZE-DIST_AMS_20010826D6_V1

NAtChem Time Series Plot **21MAR2005**

Site ID: **PC01CABCSMMT** Variable name: **Sulphate** Common Name: **Sulphate** Units: **µg/m3** Sampling interval: **5 minute**
Sampling frequency: **Same as sampling interval** CAS ID: **C14808-79-8** Observation type: **Particles** Particle diameter--lower bound (UM): **0.0224404**
Particle diameter--upper bound (UM): **0.02377** Particle diameter--median (UM): **0.0251785** Field sampling or measurement principle: **AMS**
Inlet type: **Cyclone** Volume standardization: **Ambient temperature and pressure** Sampling Height above ground (m): **5**
Instrument name and model number: **ARI AMS** Measurement principal investigator: **Douglas Worsnop**

Site Name:**Sumas Mountain, Vancouver, British Columbia** Latitude:**49.052 deg.** Longitude:**-122.24636 deg.** Start Date:**2001-08-26** End Date:**2001-08-31**



Statistics
Number of obs: **1,687**
Number of missing: **320**
Minimum: **-0.03526**
25th Percentile: **-0.002166**
Median: **-0.0003165**
Mean: **-0.000**
75th Percentile: **0.001462**
Maximum: **0.07549**
Stnd Dev.: **0.004**

NARSTO Flags

Flag Symbol Count

M1: **320**
V0: **75**
V4: **1,292**

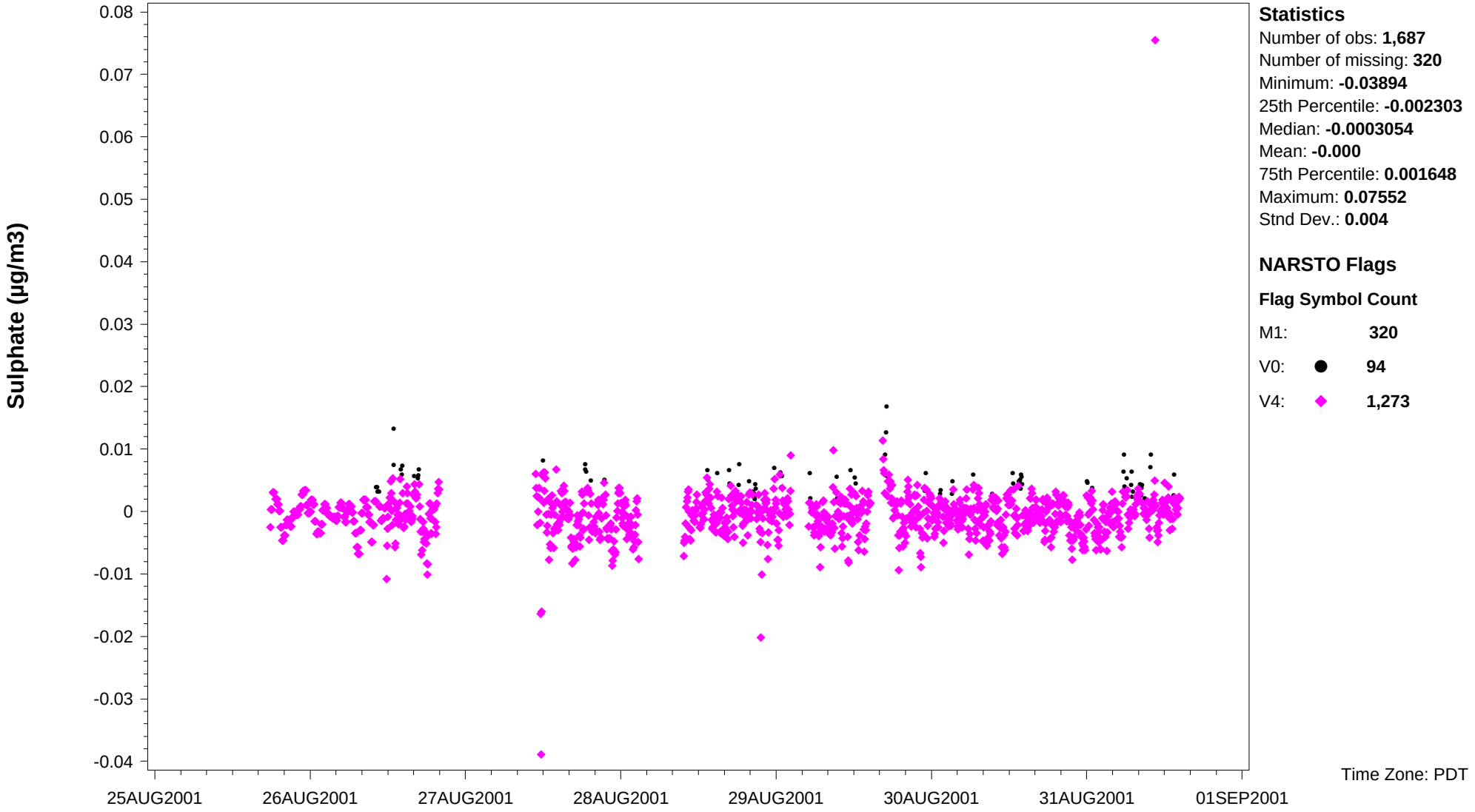
Time Zone: PDT

File Name: NATCHEM_PAC2001_SMMT_WOR_SULFATE-SIZE-DIST_AMS_20010826D6_V1

NAtChem Time Series Plot 21MAR2005

Site ID: **PC01CABCSMMT** Variable name: **Sulphate** Common Name: **Sulphate** Units: **µg/m3** Sampling interval: **5 minute**
Sampling frequency: **Same as sampling interval** CAS ID: **C14808-79-8** Observation type: **Particles** Particle diameter--lower bound (UM): **0.0251785**
Particle diameter--upper bound (UM): **0.0266704** Particle diameter--median (UM): **0.0282508** Field sampling or measurement principle: **AMS**
Inlet type: **Cyclone** Volume standardization: **Ambient temperature and pressure** Sampling Height above ground (m): **5**
Instrument name and model number: **ARI AMS** Measurement principal investigator: **Douglas Worsnop**

Site Name:**Sumas Mountain, Vancouver, British Columbia** Latitude:**49.052 deg.** Longitude:**-122.24636 deg.** Start Date:**2001-08-26** End Date:**2001-08-31**



Statistics
Number of obs: **1,687**
Number of missing: **320**
Minimum: **-0.03894**
25th Percentile: **-0.002303**
Median: **-0.0003054**
Mean: **-0.000**
75th Percentile: **0.001648**
Maximum: **0.07552**
Stnd Dev.: **0.004**

NARSTO Flags

Flag Symbol	Count
M1:	**320**
V0: ●	**94**
V4: ◆	**1,273**

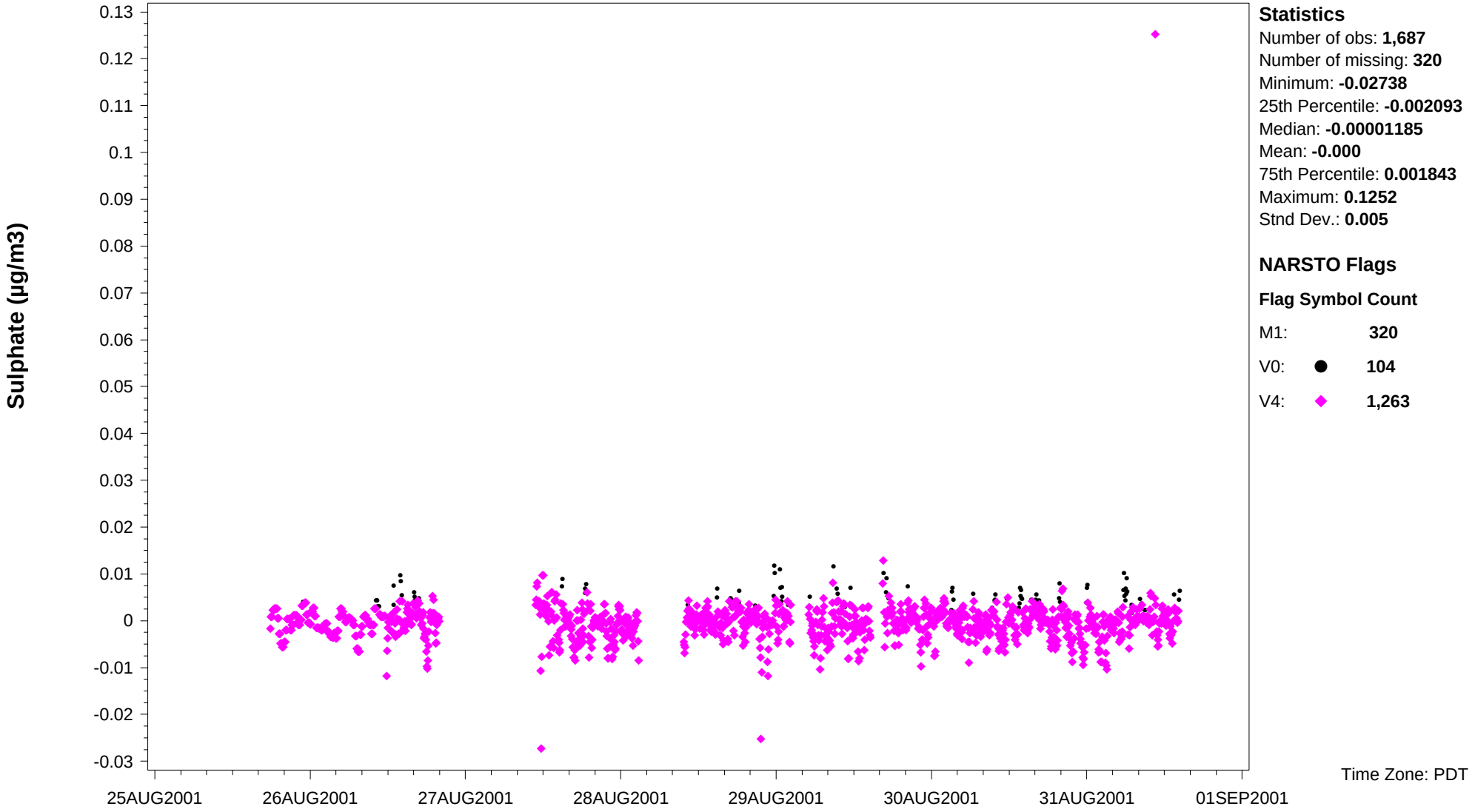
Time Zone: PDT

File Name: NATCHEM_PAC2001_SMMT_WOR_SULFATE-SIZE-DIST_AMS_20010826D6_V1

NAtChem Time Series Plot 21MAR2005

Site ID: **PC01CABCSMMT** Variable name: **Sulphate** Common Name: **Sulphate** Units: **µg/m3** Sampling interval: **5 minute**
Sampling frequency: **Same as sampling interval** CAS ID: **C14808-79-8** Observation type: **Particles** Particle diameter--lower bound (UM): **0.0282508**
Particle diameter--upper bound (UM): **0.0299247** Particle diameter--median (UM): **0.0316979** Field sampling or measurement principle: **AMS**
Inlet type: **Cyclone** Volume standardization: **Ambient temperature and pressure** Sampling Height above ground (m): **5**
Instrument name and model number: **ARI AMS** Measurement principal investigator: **Douglas Worsnop**

Site Name:**Sumas Mountain, Vancouver, British Columbia** Latitude:**49.052 deg.** Longitude:**-122.24636 deg.** Start Date:**2001-08-26** End Date:**2001-08-31**



Statistics
Number of obs: **1,687**
Number of missing: **320**
Minimum: **-0.02738**
25th Percentile: **-0.002093**
Median: **-0.00001185**
Mean: **-0.000**
75th Percentile: **0.001843**
Maximum: **0.1252**
Stnd Dev.: **0.005**

NARSTO Flags

Flag Symbol	Count
M1:	**320**
V0: ●	**104**
V4: ◆	**1,263**

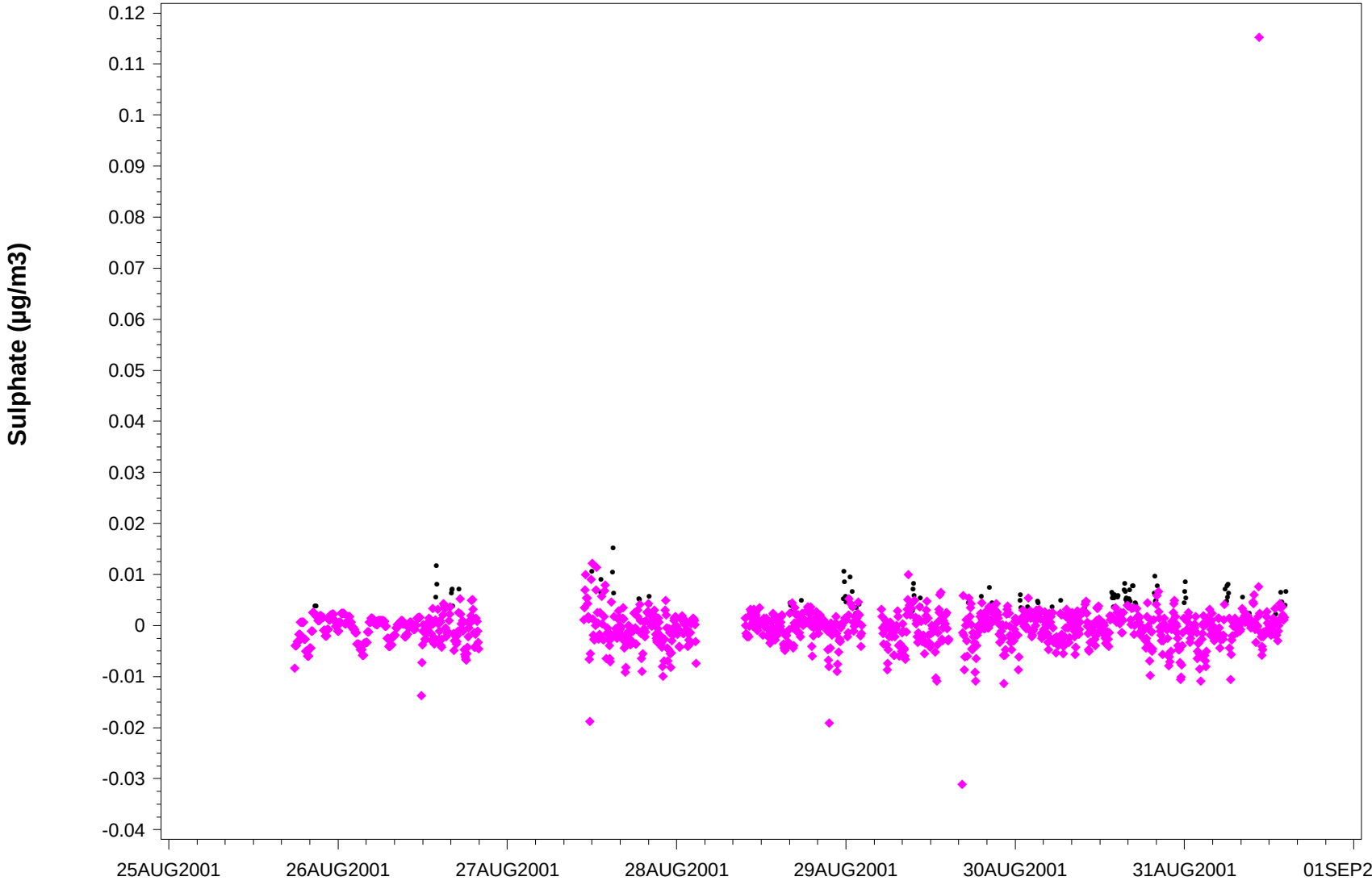
Time Zone: PDT

File Name: NATCHEM_PAC2001_SMMT_WOR_SULFATE-SIZE-DIST_AMS_20010826D6_V1

NAtChem Time Series Plot **21MAR2005**

Site ID: **PC01CABCSMMT** Variable name: **Sulphate** Common Name: **Sulphate** Units: **µg/m3** Sampling interval: **5 minute**
Sampling frequency: **Same as sampling interval** CAS ID: **C14808-79-8** Observation type: **Particles** Particle diameter--lower bound (UM): **0.0316979**
Particle diameter--upper bound (UM): **0.0335761** Particle diameter--median (UM): **0.0355656** Field sampling or measurement principle: **AMS**
Inlet type: **Cyclone** Volume standardization: **Ambient temperature and pressure** Sampling Height above ground (m): **5**
Instrument name and model number: **ARI AMS** Measurement principal investigator: **Douglas Worsnop**

Site Name:**Sumas Mountain, Vancouver, British Columbia** Latitude:**49.052 deg.** Longitude:**-122.24636 deg.** Start Date:**2001-08-26** End Date:**2001-08-31**



Statistics
Number of obs: **1,687**
Number of missing: **320**
Minimum: **-0.03119**
25th Percentile: **-0.002032**
Median: **0.00006103**
Mean: **-0.000**
75th Percentile: **0.00175**
Maximum: **0.1152**
Stnd Dev.: **0.005**

NARSTO Flags

Flag Symbol	Count
M1:	**320**
V0: ●	**107**
V4: ◆	**1,260**

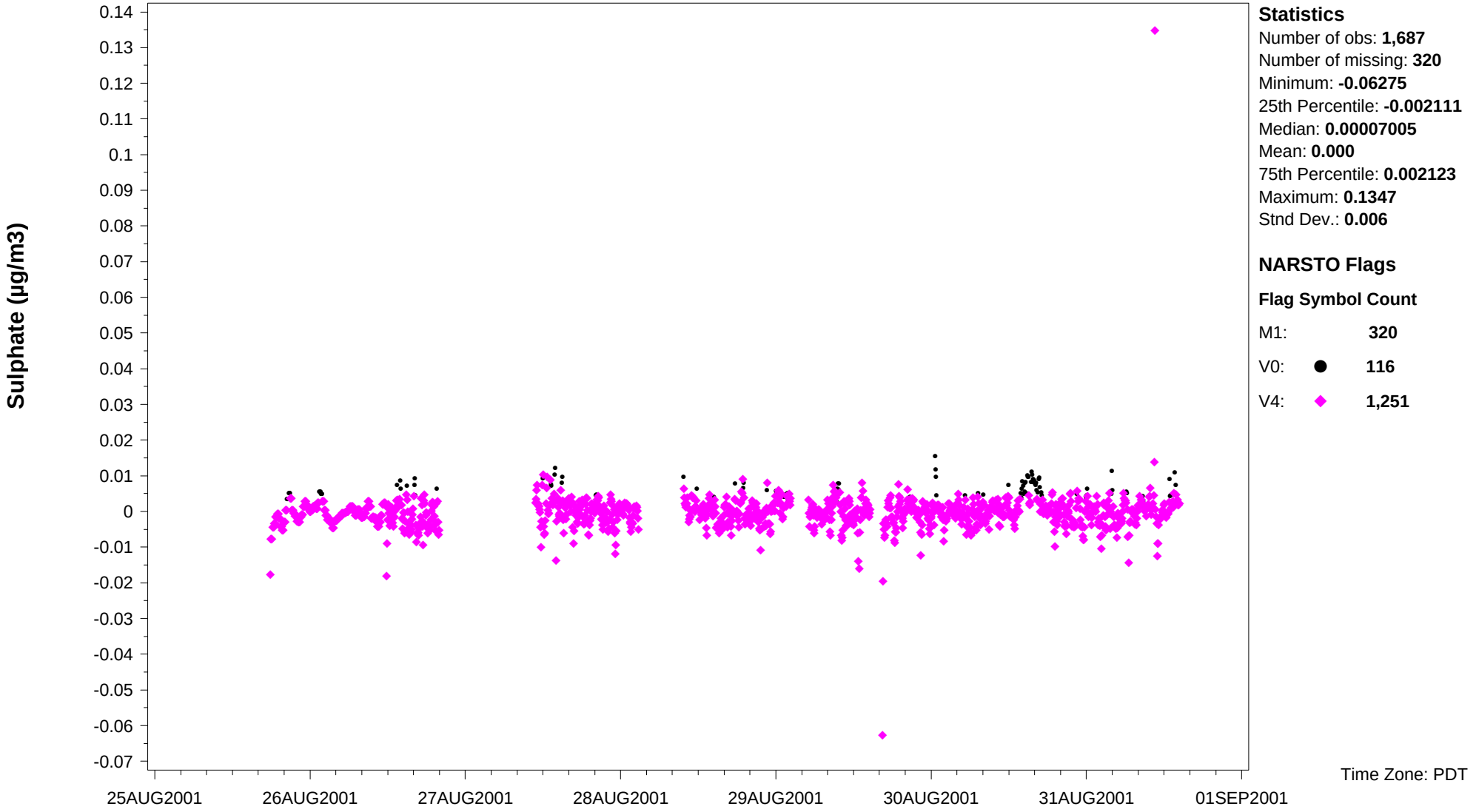
Time Zone: PDT

File Name: NATCHEM_PAC2001_SMMT_WOR_SULFATE-SIZE-DIST_AMS_20010826D6_V1

NAtChem Time Series Plot **21MAR2005**

Site ID: **PC01CABCSMMT** Variable name: **Sulphate** Common Name: **Sulphate** Units: **µg/m3** Sampling interval: **5 minute**
Sampling frequency: **Same as sampling interval** CAS ID: **C14808-79-8** Observation type: **Particles** Particle diameter--lower bound (UM): **0.0355656**
Particle diameter--upper bound (UM): **0.037673** Particle diameter--median (UM): **0.0399052** Field sampling or measurement principle: **AMS**
Inlet type: **Cyclone** Volume standardization: **Ambient temperature and pressure** Sampling Height above ground (m): **5**
Instrument name and model number: **ARI AMS** Measurement principal investigator: **Douglas Worsnop**

Site Name:**Sumas Mountain, Vancouver, British Columbia** Latitude:**49.052 deg.** Longitude:**-122.24636 deg.** Start Date:**2001-08-26** End Date:**2001-08-31**

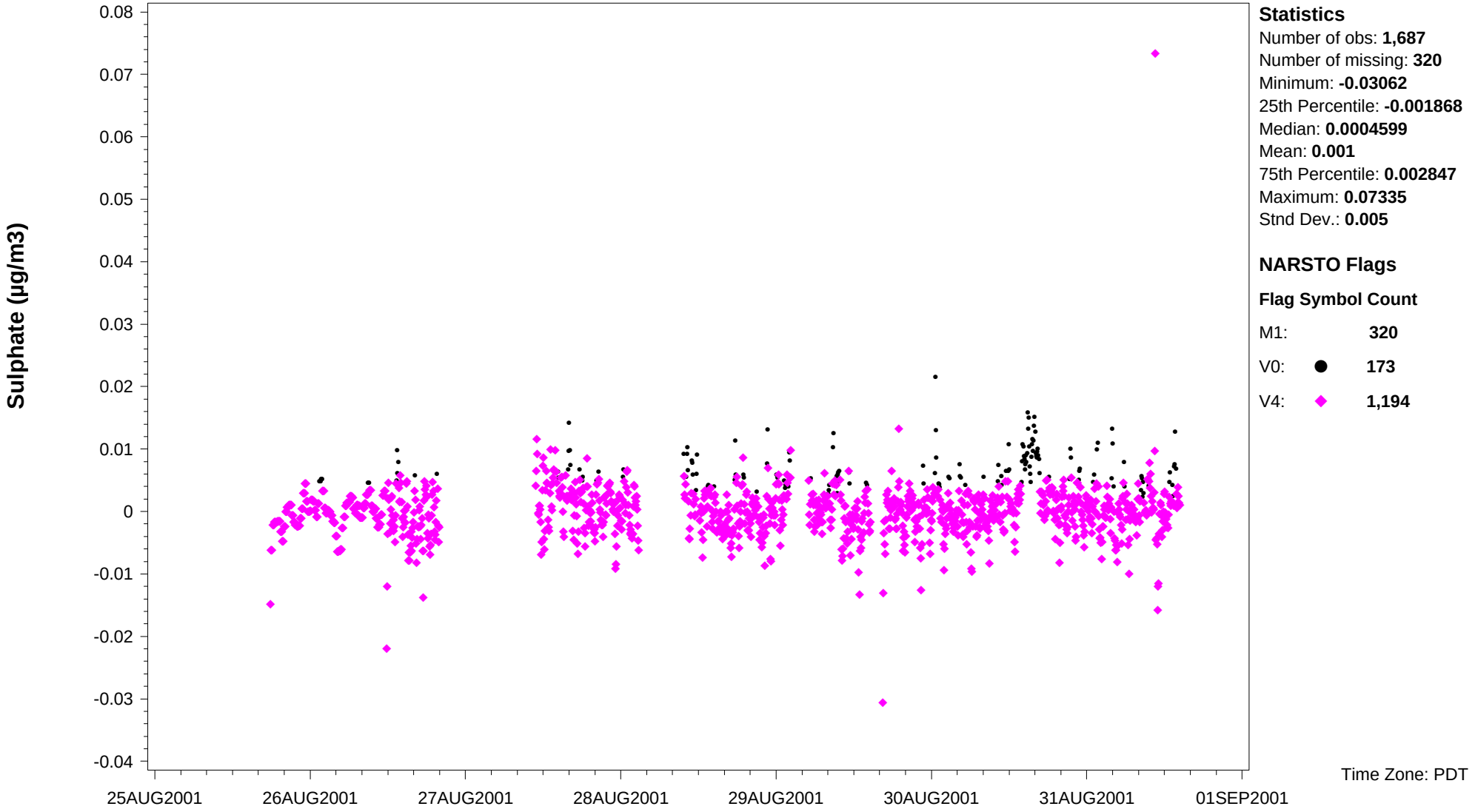


File Name: NATCHEM_PAC2001_SMMT_WOR_SULFATE-SIZE-DIST_AMS_20010826D6_V1

NAtChem Time Series Plot 21MAR2005

Site ID: **PC01CABCSMMT** Variable name: **Sulphate** Common Name: **Sulphate** Units: **µg/m3** Sampling interval: **5 minute**
Sampling frequency: **Same as sampling interval** CAS ID: **C14808-79-8** Observation type: **Particles** Particle diameter--lower bound (UM): **0.0399052**
Particle diameter--upper bound (UM): **0.0422698** Particle diameter--median (UM): **0.0447744** Field sampling or measurement principle: **AMS**
Inlet type: **Cyclone** Volume standardization: **Ambient temperature and pressure** Sampling Height above ground (m): **5**
Instrument name and model number: **ARI AMS** Measurement principal investigator: **Douglas Worsnop**

