

File Names

12:00 Monday, March 21, 2005 1

| File # | Original File Name |
|--------|--|
| 1 | PAC2001_SMMT_R-M_GAS-MEAS_1-MIN_20010814D23_V1.csv |

Dataset Key Phrases

| 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 | Country Code | State Or Province Code |
|--------------------------------|---|------------------------------------|---|---|--|-----------------------|----------------------|-------------------|--|--------------------------|-----------------------|--------------|------------------------|
| NARSTO 2002/05/28 (2.301) | Percival ; Al | GVRD | MAMU Gas Meas ; Mobile Air Monitoring Air Unit Gas Measurements | 1 minute | Same as sampling interval | 1 | YORKU | York University | Greater Vancouver Regional District (GVRD) | PAC2001 | Pacific 2001 | CA (CANADA) | ON |

| 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 | Table Explanation Of Zero Or Negative Values |
|--|----------------------------------|-----------------------------|---|---|---|--|---|--|
| Al Percival, Supervisor, Air Monitoring and Computer Services, Air Monitoring and Assessment Division, Air Quality Department, Greater Vancouver Regional District, 436-6746, al.percival@gvrd.bc.ca | None ; None | None | Caroline How, Centre for Atmospheric Chemistry, York University | 2002/06/28 | MS Excel/ 2000 | None ; None | 2004/10/15 ; 1 | The method of blank correction has not been specified by GVRD. |

| 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 |
|--|---|---|------------------|------------------|------------------|---------------|----------------|
| Not reported by GVRD. | Not reported by GVRD. | Data reported here was measured with GVRD's Moibile Air Monitoring unit. The data has been subjected to the GVRD's own internal QC/QA checks as if this were another station in their air quality network. Contact GVRD for more information on the data. | | | | MAMU Gas Meas | 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 |
|-------------|-------|---------------------|--------------------------|---------------------------|----------------------------------|--------------------------------------|---------------|-----------------------|------------------------|----------------------|--------------------------|---------------|------------------|
| PC01CABCMMT | Sumas | BC | 49.05166 | -122.24666 | 4.0 | 305.0 | Forest | Rural | 2001/08/10 | 2001/09/02 | | | 15 |

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

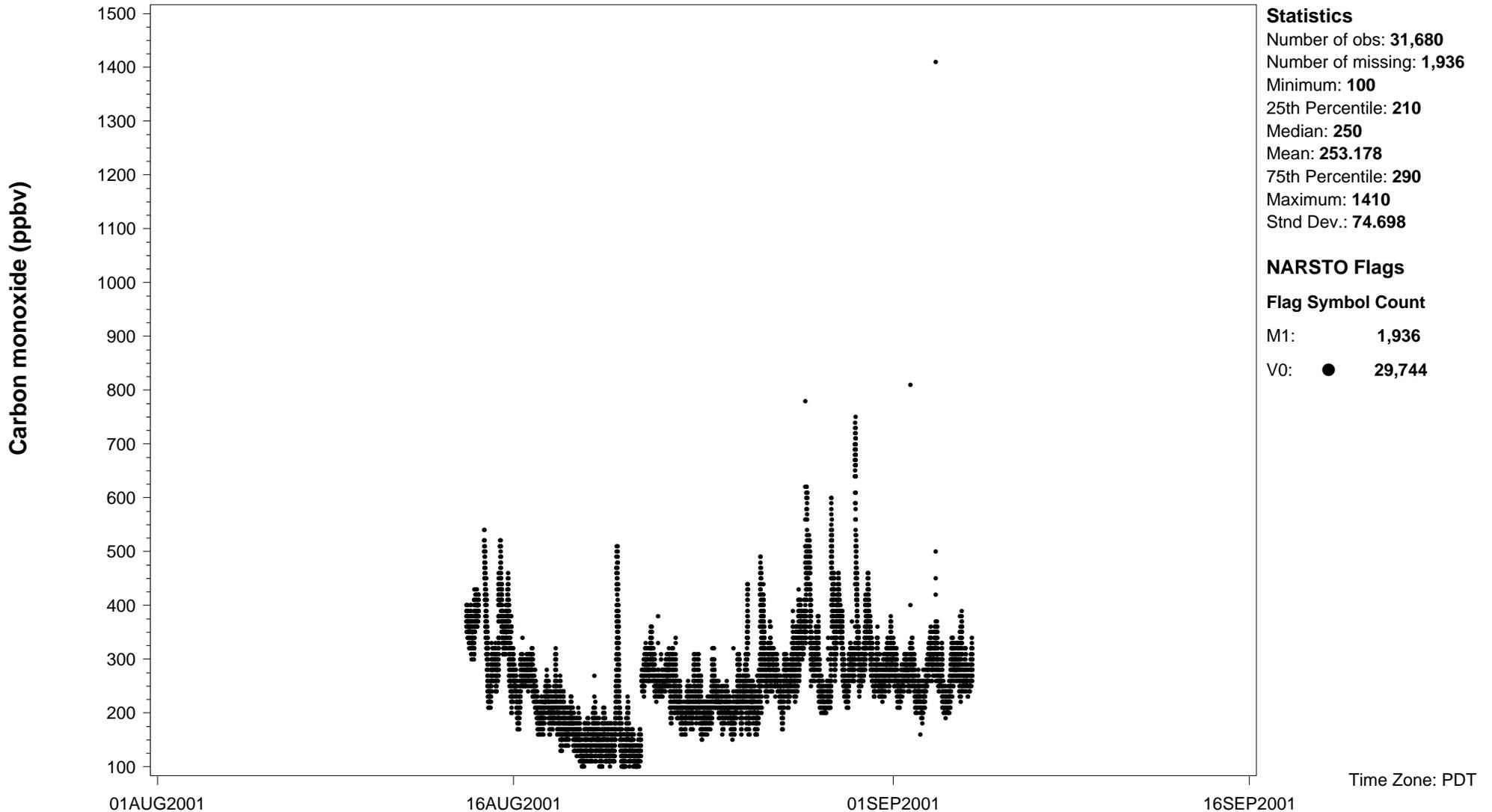
| Flag: NARSTO | Description |
|-------------------------|---|
| V7 | Valid value but set equal to the detection limit (DL) because the measured value was below the DL |
| | Valid value but set equal to the detection limit (DL) because the measured value was below the DL |
| | Valid value but set equal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

NAtChem Time Series Plot

21MAR2005

Site ID: **PC01CABCSMMT** Variable name: **Carbon monoxide** Units: **ppbv** Sampling interval: **1 minute** Sampling frequency: **Same as sampling interval**
CAS ID: **C630-08-0** Observation type: **Gas** Field sampling or measurement principle: **DACOM** Inlet type: **Filter in front of sampling line**
Blank Correction: **Blank corrected** Volume standardization: **Not available** Sampling Height above ground (m): **4**
Instrument name and model number: **Teco 48** Detection Limit: **Information not available**