Site Name:**Sumas Mountain, Vancouver, British Columbia** Latitude:**49.052 deg.** Longitude:**-122.24636 deg.** Start Date:**2001-08-26** End Date:**2001-08-31**



Statistics
Number of obs: **1,687**
Number of missing: **320**
Minimum: **-0.03062**
25th Percentile: **-0.001868**
Median: **0.0004599**
Mean: **0.001**
75th Percentile: **0.002847**
Maximum: **0.07335**
Stnd Dev.: **0.005**

NARSTO Flags

Flag Symbol Count

M1: **320**
V0: **173**
V4: **1,194**

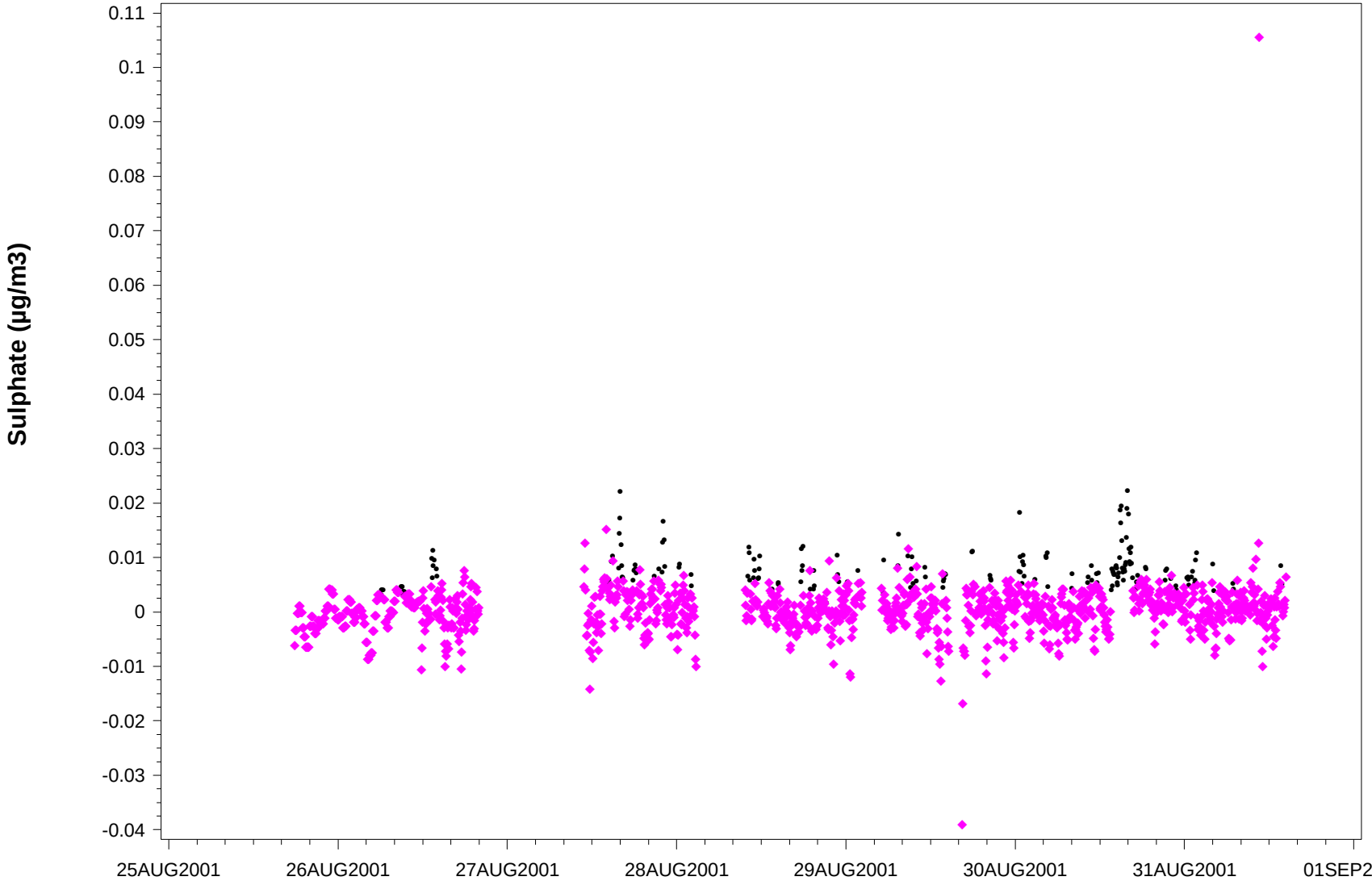
Time Zone: PDT

File Name: NATCHEM_PAC2001_SMMT_WOR_SULFATE-SIZE-DIST_AMS_20010826D6_V1

NAtChem Time Series Plot **21MAR2005**

Site ID: **PC01CABCSMMT** Variable name: **Sulphate** Common Name: **Sulphate** Units: **µg/m3** Sampling interval: **5 minute**
Sampling frequency: **Same as sampling interval** CAS ID: **C14808-79-8** Observation type: **Particles** Particle diameter--lower bound (UM): **0.0447744**
Particle diameter--upper bound (UM): **0.0474275** Particle diameter--median (UM): **0.0502377** Field sampling or measurement principle: **AMS**
Inlet type: **Cyclone** Volume standardization: **Ambient temperature and pressure** Sampling Height above ground (m): **5**
Instrument name and model number: **ARI AMS** Measurement principal investigator: **Douglas Worsnop**

Site Name:**Sumas Mountain, Vancouver, British Columbia** Latitude:**49.052 deg.** Longitude:**-122.24636 deg.** Start Date:**2001-08-26** End Date:**2001-08-31**



Statistics
Number of obs: **1,687**
Number of missing: **320**
Minimum: **-0.039**
25th Percentile: **-0.001475**
Median: **0.0009516**
Mean: **0.001**
75th Percentile: **0.003608**
Maximum: **0.1056**
Stnd Dev.: **0.005**

NARSTO Flags

Flag Symbol	Count
M1:	**320**
V0: ●	**196**
V4: ◆	**1,171**

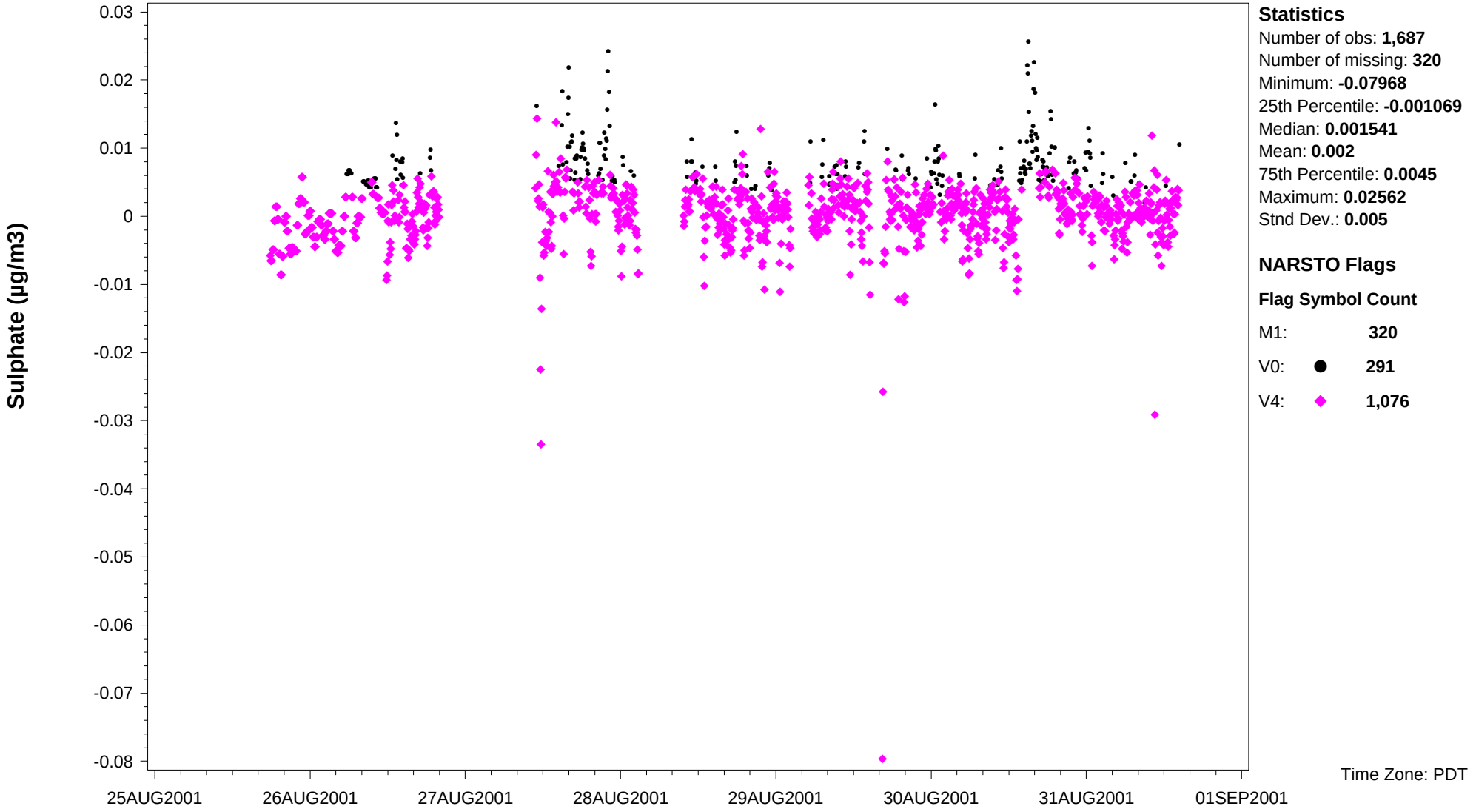
Time Zone: PDT

File Name: NATCHEM_PAC2001_SMMT_WOR_SULFATE-SIZE-DIST_AMS_20010826D6_V1

NAtChem Time Series Plot **21MAR2005**

Site ID: **PC01CABCSMMT** Variable name: **Sulphate** Common Name: **Sulphate** Units: **µg/m3** Sampling interval: **5 minute**
Sampling frequency: **Same as sampling interval** CAS ID: **C14808-79-8** Observation type: **Particles** Particle diameter--lower bound (UM): **0.0502377**
Particle diameter--upper bound (UM): **0.0532145** Particle diameter--median (UM): **0.0563677** Field sampling or measurement principle: **AMS**
Inlet type: **Cyclone** Volume standardization: **Ambient temperature and pressure** Sampling Height above ground (m): **5**
Instrument name and model number: **ARI AMS** Measurement principal investigator: **Douglas Worsnop**

Site Name:**Sumas Mountain, Vancouver, British Columbia** Latitude:**49.052 deg.** Longitude:**-122.24636 deg.** Start Date:**2001-08-26** End Date:**2001-08-31**



Statistics
Number of obs: **1,687**
Number of missing: **320**
Minimum: **-0.07968**
25th Percentile: **-0.001069**
Median: **0.001541**
Mean: **0.002**
75th Percentile: **0.0045**
Maximum: **0.02562**
Stnd Dev.: **0.005**

NARSTO Flags

Flag Symbol Count

M1: **320**
V0: **291**
V4: **1,076**

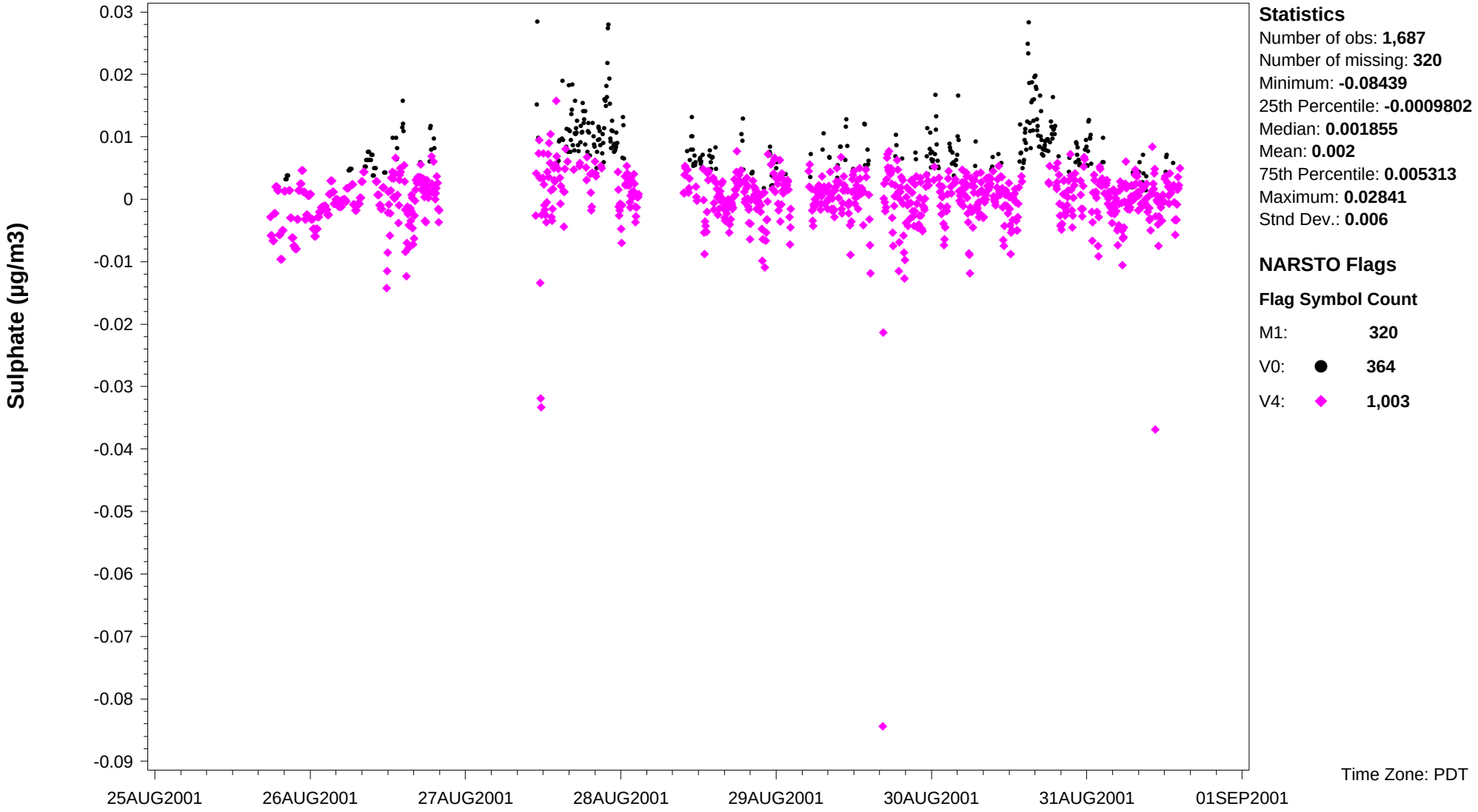
Time Zone: PDT

File Name: NATCHEM_PAC2001_SMMT_WOR_SULFATE-SIZE-DIST_AMS_20010826D6_V1

NAtChem Time Series Plot **21MAR2005**

Site ID: **PC01CABCSMMT** Variable name: **Sulphate** Common Name: **Sulphate** Units: **µg/m3** Sampling interval: **5 minute**
Sampling frequency: **Same as sampling interval** CAS ID: **C14808-79-8** Observation type: **Particles** Particle diameter--lower bound (UM): **0.0563677**
Particle diameter--upper bound (UM): **0.0597077** Particle diameter--median (UM): **0.0632455** Field sampling or measurement principle: **AMS**
Inlet type: **Cyclone** Volume standardization: **Ambient temperature and pressure** Sampling Height above ground (m): **5**
Instrument name and model number: **ARI AMS** Measurement principal investigator: **Douglas Worsnop**

Site Name:**Sumas Mountain, Vancouver, British Columbia** Latitude:**49.052 deg.** Longitude:**-122.24636 deg.** Start Date:**2001-08-26** End Date:**2001-08-31**



Statistics
Number of obs: **1,687**
Number of missing: **320**
Minimum: **-0.08439**
25th Percentile: **-0.0009802**
Median: **0.001855**
Mean: **0.002**
75th Percentile: **0.005313**
Maximum: **0.02841**
Stnd Dev.: **0.006**

NARSTO Flags

Flag Symbol	Count
M1:	**320**
V0: ●	**364**
V4: ◆	**1,003**

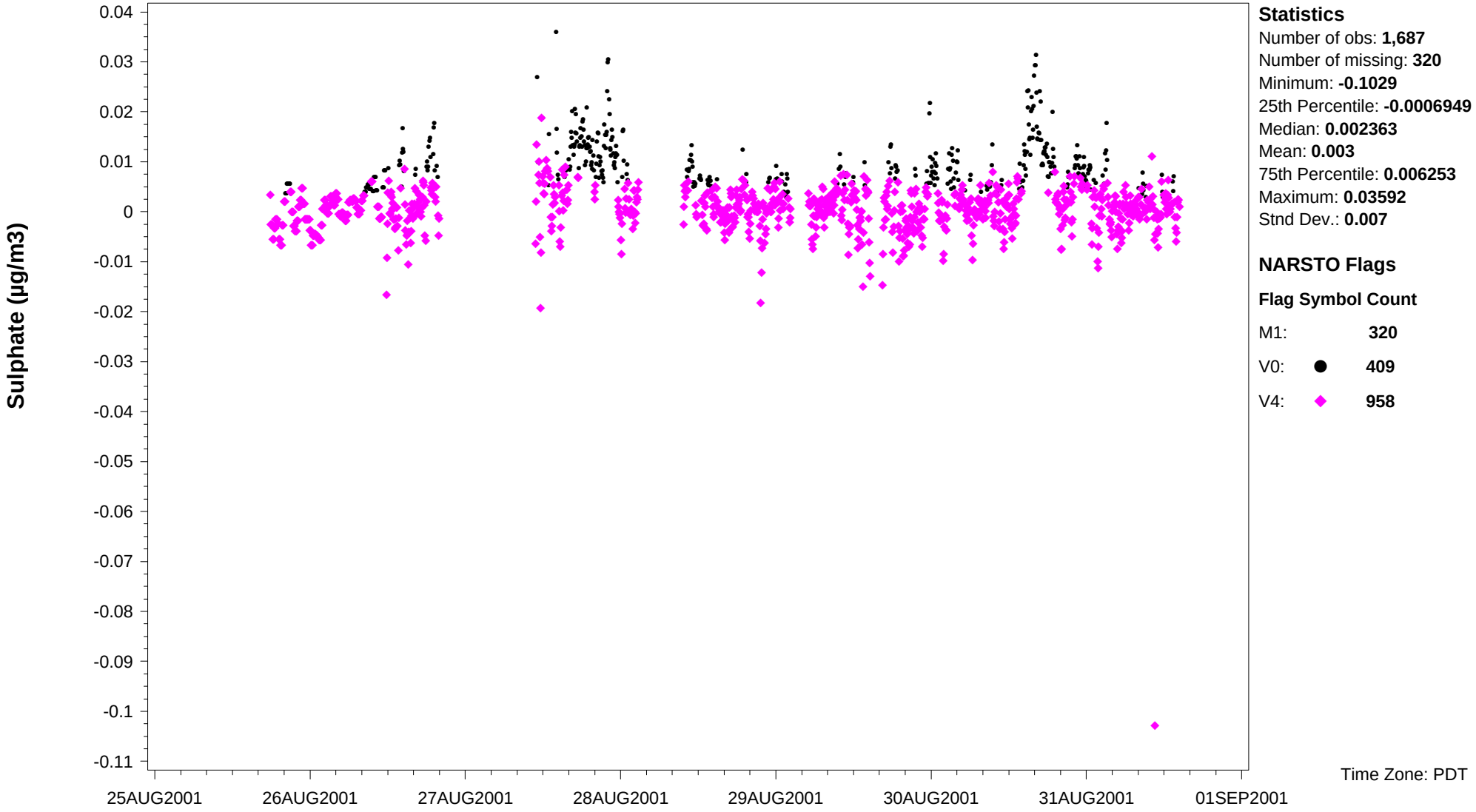
Time Zone: PDT

File Name: NATCHEM_PAC2001_SMMT_WOR_SULFATE-SIZE-DIST_AMS_20010826D6_V1

NAtChem Time Series Plot 21MAR2005

Site ID: **PC01CABCSMMT** Variable name: **Sulphate** Common Name: **Sulphate** Units: **µg/m3** Sampling interval: **5 minute**
Sampling frequency: **Same as sampling interval** CAS ID: **C14808-79-8** Observation type: **Particles** Particle diameter--lower bound (UM): **0.0632455**
Particle diameter--upper bound (UM): **0.0669931** Particle diameter--median (UM): **0.0709627** Field sampling or measurement principle: **AMS**
Inlet type: **Cyclone** Volume standardization: **Ambient temperature and pressure** Sampling Height above ground (m): **5**
Instrument name and model number: **ARI AMS** Measurement principal investigator: **Douglas Worsnop**

Site Name:**Sumas Mountain, Vancouver, British Columbia** Latitude:**49.052 deg.** Longitude:**-122.24636 deg.** Start Date:**2001-08-26** End Date:**2001-08-31**

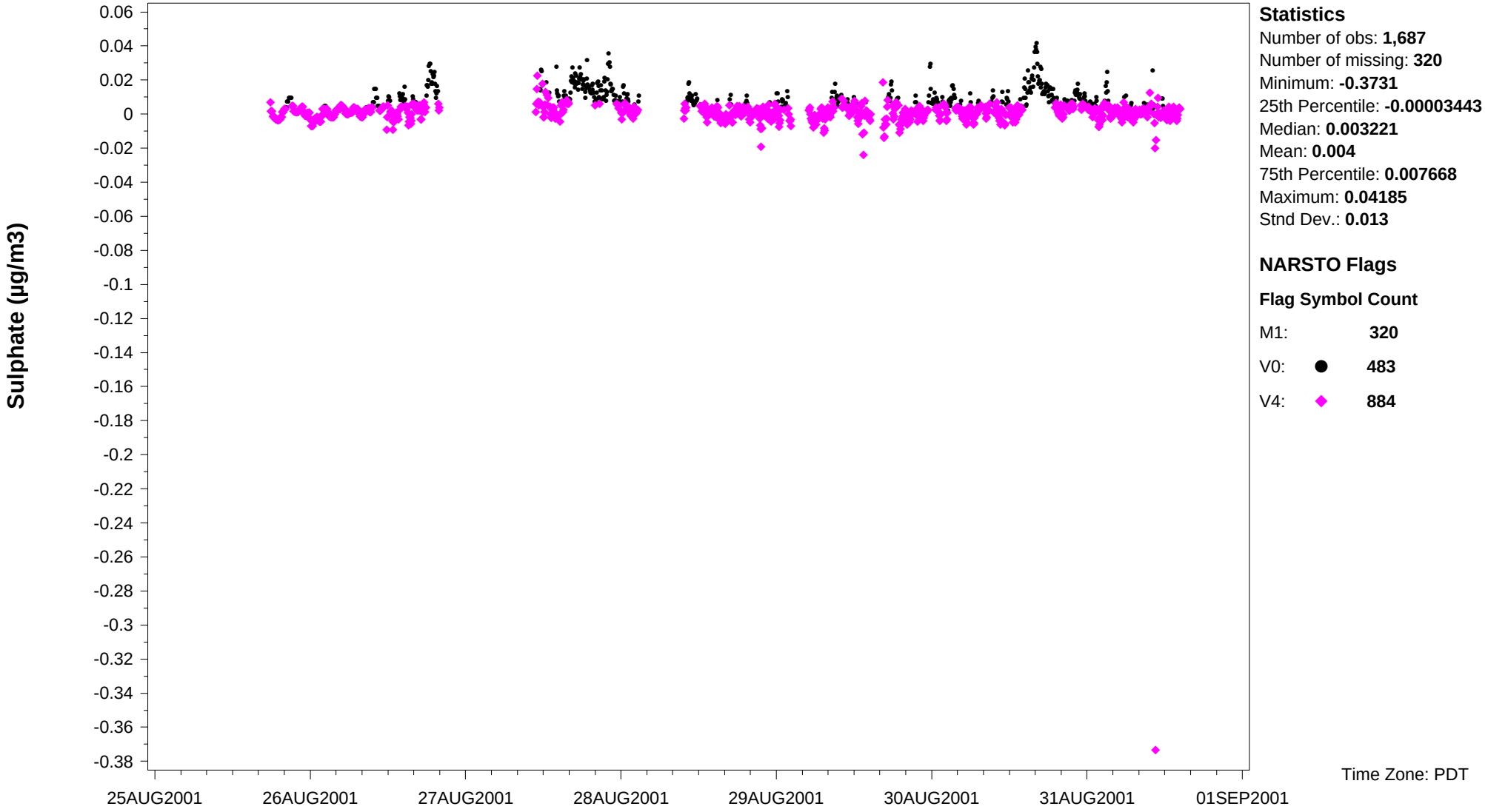


File Name: NATCHEM_PAC2001_SMMT_WOR_SULFATE-SIZE-DIST_AMS_20010826D6_V1

NAtChem Time Series Plot **21MAR2005**

Site ID: **PC01CABCSMMT** Variable name: **Sulphate** Common Name: **Sulphate** Units: **µg/m3** Sampling interval: **5 minute**
Sampling frequency: **Same as sampling interval** CAS ID: **C14808-79-8** Observation type: **Particles** Particle diameter--lower bound (UM): **0.0709627**
Particle diameter--upper bound (UM): **0.0751675** Particle diameter--median (UM): **0.0796214** Field sampling or measurement principle: **AMS**
Inlet type: **Cyclone** Volume standardization: **Ambient temperature and pressure** Sampling Height above ground (m): **5**
Instrument name and model number: **ARI AMS** Measurement principal investigator: **Douglas Worsnop**

Site Name:**Sumas Mountain, Vancouver, British Columbia** Latitude:**49.052 deg.** Longitude:**-122.24636 deg.** Start Date:**2001-08-26** End Date:**2001-08-31**



Statistics
Number of obs: **1,687**
Number of missing: **320**
Minimum: **-0.3731**
25th Percentile: **-0.00003443**
Median: **0.003221**
Mean: **0.004**
75th Percentile: **0.007668**
Maximum: **0.04185**
Stnd Dev.: **0.013**

NARSTO Flags

Flag Symbol Count

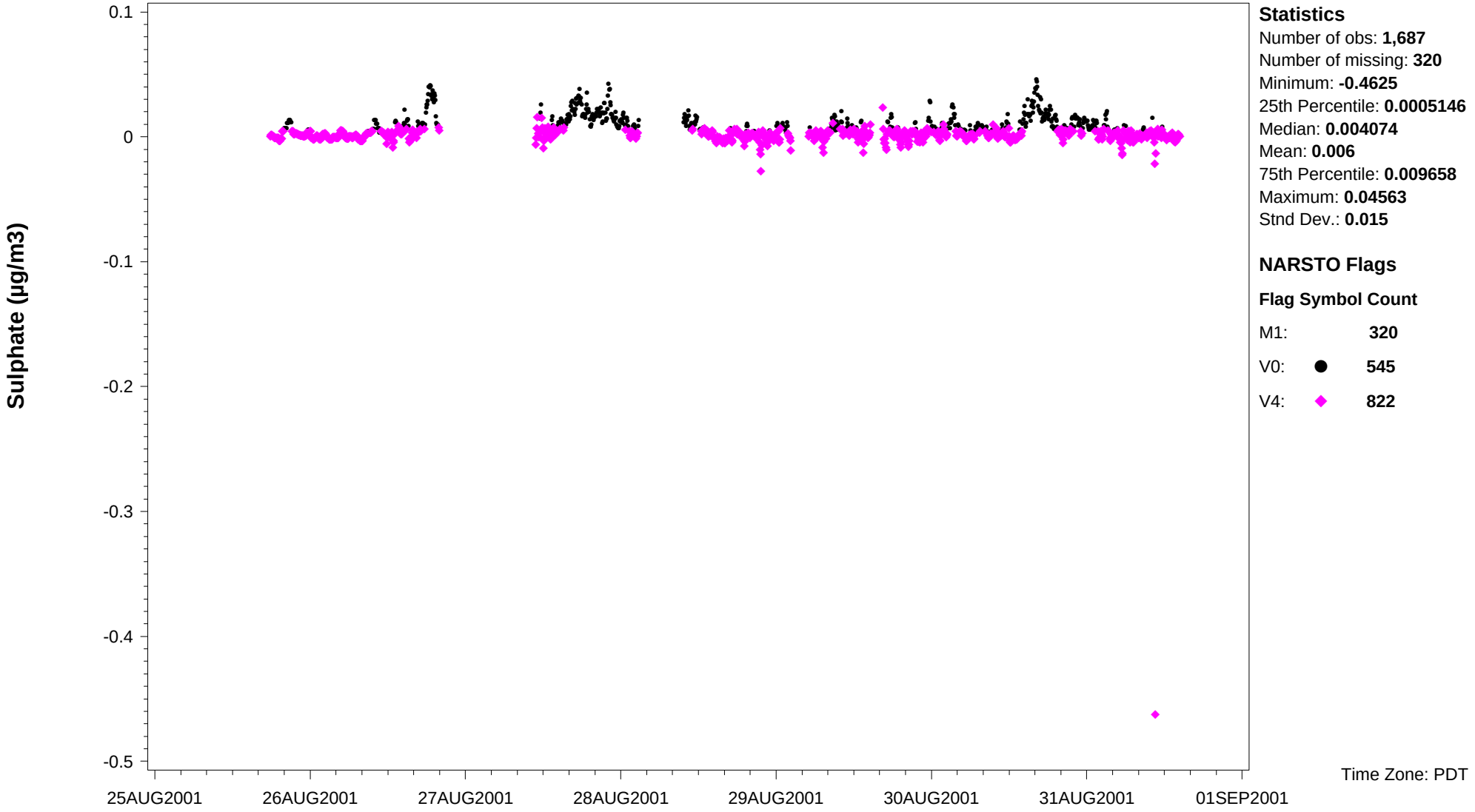
M1:		**320**
V0:	●	**483**
V4:	◆	**884**

File Name: NATCHEM_PAC2001_SMMT_WOR_SULFATE-SIZE-DIST_AMS_20010826D6_V1

NAtChem Time Series Plot **21MAR2005**

Site ID: **PC01CABCSMMT** Variable name: **Sulphate** Common Name: **Sulphate** Units: **µg/m3** Sampling interval: **5 minute**
Sampling frequency: **Same as sampling interval** CAS ID: **C14808-79-8** Observation type: **Particles** Particle diameter--lower bound (UM): **0.0796214**
Particle diameter--upper bound (UM): **0.0843393** Particle diameter--median (UM): **0.0893367** Field sampling or measurement principle: **AMS**
Inlet type: **Cyclone** Volume standardization: **Ambient temperature and pressure** Sampling Height above ground (m): **5**
Instrument name and model number: **ARI AMS** Measurement principal investigator: **Douglas Worsnop**

Site Name:**Sumas Mountain, Vancouver, British Columbia** Latitude:**49.052 deg.** Longitude:**-122.24636 deg.** Start Date:**2001-08-26** End Date:**2001-08-31**

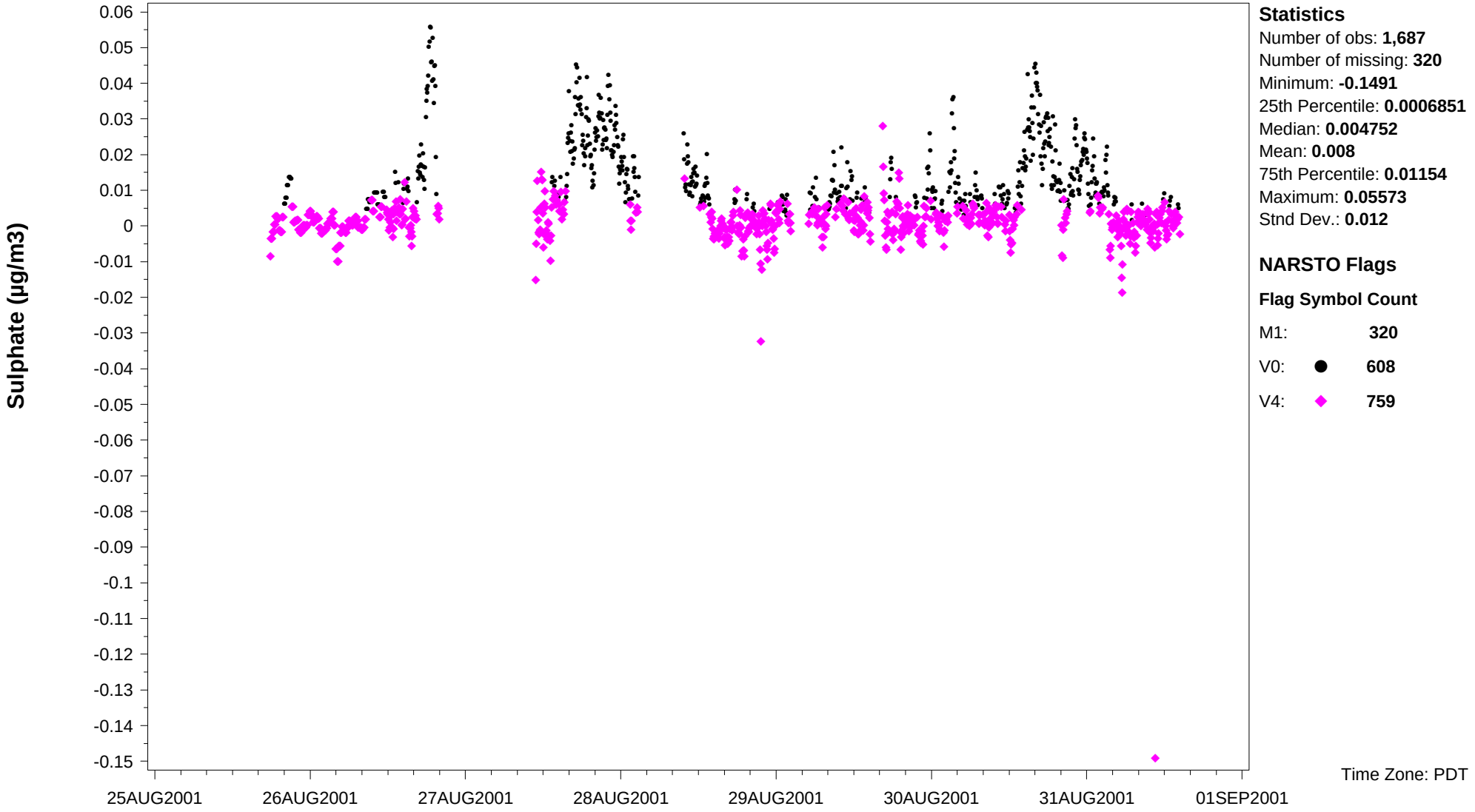


File Name: NATCHEM_PAC2001_SMMT_WOR_SULFATE-SIZE-DIST_AMS_20010826D6_V1

NAtChem Time Series Plot 21MAR2005

Site ID: **PC01CABCSMMT** Variable name: **Sulphate** Common Name: **Sulphate** Units: **µg/m3** Sampling interval: **5 minute**
Sampling frequency: **Same as sampling interval** CAS ID: **C14808-79-8** Observation type: **Particles** Particle diameter--lower bound (UM): **0.0893367**
Particle diameter--upper bound (UM): **0.0946302** Particle diameter--median (UM): **0.100237** Field sampling or measurement principle: **AMS**
Inlet type: **Cyclone** Volume standardization: **Ambient temperature and pressure** Sampling Height above ground (m): **5**
Instrument name and model number: **ARI AMS** Measurement principal investigator: **Douglas Worsnop**

Site Name:**Sumas Mountain, Vancouver, British Columbia** Latitude:**49.052 deg.** Longitude:**-122.24636 deg.** Start Date:**2001-08-26** End Date:**2001-08-31**



Statistics
Number of obs: **1,687**
Number of missing: **320**
Minimum: **-0.1491**
25th Percentile: **0.0006851**
Median: **0.004752**
Mean: **0.008**
75th Percentile: **0.01154**
Maximum: **0.05573**
Stnd Dev.: **0.012**

NARSTO Flags

Flag Symbol Count

M1: **320**
V0: **608**
V4: **759**

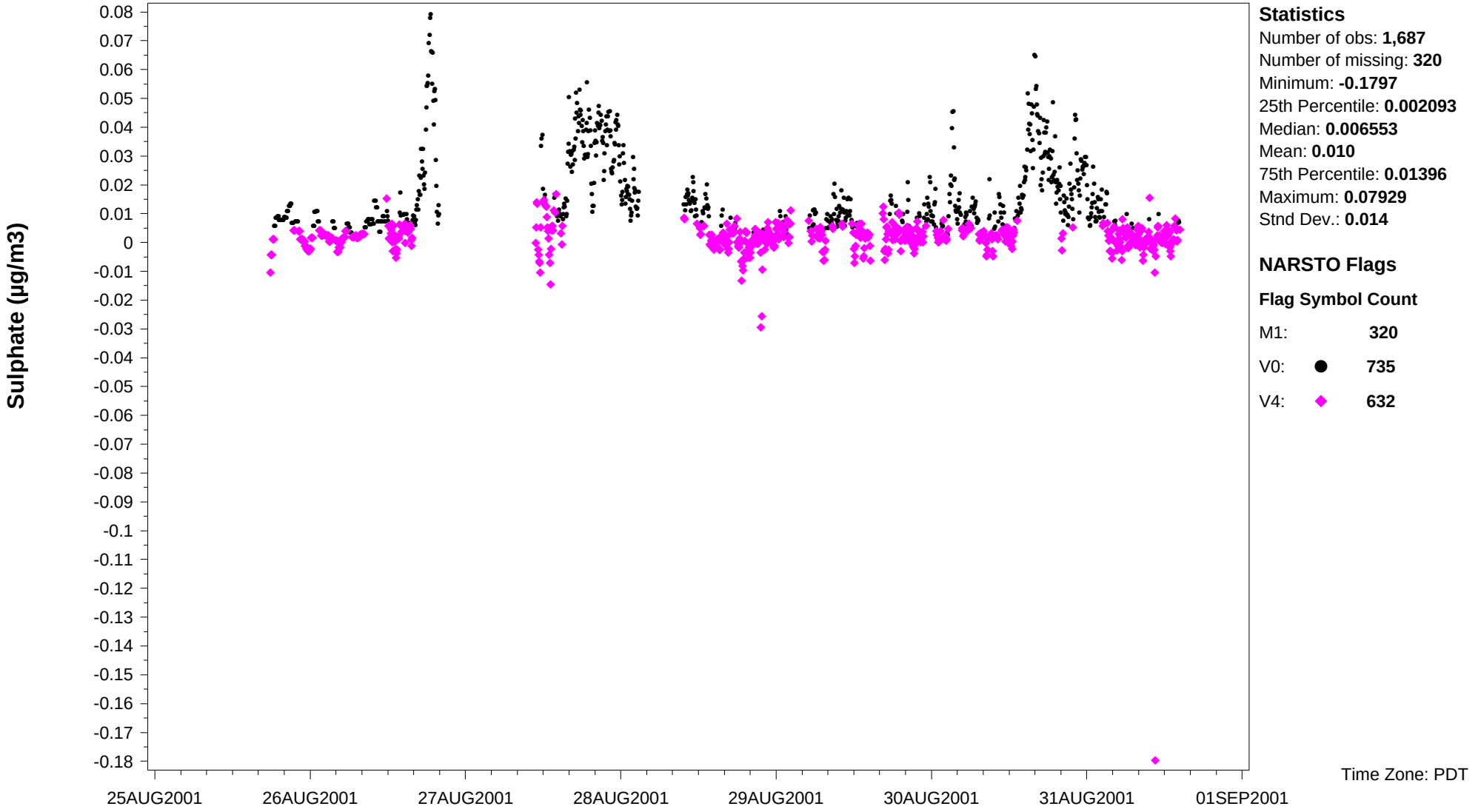
Time Zone: PDT

File Name: NATCHEM_PAC2001_SMMT_WOR_SULFATE-SIZE-DIST_AMS_20010826D6_V1

NAtChem Time Series Plot 21MAR2005

Site ID: **PC01CABCSMMT** Variable name: **Sulphate** Common Name: **Sulphate** Units: **µg/m3** Sampling interval: **5 minute**
Sampling frequency: **Same as sampling interval** CAS ID: **C14808-79-8** Observation type: **Particles** Particle diameter--lower bound (UM): **0.100237**
Particle diameter--upper bound (UM): **0.106177** Particle diameter--median (UM): **0.112468** Field sampling or measurement principle: **AMS**
Inlet type: **Cyclone** Volume standardization: **Ambient temperature and pressure** Sampling Height above ground (m): **5**
Instrument name and model number: **ARI AMS** Measurement principal investigator: **Douglas Worsnop**

Site Name:**Sumas Mountain, Vancouver, British Columbia** Latitude:**49.052 deg.** Longitude:**-122.24636 deg.** Start Date:**2001-08-26** End Date:**2001-08-31**



Statistics
Number of obs: **1,687**
Number of missing: **320**
Minimum: **-0.1797**
25th Percentile: **0.002093**
Median: **0.006553**
Mean: **0.010**
75th Percentile: **0.01396**
Maximum: **0.07929**
Stnd Dev.: **0.014**

NARSTO Flags

Flag Symbol Count

M1: **320**
V0: **735**
V4: **632**

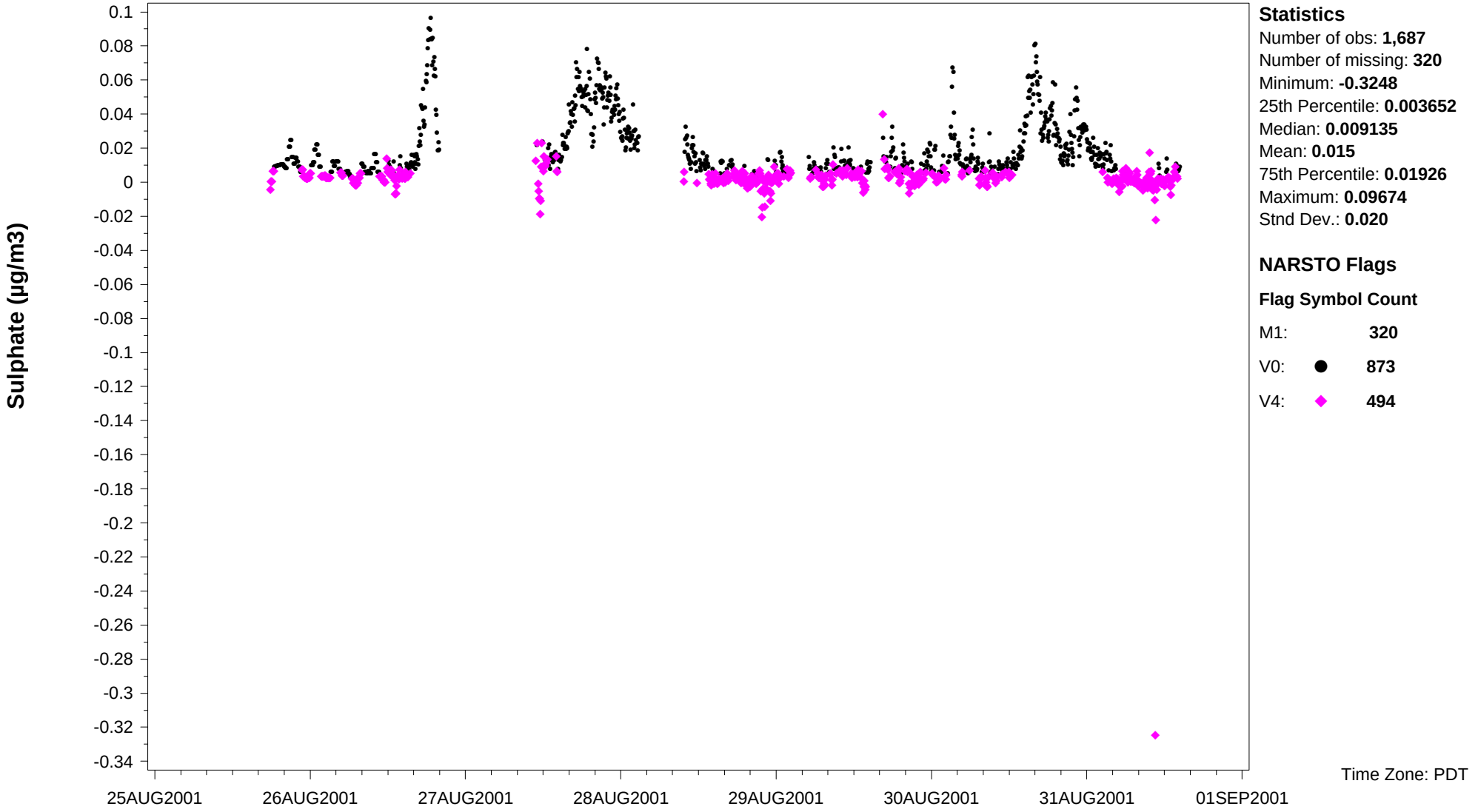
Time Zone: PDT

File Name: NATCHEM_PAC2001_SMMT_WOR_SULFATE-SIZE-DIST_AMS_20010826D6_V1

NAtChem Time Series Plot **21MAR2005**

Site ID: **PC01CABCSMMT** Variable name: **Sulphate** Common Name: **Sulphate** Units: **µg/m3** Sampling interval: **5 minute**
Sampling frequency: **Same as sampling interval** CAS ID: **C14808-79-8** Observation type: **Particles** Particle diameter--lower bound (UM): **0.112468**
Particle diameter--upper bound (UM): **0.119132** Particle diameter--median (UM): **0.126191** Field sampling or measurement principle: **AMS**
Inlet type: **Cyclone** Volume standardization: **Ambient temperature and pressure** Sampling Height above ground (m): **5**
Instrument name and model number: **ARI AMS** Measurement principal investigator: **Douglas Worsnop**

Site Name:**Sumas Mountain, Vancouver, British Columbia** Latitude:**49.052 deg.** Longitude:**-122.24636 deg.** Start Date:**2001-08-26** End Date:**2001-08-31**



Statistics
Number of obs: **1,687**
Number of missing: **320**
Minimum: **-0.3248**
25th Percentile: **0.003652**
Median: **0.009135**
Mean: **0.015**
75th Percentile: **0.01926**
Maximum: **0.09674**
Stnd Dev.: **0.020**

NARSTO Flags

Flag Symbol Count

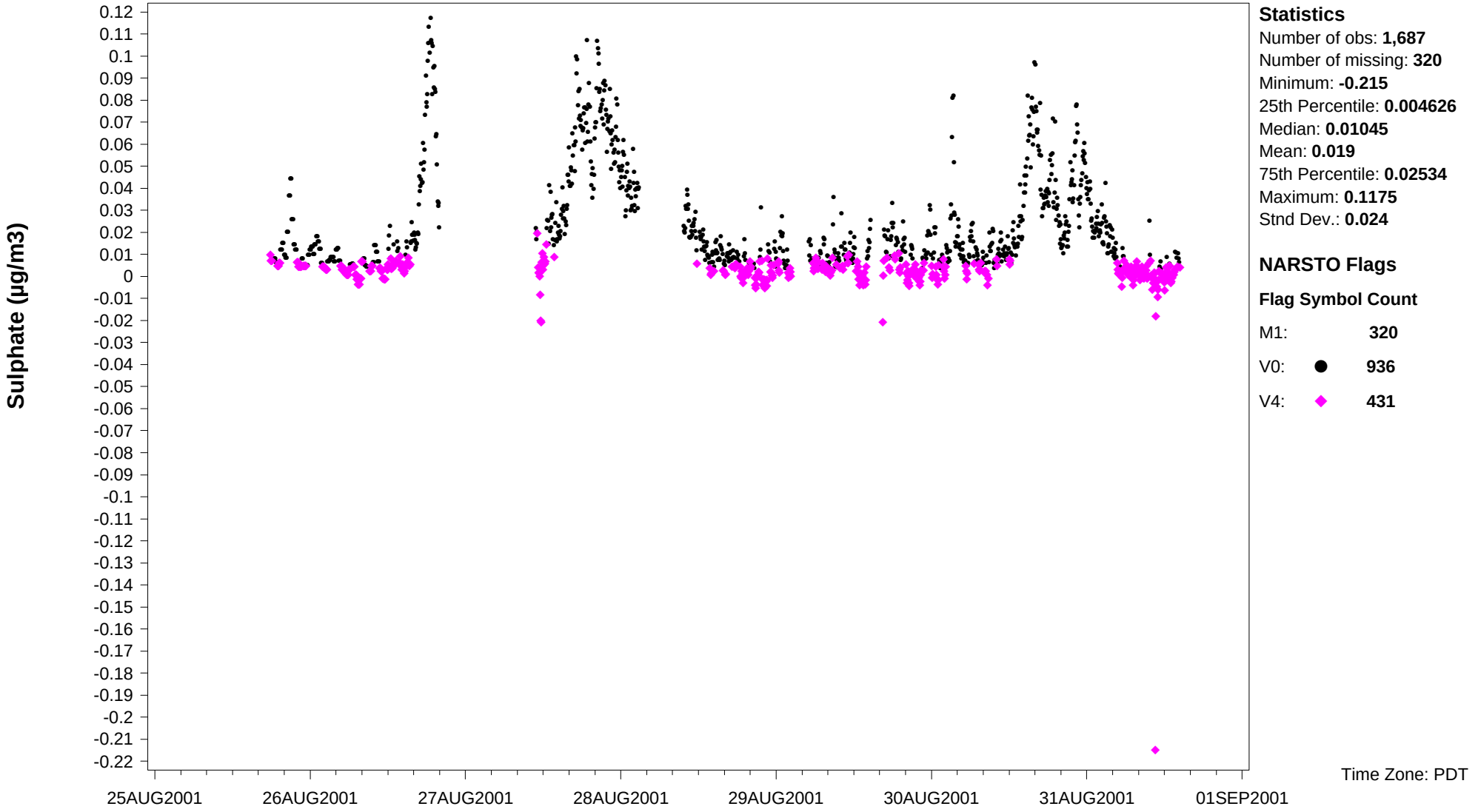
M1:		**320**
V0:	●	**873**
V4:	◆	**494**

File Name: NATCHEM_PAC2001_SMMT_WOR_SULFATE-SIZE-DIST_AMS_20010826D6_V1

NAtChem Time Series Plot **21MAR2005**

Site ID: **PC01CABCSMMT** Variable name: **Sulphate** Common Name: **Sulphate** Units: **µg/m3** Sampling interval: **5 minute**
Sampling frequency: **Same as sampling interval** CAS ID: **C14808-79-8** Observation type: **Particles** Particle diameter--lower bound (UM): **0.126191**
Particle diameter--upper bound (UM): **0.133669** Particle diameter--median (UM): **0.141589** Field sampling or measurement principle: **AMS**
Inlet type: **Cyclone** Volume standardization: **Ambient temperature and pressure** Sampling Height above ground (m): **5**
Instrument name and model number: **ARI AMS** Measurement principal investigator: **Douglas Worsnop**

Site Name:**Sumas Mountain, Vancouver, British Columbia** Latitude:**49.052 deg.** Longitude:**-122.24636 deg.** Start Date:**2001-08-26** End Date:**2001-08-31**



Statistics
Number of obs: **1,687**
Number of missing: **320**
Minimum: **-0.215**
25th Percentile: **0.004626**
Median: **0.01045**
Mean: **0.019**
75th Percentile: **0.02534**
Maximum: **0.1175**
Stnd Dev.: **0.024**

NARSTO Flags

Flag Symbol Count

M1: **320**
V0: **936**
V4: **431**

Time Zone: PDT

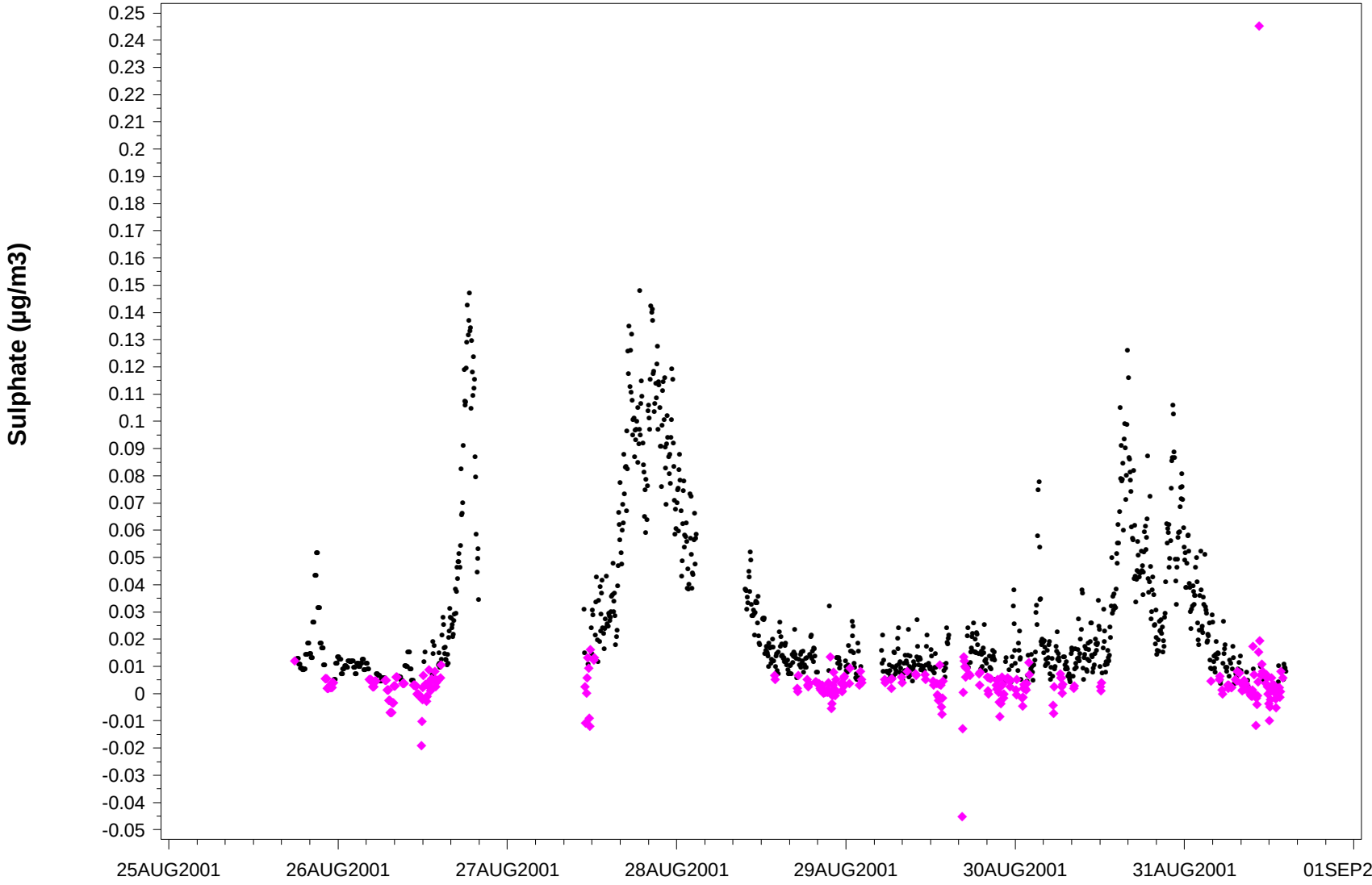
File Name: NATCHEM_PAC2001_SMMT_WOR_SULFATE-SIZE-DIST_AMS_20010826D6_V1

NAtChem Time Series Plot

21MAR2005

Site ID: **PC01CABCSMMT** Variable name: **Sulphate** Common Name: **Sulphate** Units: **µg/m3** Sampling interval: **5 minute**
Sampling frequency: **Same as sampling interval** CAS ID: **C14808-79-8** Observation type: **Particles** Particle diameter--lower bound (UM): **0.141589**
Particle diameter--upper bound (UM): **0.149979** Particle diameter--median (UM): **0.158866** Field sampling or measurement principle: **AMS**
Inlet type: **Cyclone** Volume standardization: **Ambient temperature and pressure** Sampling Height above ground (m): **5**
Instrument name and model number: **ARI AMS** Measurement principal investigator: **Douglas Worsnop**

Site Name:**Sumas Mountain, Vancouver, British Columbia** Latitude:**49.052 deg.** Longitude:**-122.24636 deg.** Start Date:**2001-08-26** End Date:**2001-08-31**



Statistics

Number of obs: **1,687**
Number of missing: **320**
Minimum: **-0.04528**
25th Percentile: **0.006553**
Median: **0.01305**
Mean: **0.026**
75th Percentile: **0.03251**
Maximum: **0.2452**
Stnd Dev.: **0.031**

NARSTO Flags

Flag Symbol Count

M1: **320**
V0: **1,049**
V4: **318**

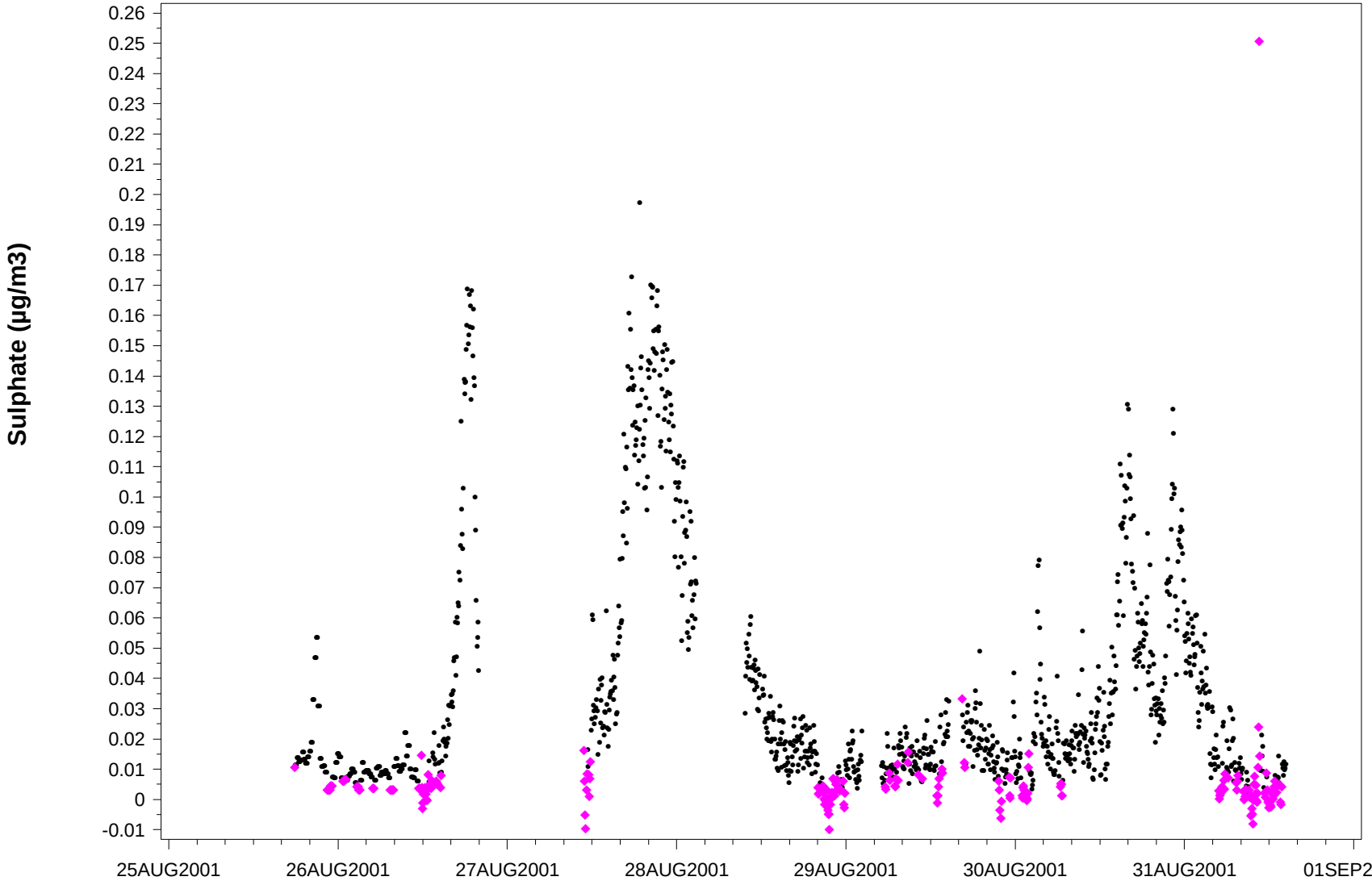
Time Zone: PDT

File Name: NATCHEM_PAC2001_SMMT_WOR_SULFATE-SIZE-DIST_AMS_20010826D6_V1

NAtChem Time Series Plot **21MAR2005**

Site ID: **PC01CABCSMMT** Variable name: **Sulphate** Common Name: **Sulphate** Units: **µg/m3** Sampling interval: **5 minute**
Sampling frequency: **Same as sampling interval** CAS ID: **C14808-79-8** Observation type: **Particles** Particle diameter--lower bound (UM): **0.158866**
Particle diameter--upper bound (UM): **0.168279** Particle diameter--median (UM): **0.17825** Field sampling or measurement principle: **AMS**
Inlet type: **Cyclone** Volume standardization: **Ambient temperature and pressure** Sampling Height above ground (m): **5**
Instrument name and model number: **ARI AMS** Measurement principal investigator: **Douglas Worsnop**

Site Name:**Sumas Mountain, Vancouver, British Columbia** Latitude:**49.052 deg.** Longitude:**-122.24636 deg.** Start Date:**2001-08-26** End Date:**2001-08-31**



Statistics
Number of obs: **1,687**
Number of missing: **320**
Minimum: **-0.01**
25th Percentile: **0.008909**
Median: **0.0168**
Mean: **0.033**
75th Percentile: **0.04023**
Maximum: **0.2505**
Stnd Dev.: **0.039**

NARSTO Flags

Flag Symbol Count

M1: **320**
V0: **1,154**
V4: **213**

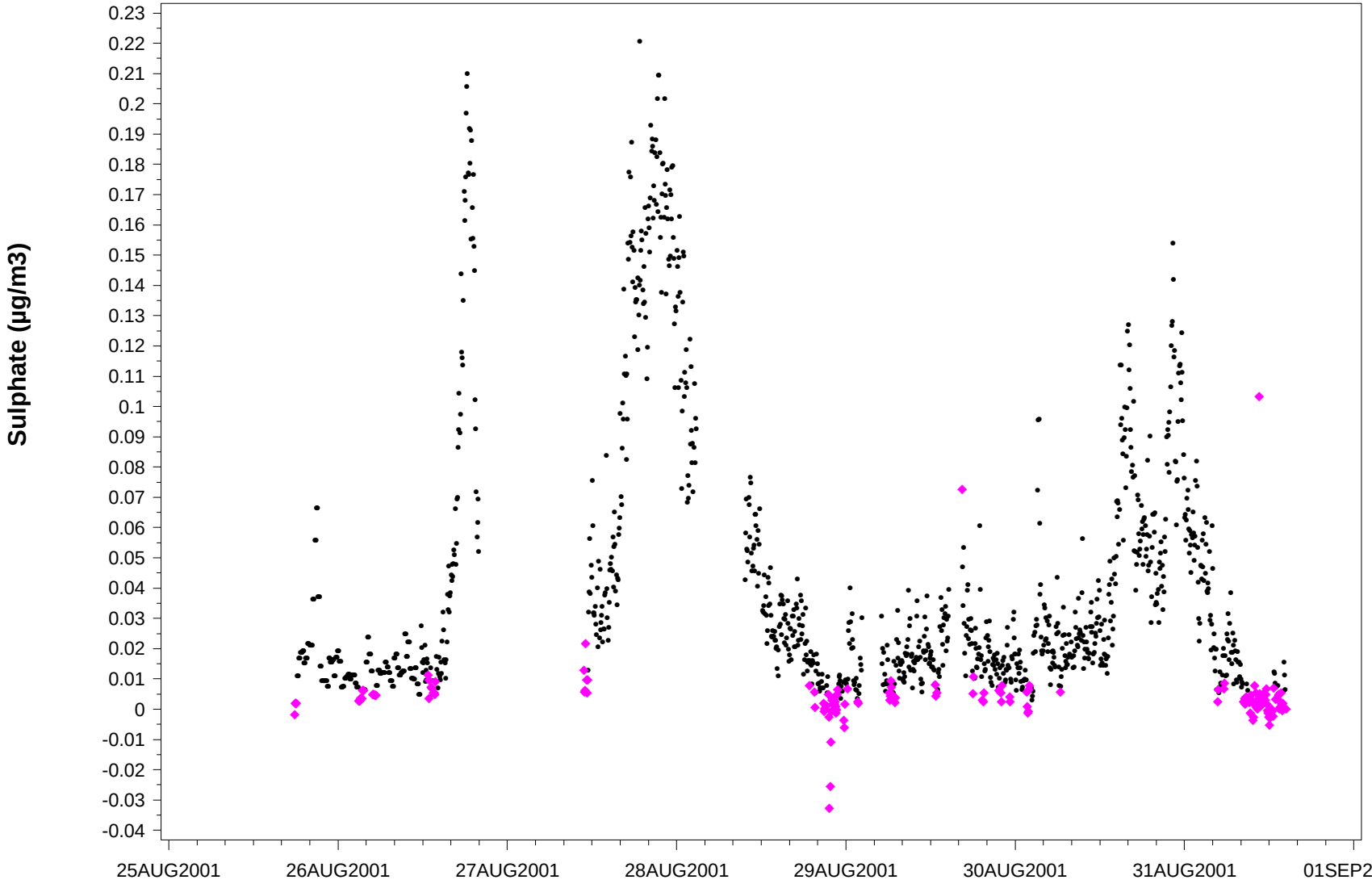
Time Zone: PDT

File Name: NATCHEM_PAC2001_SMMT_WOR_SULFATE-SIZE-DIST_AMS_20010826D6_V1

NAtChem Time Series Plot 21MAR2005

Site ID: **PC01CABCSMMT** Variable name: **Sulphate** Common Name: **Sulphate** Units: **µg/m3** Sampling interval: **5 minute**
Sampling frequency: **Same as sampling interval** CAS ID: **C14808-79-8** Observation type: **Particles** Particle diameter--lower bound (UM): **0.17825**
Particle diameter--upper bound (UM): **0.188812** Particle diameter--median (UM): **0.2** Field sampling or measurement principle: **AMS** Inlet type: **Cyclone**
Volume standardization: **Ambient temperature and pressure** Sampling Height above ground (m): **5** Instrument name and model number: **ARI AMS**
Measurement principal investigator: **Douglas Worsnop**

Site Name:**Sumas Mountain, Vancouver, British Columbia** Latitude:**49.052 deg.** Longitude:**-122.24636 deg.** Start Date:**2001-08-26** End Date:**2001-08-31**



Statistics
Number of obs: **1,687**
Number of missing: **320**
Minimum: **-0.03271**
25th Percentile: **0.01107**
Median: **0.021**
Mean: **0.040**
75th Percentile: **0.04987**
Maximum: **0.2206**
Stnd Dev.: **0.045**

NARSTO Flags

Flag Symbol Count

M1: **320**
V0: **1,211**
V4: **156**

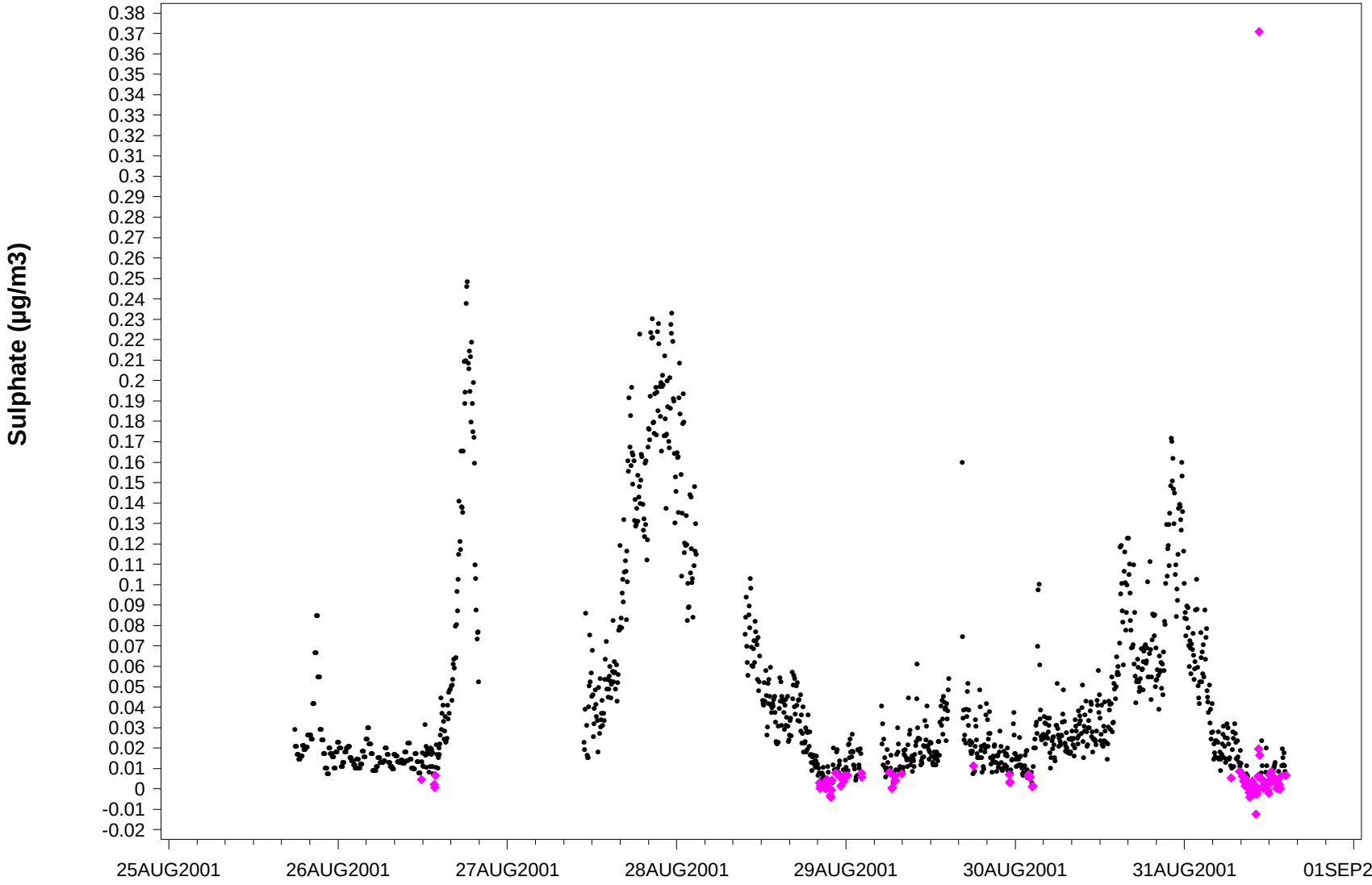
Time Zone: PDT

File Name: NATCHEM_PAC2001_SMMT_WOR_SULFATE-SIZE-DIST_AMS_20010826D6_V1

NAtChem Time Series Plot **21MAR2005**

Site ID: **PC01CABCSMMT** Variable name: **Sulphate** Common Name: **Sulphate** Units: **µg/m3** Sampling interval: **5 minute**
Sampling frequency: **Same as sampling interval** CAS ID: **C14808-79-8** Observation type: **Particles** Particle diameter--lower bound (UM): **0.2**
Particle diameter--upper bound (UM): **0.211851** Particle diameter--median (UM): **0.224404** Field sampling or measurement principle: **AMS**
Inlet type: **Cyclone** Volume standardization: **Ambient temperature and pressure** Sampling Height above ground (m): **5**
Instrument name and model number: **ARI AMS** Measurement principal investigator: **Douglas Worsnop**

Site Name:**Sumas Mountain, Vancouver, British Columbia** Latitude:**49.052 deg.** Longitude:**-122.24636 deg.** Start Date:**2001-08-26** End Date:**2001-08-31**



Statistics
Number of obs: **1,687**
Number of missing: **320**
Minimum: **-0.01259**
25th Percentile: **0.01434**
Median: **0.02491**
Mean: **0.047**
75th Percentile: **0.05811**
Maximum: **0.371**
Stnd Dev.: **0.052**

NARSTO Flags

Flag Symbol Count

M1: **320**
V0: **1,275**
V4: **92**

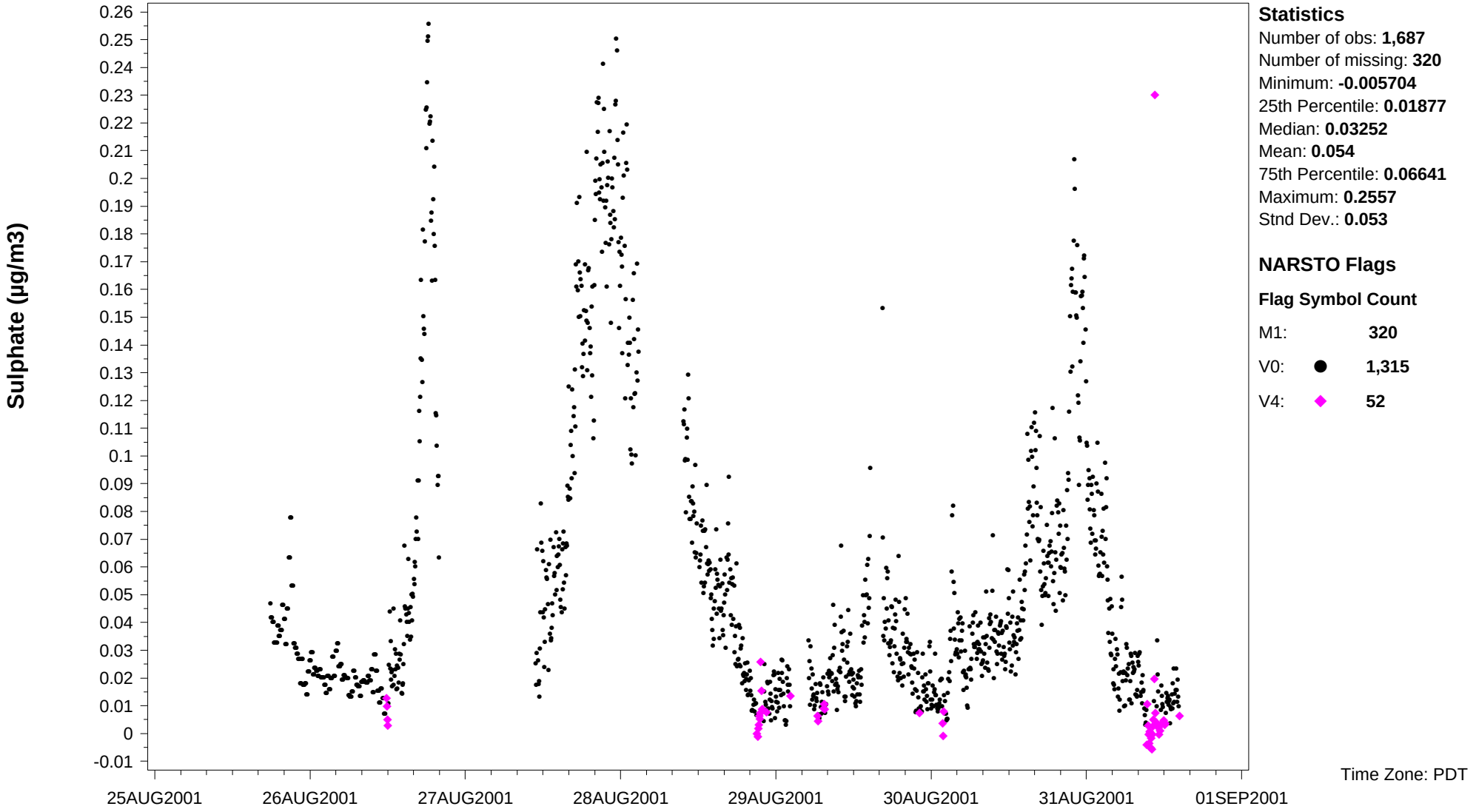
Time Zone: PDT

File Name: NATCHEM_PAC2001_SMMT_WOR_SULFATE-SIZE-DIST_AMS_20010826D6_V1

NAtChem Time Series Plot **21MAR2005**

Site ID: **PC01CABCSMMT** Variable name: **Sulphate** Common Name: **Sulphate** Units: **µg/m3** Sampling interval: **5 minute**
Sampling frequency: **Same as sampling interval** CAS ID: **C14808-79-8** Observation type: **Particles** Particle diameter--lower bound (UM): **0.224404**
Particle diameter--upper bound (UM): **0.2377** Particle diameter--median (UM): **0.251785** Field sampling or measurement principle: **AMS**
Inlet type: **Cyclone** Volume standardization: **Ambient temperature and pressure** Sampling Height above ground (m): **5**
Instrument name and model number: **ARI AMS** Measurement principal investigator: **Douglas Worsnop**

Site Name:**Sumas Mountain, Vancouver, British Columbia** Latitude:**49.052 deg.** Longitude:**-122.24636 deg.** Start Date:**2001-08-26** End Date:**2001-08-31**

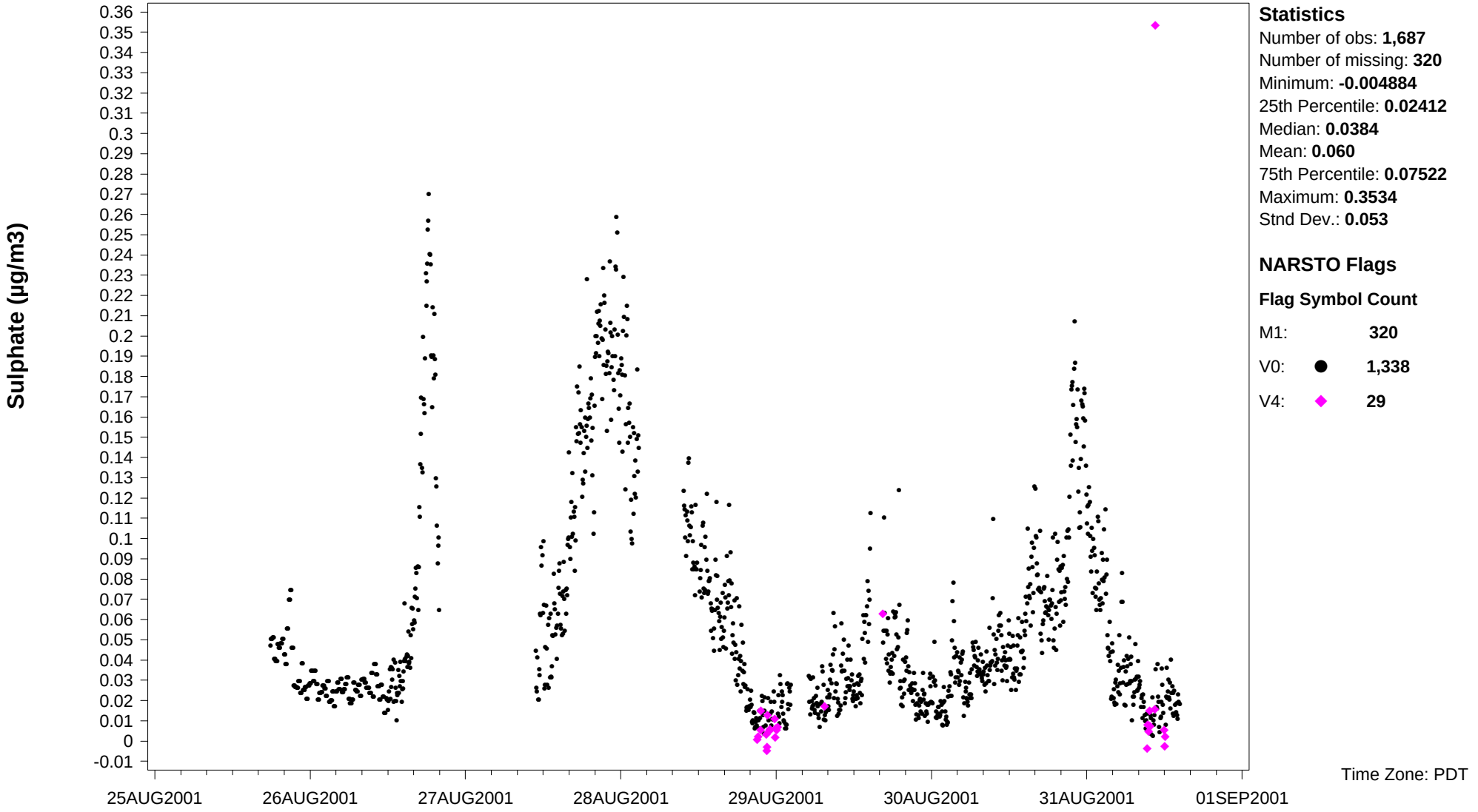


File Name: NATCHEM_PAC2001_SMMT_WOR_SULFATE-SIZE-DIST_AMS_20010826D6_V1

NAtChem Time Series Plot 21MAR2005

Site ID: **PC01CABCSMMT** Variable name: **Sulphate** Common Name: **Sulphate** Units: **µg/m3** Sampling interval: **5 minute**
Sampling frequency: **Same as sampling interval** CAS ID: **C14808-79-8** Observation type: **Particles** Particle diameter--lower bound (UM): **0.251785**
Particle diameter--upper bound (UM): **0.266704** Particle diameter--median (UM): **0.282508** Field sampling or measurement principle: **AMS**
Inlet type: **Cyclone** Volume standardization: **Ambient temperature and pressure** Sampling Height above ground (m): **5**
Instrument name and model number: **ARI AMS** Measurement principal investigator: **Douglas Worsnop**

Site Name:**Sumas Mountain, Vancouver, British Columbia** Latitude:**49.052 deg.** Longitude:**-122.24636 deg.** Start Date:**2001-08-26** End Date:**2001-08-31**



Statistics
Number of obs: **1,687**
Number of missing: **320**
Minimum: **-0.004884**
25th Percentile: **0.02412**
Median: **0.0384**
Mean: **0.060**
75th Percentile: **0.07522**
Maximum: **0.3534**
Stnd Dev.: **0.053**

NARSTO Flags

Flag Symbol Count

M1:		**320**
V0:	●	**1,338**
V4:	◆	**29**

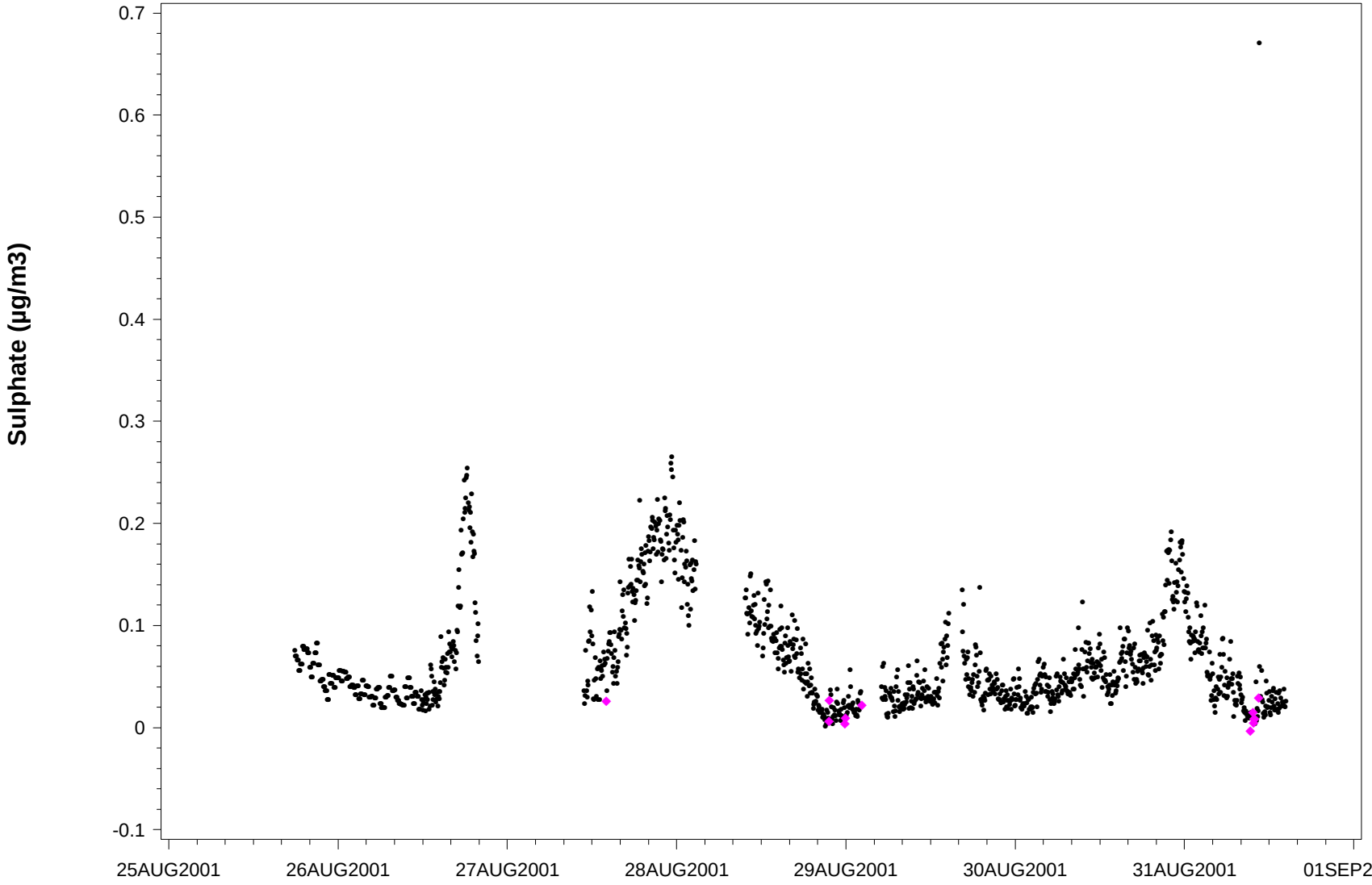
Time Zone: PDT

File Name: NATCHEM_PAC2001_SMMT_WOR_SULFATE-SIZE-DIST_AMS_20010826D6_V1

NAtChem Time Series Plot **21MAR2005**

Site ID: **PC01CABCSMMT** Variable name: **Sulphate** Common Name: **Sulphate** Units: **µg/m3** Sampling interval: **5 minute**
Sampling frequency: **Same as sampling interval** CAS ID: **C14808-79-8** Observation type: **Particles** Particle diameter--lower bound (UM): **0.282508**
Particle diameter--upper bound (UM): **0.299247** Particle diameter--median (UM): **0.316979** Field sampling or measurement principle: **AMS**
Inlet type: **Cyclone** Volume standardization: **Ambient temperature and pressure** Sampling Height above ground (m): **5**
Instrument name and model number: **ARI AMS** Measurement principal investigator: **Douglas Worsnop**

Site Name:**Sumas Mountain, Vancouver, British Columbia** Latitude:**49.052 deg.** Longitude:**-122.24636 deg.** Start Date:**2001-08-26** End Date:**2001-08-31**



Statistics
Number of obs: **1,687**
Number of missing: **320**
Minimum: **-0.003078**
25th Percentile: **0.03029**
Median: **0.0493**
Mean: **0.066**
75th Percentile: **0.08295**
Maximum: **0.6708**
Stnd Dev.: **0.053**

NARSTO Flags

Flag Symbol	Count
M1:	**320**
V0: ●	**1,355**
V4: ◆	**12**

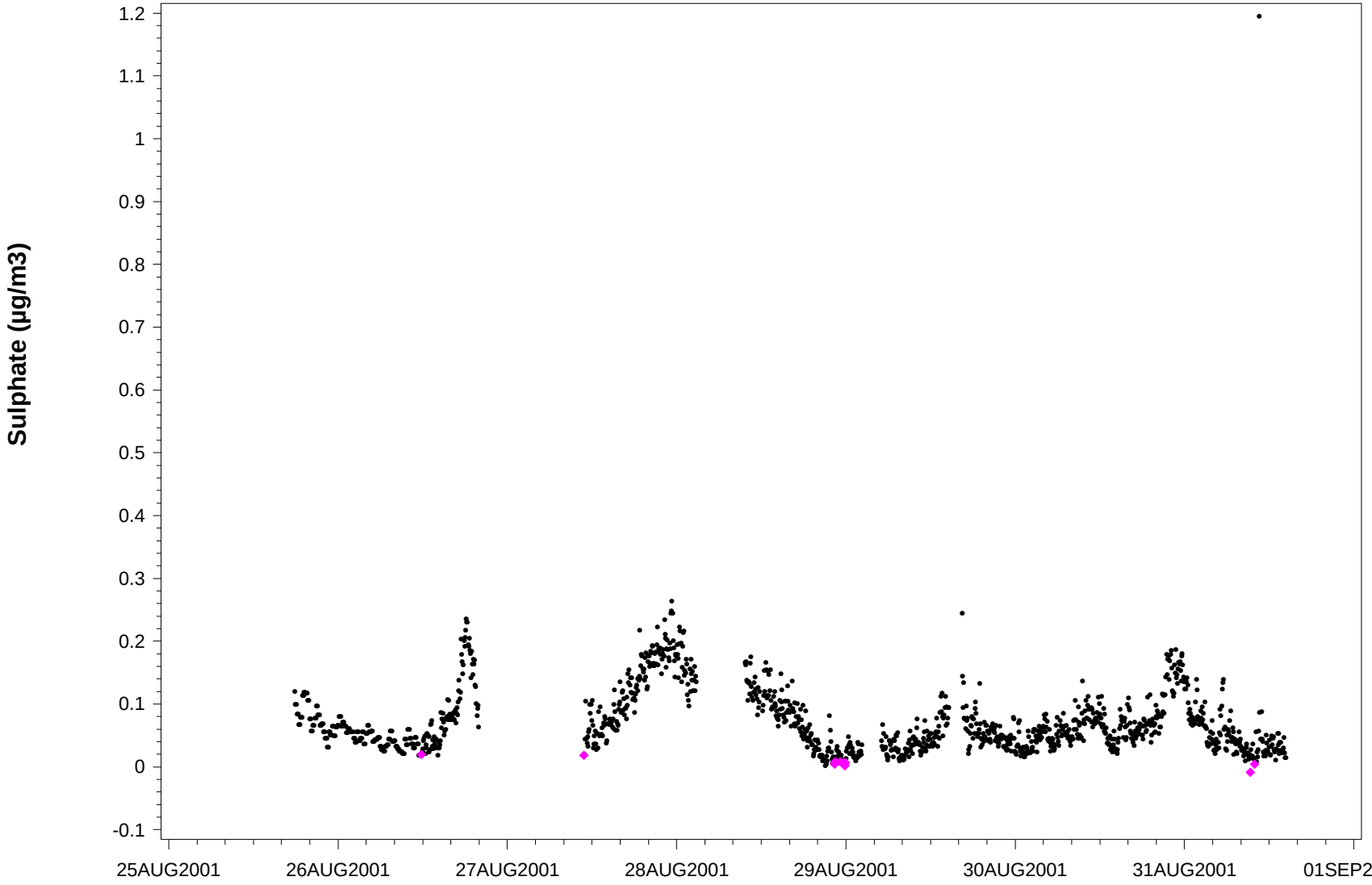
Time Zone: PDT

File Name: NATCHEM_PAC2001_SMMT_WOR_SULFATE-SIZE-DIST_AMS_20010826D6_V1

NAtChem Time Series Plot 21MAR2005

Site ID: **PC01CABCSMMT** Variable name: **Sulphate** Common Name: **Sulphate** Units: **µg/m3** Sampling interval: **5 minute**
Sampling frequency: **Same as sampling interval** CAS ID: **C14808-79-8** Observation type: **Particles** Particle diameter--lower bound (UM): **0.316979**
Particle diameter--upper bound (UM): **0.335761** Particle diameter--median (UM): **0.355656** Field sampling or measurement principle: **AMS**
Inlet type: **Cyclone** Volume standardization: **Ambient temperature and pressure** Sampling Height above ground (m): **5**
Instrument name and model number: **ARI AMS** Measurement principal investigator: **Douglas Worsnop**

Site Name:**Sumas Mountain, Vancouver, British Columbia** Latitude:**49.052 deg.** Longitude:**-122.24636 deg.** Start Date:**2001-08-26** End Date:**2001-08-31**



Statistics
Number of obs: **1,687**
Number of missing: **320**
Minimum: **-0.00807**
25th Percentile: **0.03705**
Median: **0.05772**
Mean: **0.072**
75th Percentile: **0.09177**
Maximum: **1.195**
Stnd Dev.: **0.057**

NARSTO Flags

Flag Symbol	Count
M1:	**320**
V0: ●	**1,356**
V4: ◆	**11**

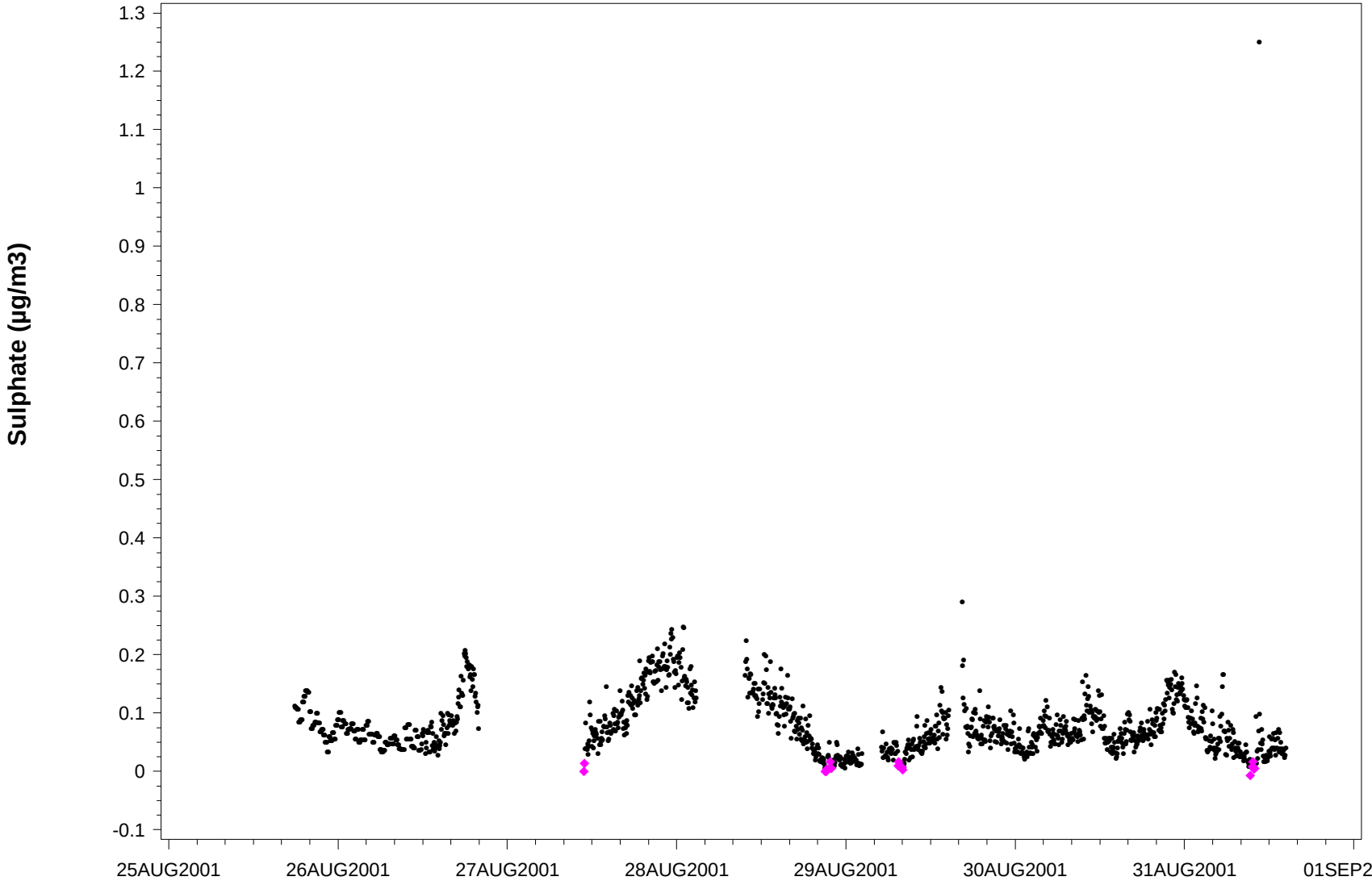
Time Zone: PDT

File Name: NATCHEM_PAC2001_SMMT_WOR_SULFATE-SIZE-DIST_AMS_20010826D6_V1

NAtChem Time Series Plot **21MAR2005**

Site ID: **PC01CABCSMMT** Variable name: **Sulphate** Common Name: **Sulphate** Units: **µg/m3** Sampling interval: **5 minute**
Sampling frequency: **Same as sampling interval** CAS ID: **C14808-79-8** Observation type: **Particles** Particle diameter--lower bound (UM): **0.355656**
Particle diameter--upper bound (UM): **0.37673** Particle diameter--median (UM): **0.399052** Field sampling or measurement principle: **AMS**
Inlet type: **Cyclone** Volume standardization: **Ambient temperature and pressure** Sampling Height above ground (m): **5**
Instrument name and model number: **ARI AMS** Measurement principal investigator: **Douglas Worsnop**

Site Name:**Sumas Mountain, Vancouver, British Columbia** Latitude:**49.052 deg.** Longitude:**-122.24636 deg.** Start Date:**2001-08-26** End Date:**2001-08-31**



Statistics
Number of obs: **1,687**
Number of missing: **320**
Minimum: **-0.008034**
25th Percentile: **0.04594**
Median: **0.06753**
Mean: **0.079**
75th Percentile: **0.1013**
Maximum: **1.25**
Stnd Dev.: **0.056**

NARSTO Flags

Flag Symbol	Count
M1:	**320**
V0: ●	**1,349**
V4: ◆	**18**

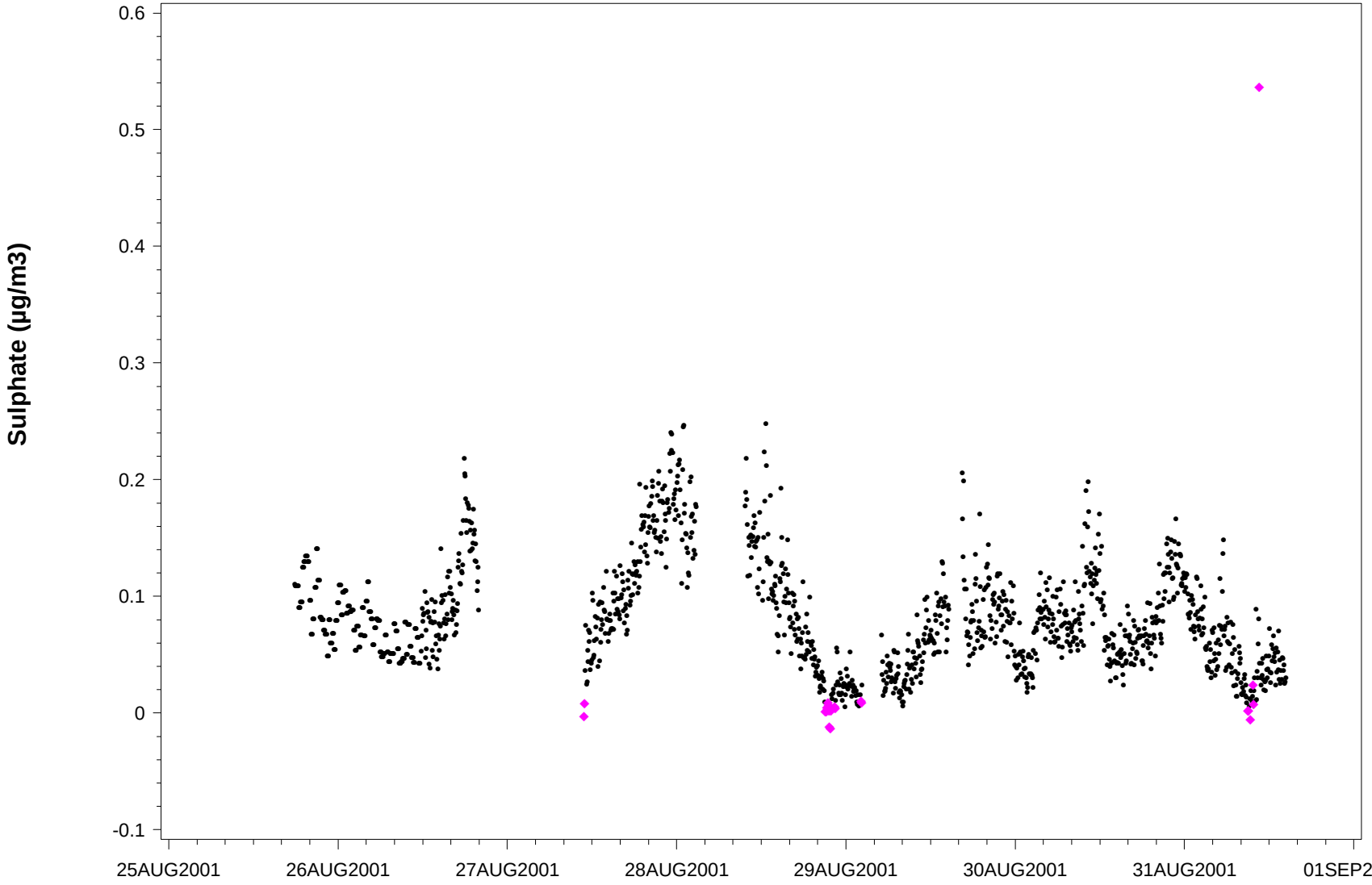
Time Zone: PDT

File Name: NATCHEM_PAC2001_SMMT_WOR_SULFATE-SIZE-DIST_AMS_20010826D6_V1

NAtChem Time Series Plot **21MAR2005**

Site ID: **PC01CABCSMMT** Variable name: **Sulphate** Common Name: **Sulphate** Units: **µg/m3** Sampling interval: **5 minute**
Sampling frequency: **Same as sampling interval** CAS ID: **C14808-79-8** Observation type: **Particles** Particle diameter--lower bound (UM): **0.399052**
Particle diameter--upper bound (UM): **0.422698** Particle diameter--median (UM): **0.447744** Field sampling or measurement principle: **AMS**
Inlet type: **Cyclone** Volume standardization: **Ambient temperature and pressure** Sampling Height above ground (m): **5**
Instrument name and model number: **ARI AMS** Measurement principal investigator: **Douglas Worsnop**

Site Name:**Sumas Mountain, Vancouver, British Columbia** Latitude:**49.052 deg.** Longitude:**-122.24636 deg.** Start Date:**2001-08-26** End Date:**2001-08-31**



Statistics
Number of obs: **1,687**
Number of missing: **320**
Minimum: **-0.0131**
25th Percentile: **0.04964**
Median: **0.07543**
Mean: **0.082**
75th Percentile: **0.1073**
Maximum: **0.536**
Stnd Dev.: **0.047**

NARSTO Flags

Flag Symbol	Count
M1:	**320**
V0: ●	**1,345**
V4: ◆	**22**

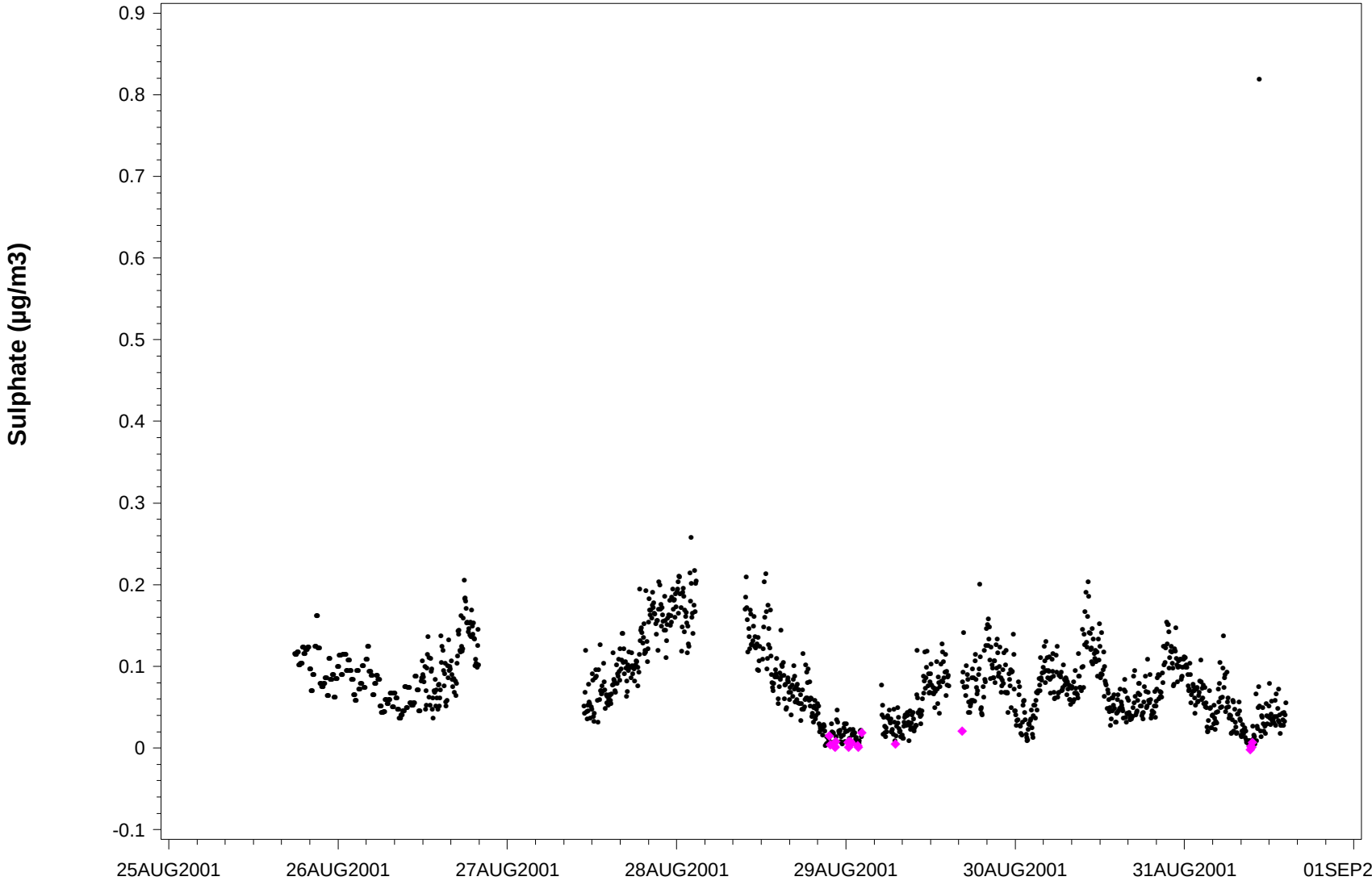
Time Zone: PDT

File Name: NATCHEM_PAC2001_SMMT_WOR_SULFATE-SIZE-DIST_AMS_20010826D6_V1

NAtChem Time Series Plot **21MAR2005**

Site ID: **PC01CABCSMMT** Variable name: **Sulphate** Common Name: **Sulphate** Units: **µg/m3** Sampling interval: **5 minute**
Sampling frequency: **Same as sampling interval** CAS ID: **C14808-79-8** Observation type: **Particles** Particle diameter--lower bound (UM): **0.447744**
Particle diameter--upper bound (UM): **0.474275** Particle diameter--median (UM): **0.502377** Field sampling or measurement principle: **AMS**
Inlet type: **Cyclone** Volume standardization: **Ambient temperature and pressure** Sampling Height above ground (m): **5**
Instrument name and model number: **ARI AMS** Measurement principal investigator: **Douglas Worsnop**

Site Name:**Sumas Mountain, Vancouver, British Columbia** Latitude:**49.052 deg.** Longitude:**-122.24636 deg.** Start Date:**2001-08-26** End Date:**2001-08-31**



Statistics
Number of obs: **1,687**
Number of missing: **320**
Minimum: **-0.002084**
25th Percentile: **0.04695**
Median: **0.0752**
Mean: **0.080**
75th Percentile: **0.1055**
Maximum: **0.8191**
Stnd Dev.: **0.049**

NARSTO Flags

Flag Symbol	Count
M1:	**320**
V0: ●	**1,348**
V4: ◆	**19**

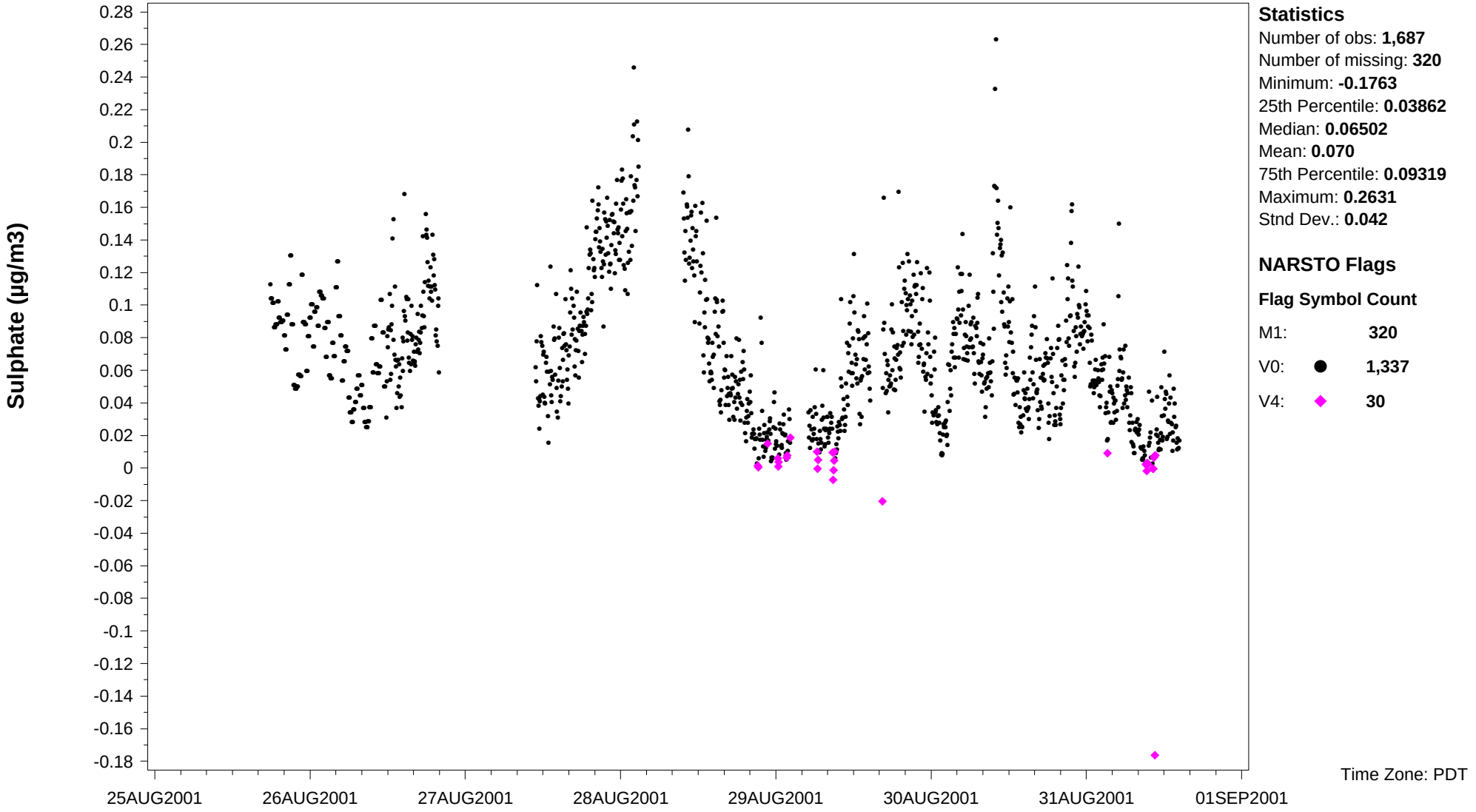
Time Zone: PDT

File Name: NATCHEM_PAC2001_SMMT_WOR_SULFATE-SIZE-DIST_AMS_20010826D6_V1

NAtChem Time Series Plot **21MAR2005**

Site ID: **PC01CABCSMMT** Variable name: **Sulphate** Common Name: **Sulphate** Units: **µg/m3** Sampling interval: **5 minute**
Sampling frequency: **Same as sampling interval** CAS ID: **C14808-79-8** Observation type: **Particles** Particle diameter--lower bound (UM): **0.502377**
Particle diameter--upper bound (UM): **0.532145** Particle diameter--median (UM): **0.563677** Field sampling or measurement principle: **AMS**
Inlet type: **Cyclone** Volume standardization: **Ambient temperature and pressure** Sampling Height above ground (m): **5**
Instrument name and model number: **ARI AMS** Measurement principal investigator: **Douglas Worsnop**

Site Name:**Sumas Mountain, Vancouver, British Columbia** Latitude:**49.052 deg.** Longitude:**-122.24636 deg.** Start Date:**2001-08-26** End Date:**2001-08-31**



Statistics
Number of obs: **1,687**
Number of missing: **320**
Minimum: **-0.1763**
25th Percentile: **0.03862**
Median: **0.06502**
Mean: **0.070**
75th Percentile: **0.09319**
Maximum: **0.2631**
Stnd Dev.: **0.042**

NARSTO Flags

Flag Symbol Count

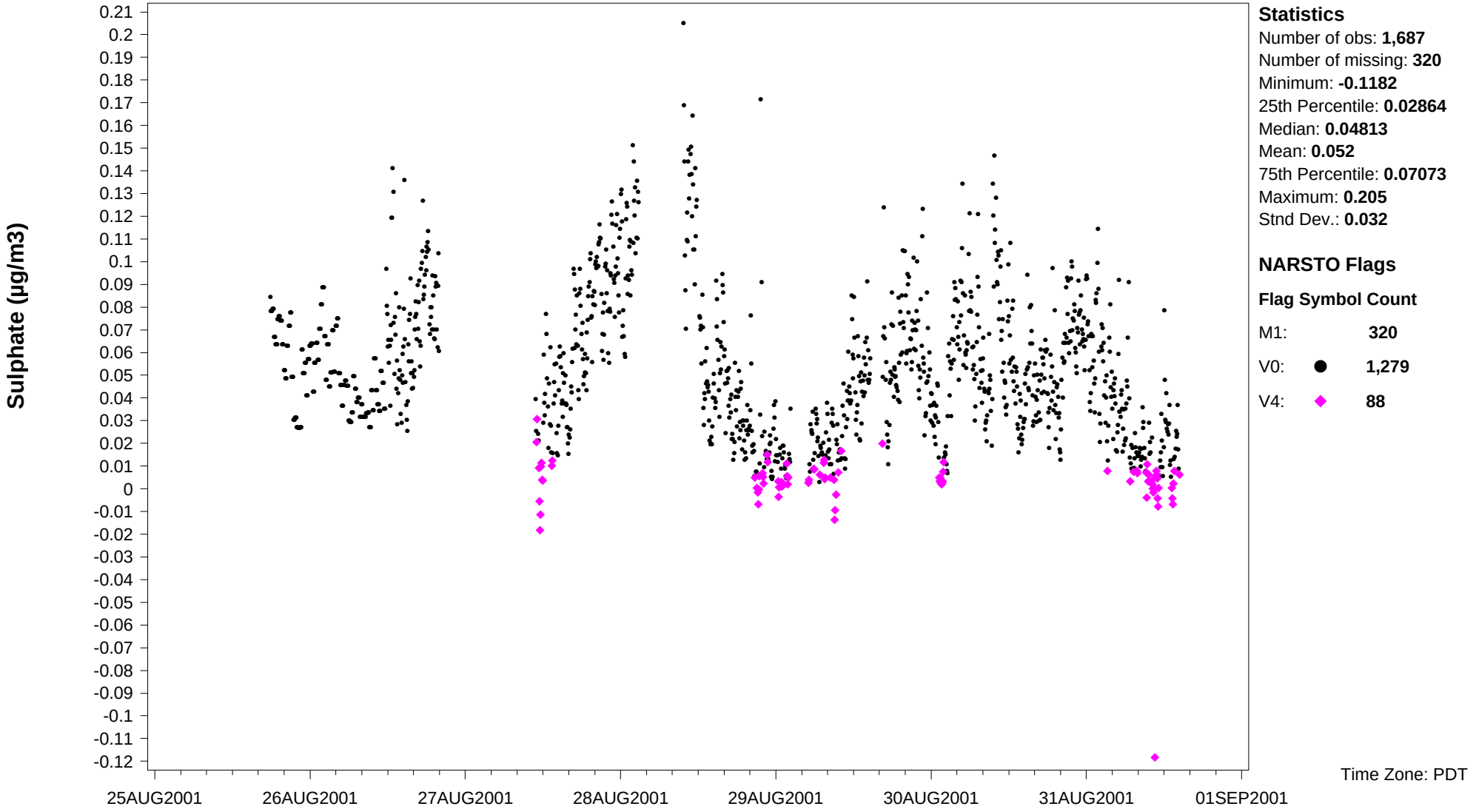
M1:		**320**
V0:	●	**1,337**
V4:	◆	**30**

File Name: NATCHEM_PAC2001_SMMT_WOR_SULFATE-SIZE-DIST_AMS_20010826D6_V1

NAtChem Time Series Plot **21MAR2005**

Site ID: **PC01CABCSMMT** Variable name: **Sulphate** Common Name: **Sulphate** Units: **µg/m3** Sampling interval: **5 minute**
Sampling frequency: **Same as sampling interval** CAS ID: **C14808-79-8** Observation type: **Particles** Particle diameter--lower bound (UM): **0.563677**
Particle diameter--upper bound (UM): **0.597077** Particle diameter--median (UM): **0.632456** Field sampling or measurement principle: **AMS**
Inlet type: **Cyclone** Volume standardization: **Ambient temperature and pressure** Sampling Height above ground (m): **5**
Instrument name and model number: **ARI AMS** Measurement principal investigator: **Douglas Worsnop**

Site Name:**Sumas Mountain, Vancouver, British Columbia** Latitude:**49.052 deg.** Longitude:**-122.24636 deg.** Start Date:**2001-08-26** End Date:**2001-08-31**



Statistics
Number of obs: **1,687**
Number of missing: **320**
Minimum: **-0.1182**
25th Percentile: **0.02864**
Median: **0.04813**
Mean: **0.052**
75th Percentile: **0.07073**
Maximum: **0.205**
Stnd Dev.: **0.032**

NARSTO Flags

Flag Symbol Count

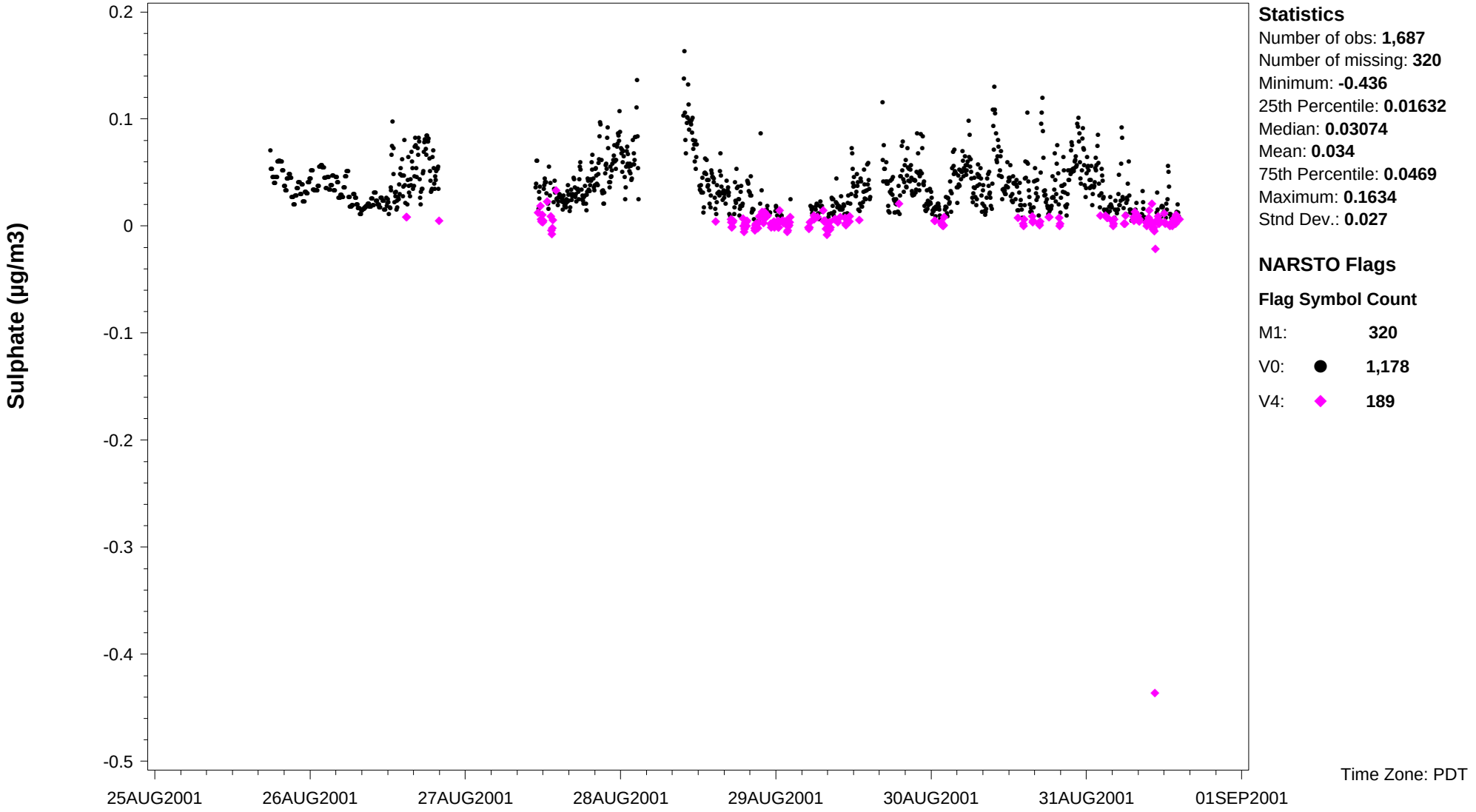
M1:		**320**
V0:	●	**1,279**
V4:	◆	**88**

File Name: NATCHEM_PAC2001_SMMT_WOR_SULFATE-SIZE-DIST_AMS_20010826D6_V1

NAtChem Time Series Plot **21MAR2005**

Site ID: **PC01CABCSMMT** Variable name: **Sulphate** Common Name: **Sulphate** Units: **µg/m3** Sampling interval: **5 minute**
Sampling frequency: **Same as sampling interval** CAS ID: **C14808-79-8** Observation type: **Particles** Particle diameter--lower bound (UM): **0.632456**
Particle diameter--upper bound (UM): **0.669931** Particle diameter--median (UM): **0.709627** Field sampling or measurement principle: **AMS**
Inlet type: **Cyclone** Volume standardization: **Ambient temperature and pressure** Sampling Height above ground (m): **5**
Instrument name and model number: **ARI AMS** Measurement principal investigator: **Douglas Worsnop**

Site Name:**Sumas Mountain, Vancouver, British Columbia** Latitude:**49.052 deg.** Longitude:**-122.24636 deg.** Start Date:**2001-08-26** End Date:**2001-08-31**



Statistics
Number of obs: **1,687**
Number of missing: **320**
Minimum: **-0.436**
25th Percentile: **0.01632**
Median: **0.03074**
Mean: **0.034**
75th Percentile: **0.0469**
Maximum: **0.1634**
Stnd Dev.: **0.027**

NARSTO Flags

Flag Symbol	Count
M1:	**320**
V0: ●	**1,178**
V4: ◆	**189**

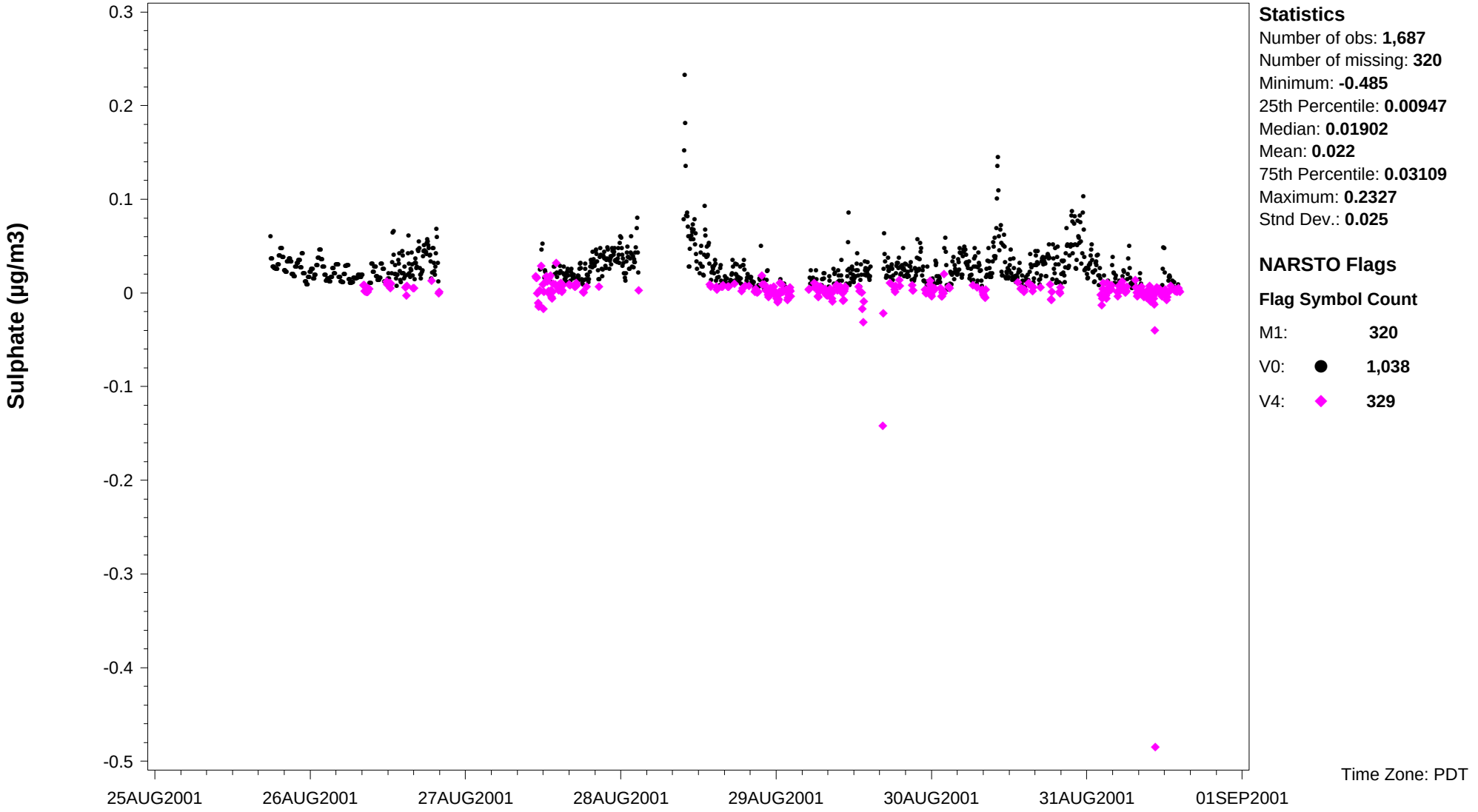
File Name: NATCHEM_PAC2001_SMMT_WOR_SULFATE-SIZE-DIST_AMS_20010826D6_V1

NAtChem Time Series Plot

21MAR2005

Site ID: **PC01CABCSMMT** Variable name: **Sulphate** Common Name: **Sulphate** Units: **µg/m3** Sampling interval: **5 minute**
Sampling frequency: **Same as sampling interval** CAS ID: **C14808-79-8** Observation type: **Particles** Particle diameter--lower bound (UM): **0.709627**
Particle diameter--upper bound (UM): **0.751675** Particle diameter--median (UM): **0.796214** Field sampling or measurement principle: **AMS**
Inlet type: **Cyclone** Volume standardization: **Ambient temperature and pressure** Sampling Height above ground (m): **5**
Instrument name and model number: **ARI AMS** Measurement principal investigator: **Douglas Worsnop**

Site Name:**Sumas Mountain, Vancouver, British Columbia** Latitude:**49.052 deg.** Longitude:**-122.24636 deg.** Start Date:**2001-08-26** End Date:**2001-08-31**



Statistics

Number of obs: **1,687**
Number of missing: **320**
Minimum: **-0.485**
25th Percentile: **0.00947**
Median: **0.01902**
Mean: **0.022**
75th Percentile: **0.03109**
Maximum: **0.2327**
Stnd Dev.: **0.025**

NARSTO Flags

Flag Symbol Count

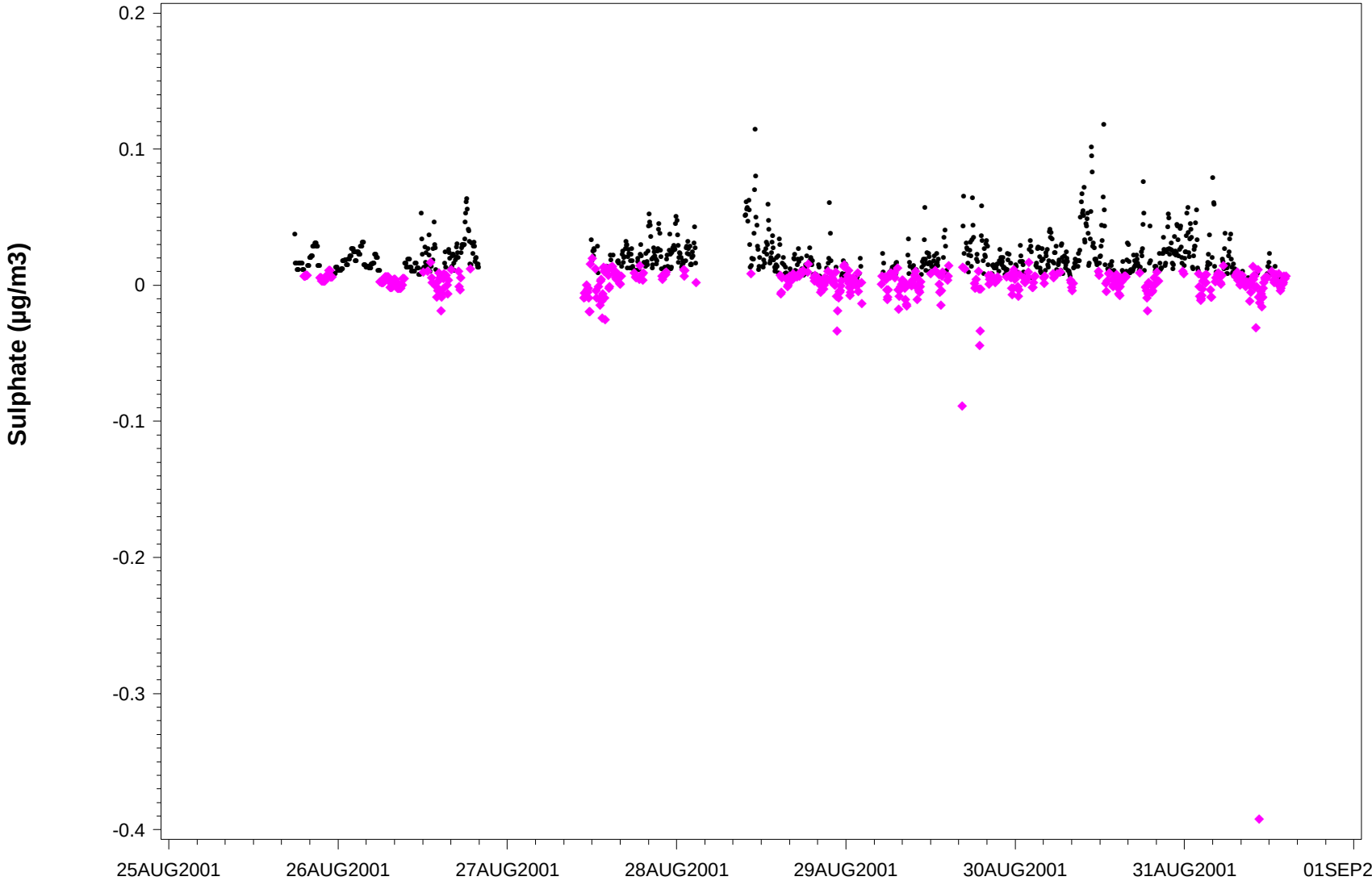
M1: **320**
V0: **1,038**
V4: **329**

File Name: NATCHEM_PAC2001_SMMT_WOR_SULFATE-SIZE-DIST_AMS_20010826D6_V1

NAtChem Time Series Plot 21MAR2005

Site ID: **PC01CABCSMMT** Variable name: **Sulphate** Common Name: **Sulphate** Units: **µg/m3** Sampling interval: **5 minute**
Sampling frequency: **Same as sampling interval** CAS ID: **C14808-79-8** Observation type: **Particles** Particle diameter--lower bound (UM): **0.796214**
Particle diameter--upper bound (UM): **0.843393** Particle diameter--median (UM): **0.893367** Field sampling or measurement principle: **AMS**
Inlet type: **Cyclone** Volume standardization: **Ambient temperature and pressure** Sampling Height above ground (m): **5**
Instrument name and model number: **ARI AMS** Measurement principal investigator: **Douglas Worsnop**

Site Name:**Sumas Mountain, Vancouver, British Columbia** Latitude:**49.052 deg.** Longitude:**-122.24636 deg.** Start Date:**2001-08-26** End Date:**2001-08-31**



Statistics
Number of obs: **1,687**
Number of missing: **320**
Minimum: **-0.3922**
25th Percentile: **0.005817**
Median: **0.01286**
Mean: **0.014**
75th Percentile: **0.02148**
Maximum: **0.1182**
Stnd Dev.: **0.019**

NARSTO Flags

Flag Symbol Count

M1:		**320**
V0:	●	**868**
V4:	◆	**499**

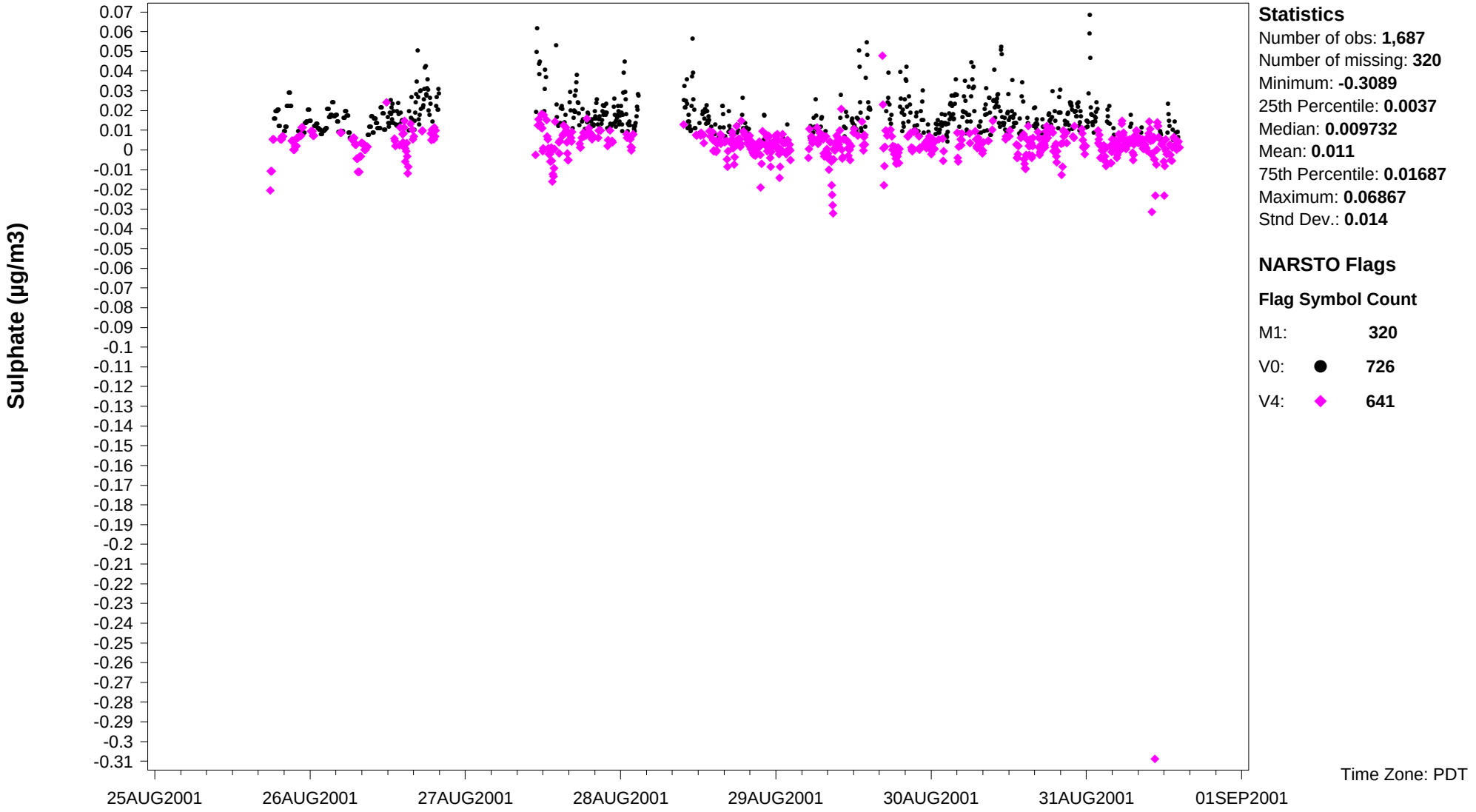
Time Zone: PDT

File Name: NATCHEM_PAC2001_SMMT_WOR_SULFATE-SIZE-DIST_AMS_20010826D6_V1

NAtChem Time Series Plot **21MAR2005**

Site ID: **PC01CABCSMMT** Variable name: **Sulphate** Common Name: **Sulphate** Units: **µg/m3** Sampling interval: **5 minute**
Sampling frequency: **Same as sampling interval** CAS ID: **C14808-79-8** Observation type: **Particles** Particle diameter--lower bound (UM): **0.893367**
Particle diameter--upper bound (UM): **0.946302** Particle diameter--median (UM): **1.00237** Field sampling or measurement principle: **AMS**
Inlet type: **Cyclone** Volume standardization: **Ambient temperature and pressure** Sampling Height above ground (m): **5**
Instrument name and model number: **ARI AMS** Measurement principal investigator: **Douglas Worsnop**

Site Name:**Sumas Mountain, Vancouver, British Columbia** Latitude:**49.052 deg.** Longitude:**-122.24636 deg.** Start Date:**2001-08-26** End Date:**2001-08-31**



Statistics
Number of obs: **1,687**
Number of missing: **320**
Minimum: **-0.3089**
25th Percentile: **0.0037**
Median: **0.009732**
Mean: **0.011**
75th Percentile: **0.01687**
Maximum: **0.06867**
Stnd Dev.: **0.014**

NARSTO Flags

Flag Symbol Count

M1: **320**
V0: **726**
V4: **641**

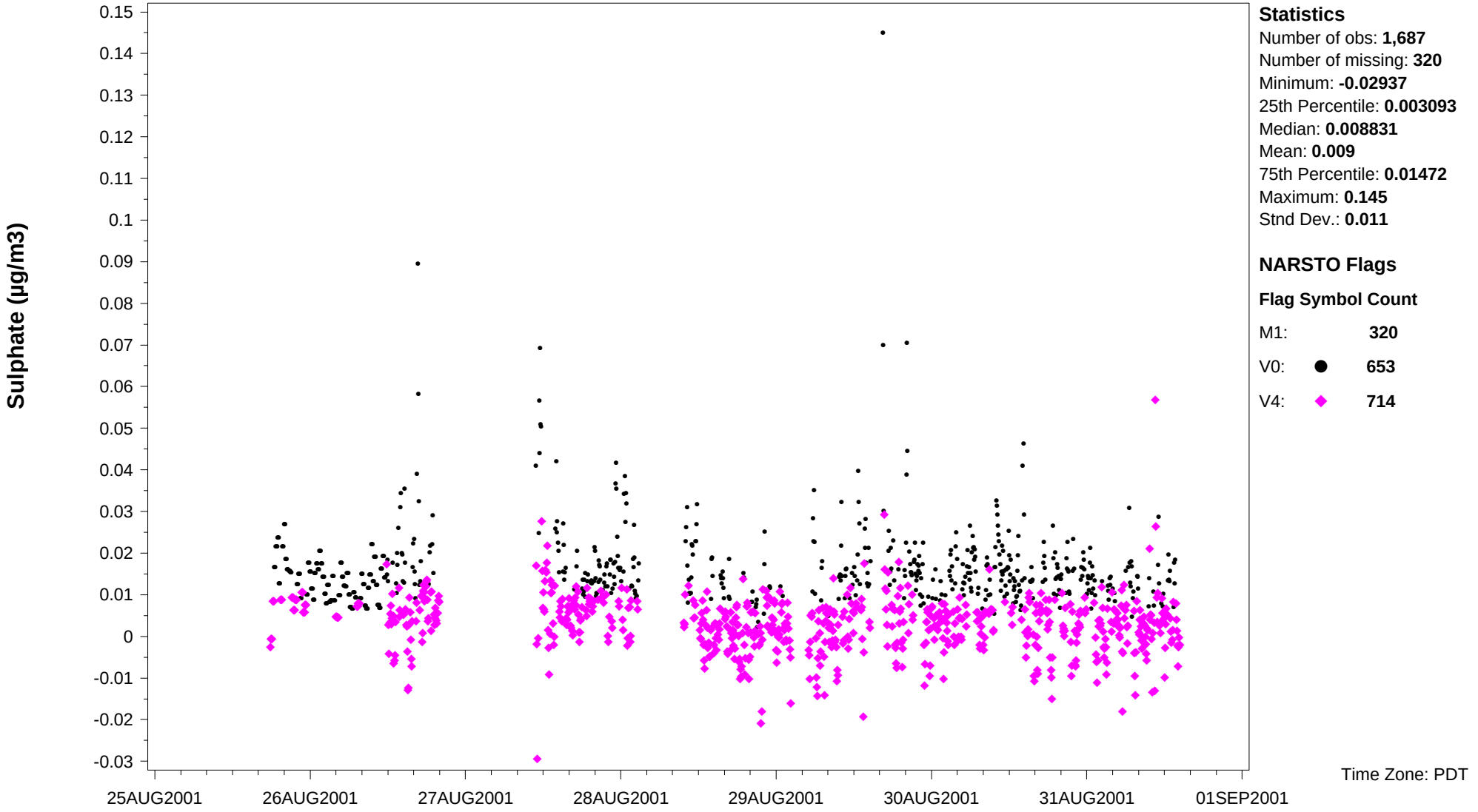
Time Zone: PDT

File Name: NATCHEM_PAC2001_SMMT_WOR_SULFATE-SIZE-DIST_AMS_20010826D6_V1

NAtChem Time Series Plot 21MAR2005

Site ID: **PC01CABCSMMT** Variable name: **Sulphate** Common Name: **Sulphate** Units: **µg/m3** Sampling interval: **5 minute**
Sampling frequency: **Same as sampling interval** CAS ID: **C14808-79-8** Observation type: **Particles** Particle diameter--lower bound (UM): **1.00237**
Particle diameter--upper bound (UM): **1.06177** Particle diameter--median (UM): **1.12468** Field sampling or measurement principle: **AMS**
Inlet type: **Cyclone** Volume standardization: **Ambient temperature and pressure** Sampling Height above ground (m): **5**
Instrument name and model number: **ARI AMS** Measurement principal investigator: **Douglas Worsnop**

Site Name:**Sumas Mountain, Vancouver, British Columbia** Latitude:**49.052 deg.** Longitude:**-122.24636 deg.** Start Date:**2001-08-26** End Date:**2001-08-31**



Statistics
Number of obs: **1,687**
Number of missing: **320**
Minimum: **-0.02937**
25th Percentile: **0.003093**
Median: **0.008831**
Mean: **0.009**
75th Percentile: **0.01472**
Maximum: **0.145**
Stnd Dev.: **0.011**

NARSTO Flags

Flag Symbol Count

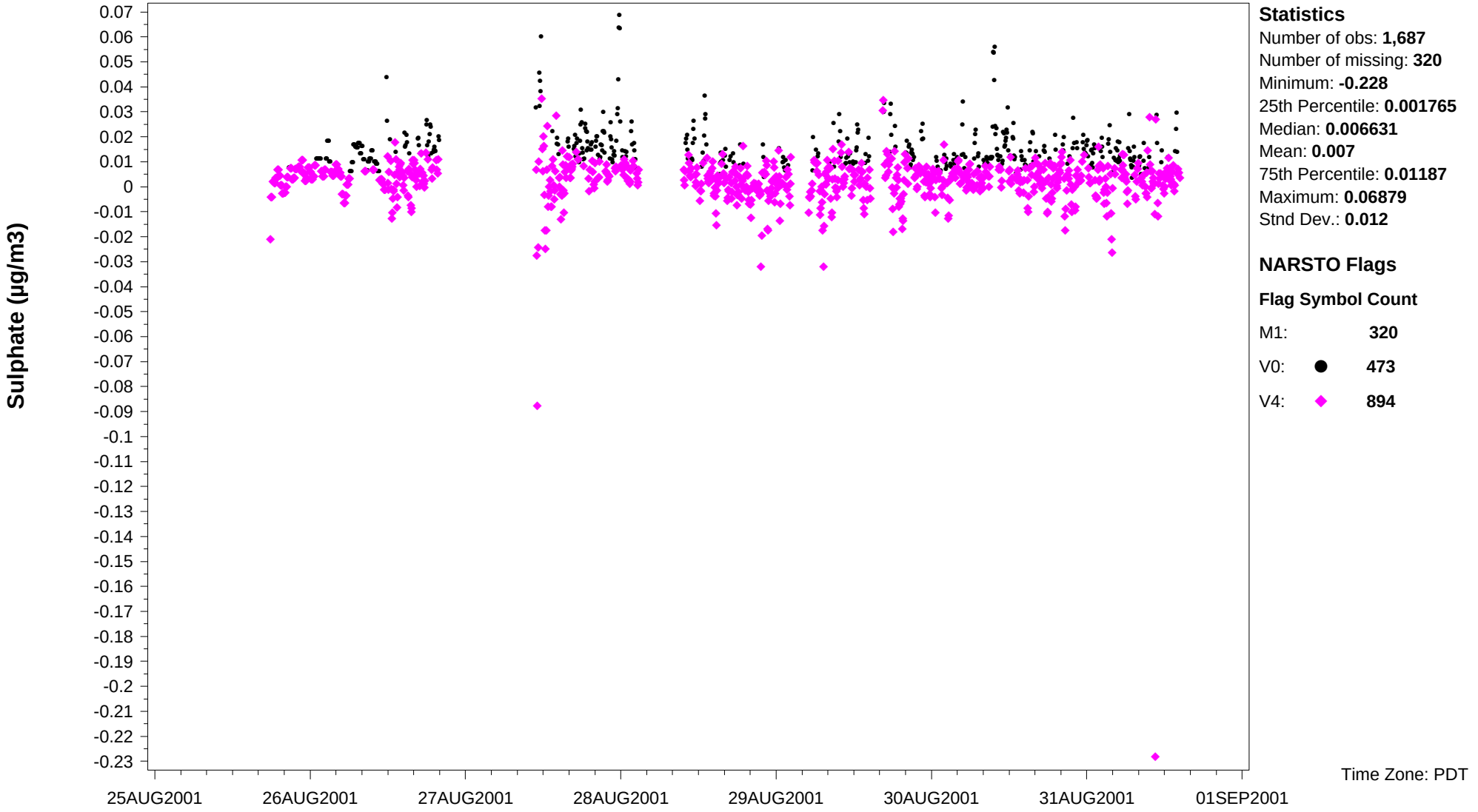
M1:		**320**
V0:	●	**653**
V4:	◆	**714**

File Name: NATCHEM_PAC2001_SMMT_WOR_SULFATE-SIZE-DIST_AMS_20010826D6_V1

NAtChem Time Series Plot 21MAR2005

Site ID: **PC01CABCSMMT** Variable name: **Sulphate** Common Name: **Sulphate** Units: **µg/m3** Sampling interval: **5 minute**
Sampling frequency: **Same as sampling interval** CAS ID: **C14808-79-8** Observation type: **Particles** Particle diameter--lower bound (UM): **1.12468**
Particle diameter--upper bound (UM): **1.19132** Particle diameter--median (UM): **1.26191** Field sampling or measurement principle: **AMS**
Inlet type: **Cyclone** Volume standardization: **Ambient temperature and pressure** Sampling Height above ground (m): **5**
Instrument name and model number: **ARI AMS** Measurement principal investigator: **Douglas Worsnop**

Site Name:**Sumas Mountain, Vancouver, British Columbia** Latitude:**49.052 deg.** Longitude:**-122.24636 deg.** Start Date:**2001-08-26** End Date:**2001-08-31**



Statistics
Number of obs: **1,687**
Number of missing: **320**
Minimum: **-0.228**
25th Percentile: **0.001765**
Median: **0.006631**
Mean: **0.007**
75th Percentile: **0.01187**
Maximum: **0.06879**
Stnd Dev.: **0.012**

NARSTO Flags

Flag Symbol Count

M1: **320**
V0: **473**
V4: **894**

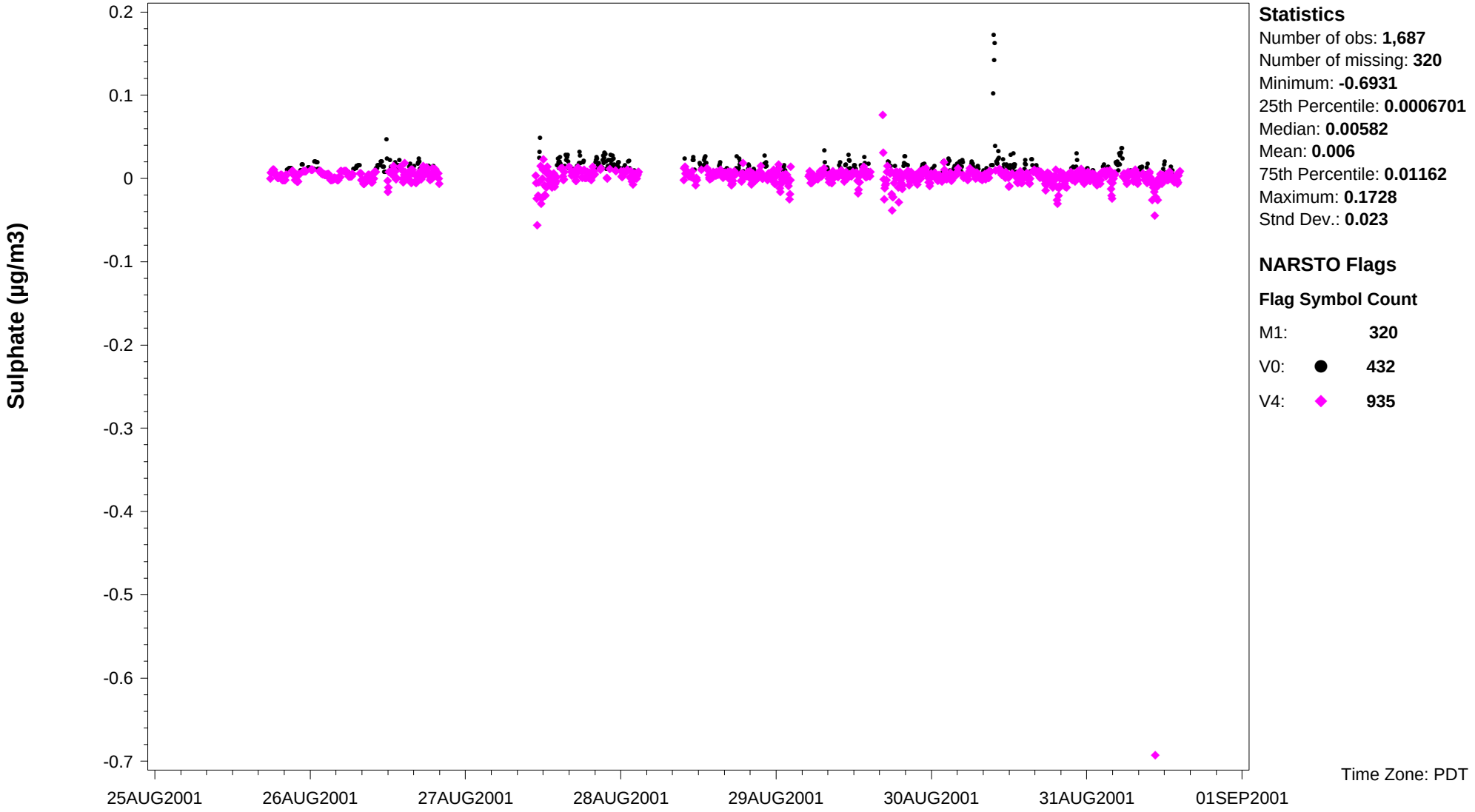
Time Zone: PDT

File Name: NATCHEM_PAC2001_SMMT_WOR_SULFATE-SIZE-DIST_AMS_20010826D6_V1

NAtChem Time Series Plot **21MAR2005**

Site ID: **PC01CABCSMMT** Variable name: **Sulphate** Common Name: **Sulphate** Units: **µg/m3** Sampling interval: **5 minute**
Sampling frequency: **Same as sampling interval** CAS ID: **C14808-79-8** Observation type: **Particles** Particle diameter--lower bound (UM): **1.26191**
Particle diameter--upper bound (UM): **1.33669** Particle diameter--median (UM): **1.41589** Field sampling or measurement principle: **AMS**
Inlet type: **Cyclone** Volume standardization: **Ambient temperature and pressure** Sampling Height above ground (m): **5**
Instrument name and model number: **ARI AMS** Measurement principal investigator: **Douglas Worsnop**

Site Name:**Sumas Mountain, Vancouver, British Columbia** Latitude:**49.052 deg.** Longitude:**-122.24636 deg.** Start Date:**2001-08-26** End Date:**2001-08-31**

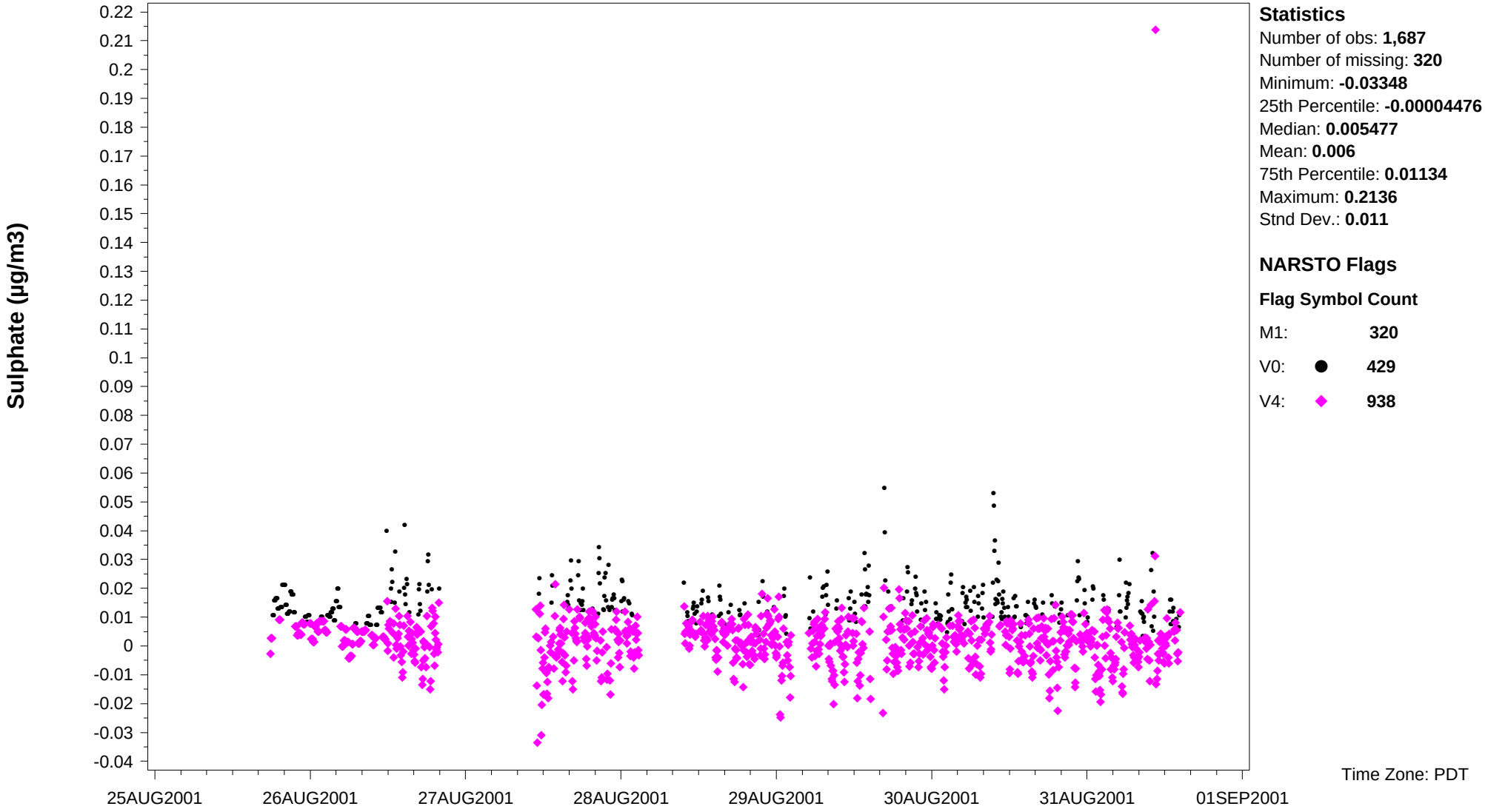


File Name: NATCHEM_PAC2001_SMMT_WOR_SULFATE-SIZE-DIST_AMS_20010826D6_V1

NAtChem Time Series Plot 21MAR2005

Site ID: **PC01CABCSMMT** Variable name: **Sulphate** Common Name: **Sulphate** Units: **µg/m3** Sampling interval: **5 minute**
Sampling frequency: **Same as sampling interval** CAS ID: **C14808-79-8** Observation type: **Particles** Particle diameter--lower bound (UM): **1.41589**
Particle diameter--upper bound (UM): **1.49979** Particle diameter--median (UM): **1.58866** Field sampling or measurement principle: **AMS**
Inlet type: **Cyclone** Volume standardization: **Ambient temperature and pressure** Sampling Height above ground (m): **5**
Instrument name and model number: **ARI AMS** Measurement principal investigator: **Douglas Worsnop**

Site Name:**Sumas Mountain, Vancouver, British Columbia** Latitude:**49.052 deg.** Longitude:**-122.24636 deg.** Start Date:**2001-08-26** End Date:**2001-08-31**



Statistics
Number of obs: **1,687**
Number of missing: **320**
Minimum: **-0.03348**
25th Percentile: **-0.00004476**
Median: **0.005477**
Mean: **0.006**
75th Percentile: **0.01134**
Maximum: **0.2136**
Stnd Dev.: **0.011**

NARSTO Flags

Flag Symbol	Count
M1:	**320**
V0: ●	**429**
V4: ◆	**938**

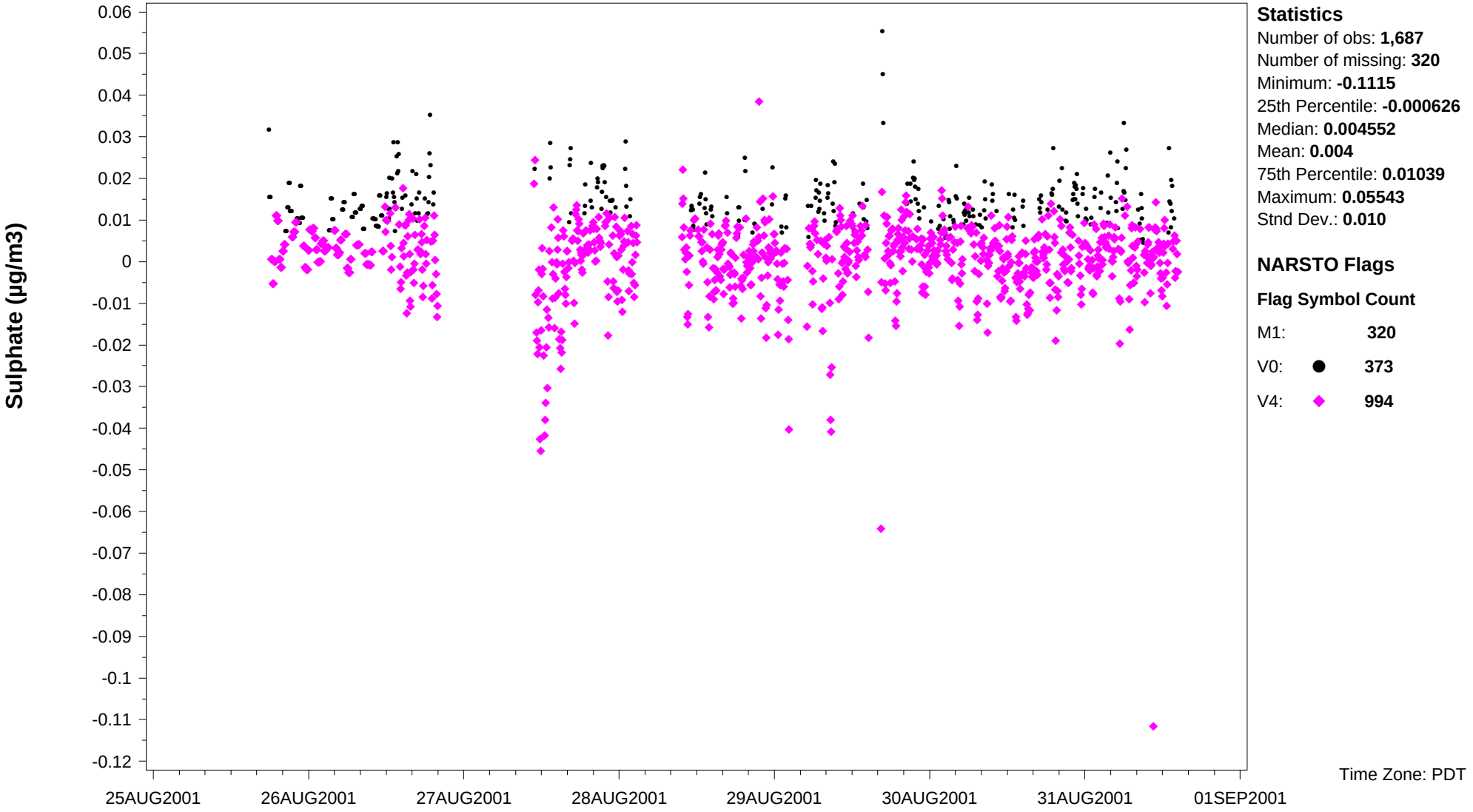
Time Zone: PDT

File Name: NATCHEM_PAC2001_SMMT_WOR_SULFATE-SIZE-DIST_AMS_20010826D6_V1

NAtChem Time Series Plot 21MAR2005

Site ID: **PC01CABCSMMT** Variable name: **Sulphate** Common Name: **Sulphate** Units: **µg/m3** Sampling interval: **5 minute**
Sampling frequency: **Same as sampling interval** CAS ID: **C14808-79-8** Observation type: **Particles** Particle diameter--lower bound (UM): **1.58866**
Particle diameter--upper bound (UM): **1.68279** Particle diameter--median (UM): **1.7825** Field sampling or measurement principle: **AMS** Inlet type: **Cyclone**
Volume standardization: **Ambient temperature and pressure** Sampling Height above ground (m): **5** Instrument name and model number: **ARI AMS**
Measurement principal investigator: **Douglas Worsnop**

Site Name:**Sumas Mountain, Vancouver, British Columbia** Latitude:**49.052 deg.** Longitude:**-122.24636 deg.** Start Date:**2001-08-26** End Date:**2001-08-31**



Statistics
Number of obs: **1,687**
Number of missing: **320**
Minimum: **-0.1115**
25th Percentile: **-0.000626**
Median: **0.004552**
Mean: **0.004**
75th Percentile: **0.01039**
Maximum: **0.05543**
Stnd Dev.: **0.010**

NARSTO Flags

Flag Symbol Count

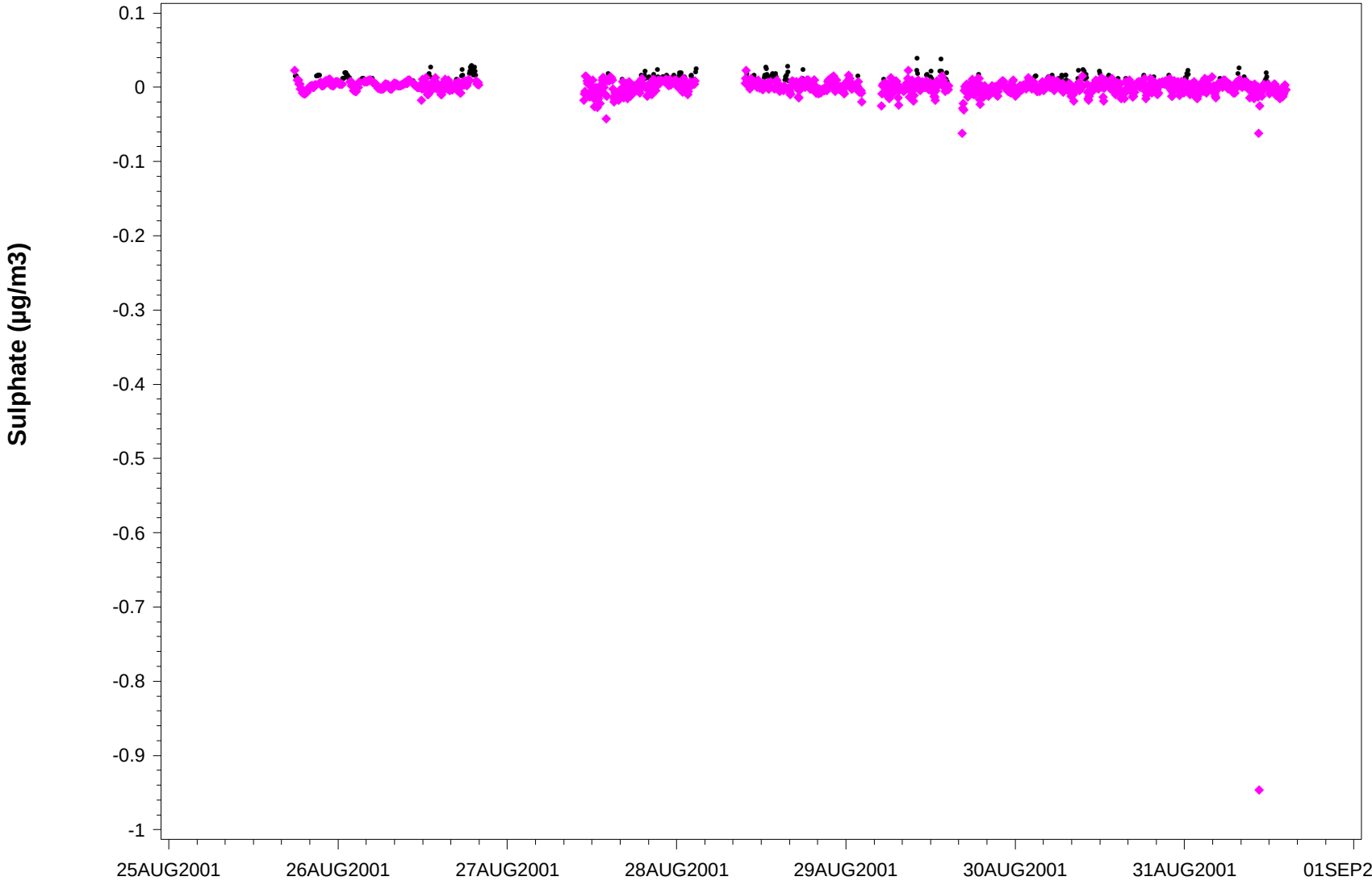
M1:		**320**
V0:	●	**373**
V4:	◆	**994**

File Name: NATCHEM_PAC2001_SMMT_WOR_SULFATE-SIZE-DIST_AMS_20010826D6_V1

NAtChem Time Series Plot 21MAR2005

Site ID: **PC01CABCSMMT** Variable name: **Sulphate** Common Name: **Sulphate** Units: **µg/m3** Sampling interval: **5 minute**
Sampling frequency: **Same as sampling interval** CAS ID: **C14808-79-8** Observation type: **Particles** Particle diameter--lower bound (UM): **1.7825**
Particle diameter--upper bound (UM): **1.88812** Particle diameter--median (UM): **2** Field sampling or measurement principle: **AMS** Inlet type: **Cyclone**
Volume standardization: **Ambient temperature and pressure** Sampling Height above ground (m): **5** Instrument name and model number: **ARI AMS**
Measurement principal investigator: **Douglas Worsnop**

Site Name:**Sumas Mountain, Vancouver, British Columbia** Latitude:**49.052 deg.** Longitude:**-122.24636 deg.** Start Date:**2001-08-26** End Date:**2001-08-31**



Statistics
Number of obs: **1,687**
Number of missing: **320**
Minimum: **-0.9465**
25th Percentile: **-0.002735**
Median: **0.002561**
Mean: **0.002**
75th Percentile: **0.008189**
Maximum: **0.03876**
Stnd Dev.: **0.027**

NARSTO Flags

Flag Symbol	Count
M1:	**320**
V0: ●	**220**
V4: ◆	**1,147**

Time Zone: PDT

File Name: NATCHEM_PAC2001_SMMT_WOR_SULFATE-SIZE-DIST_AMS_20010826D6_V1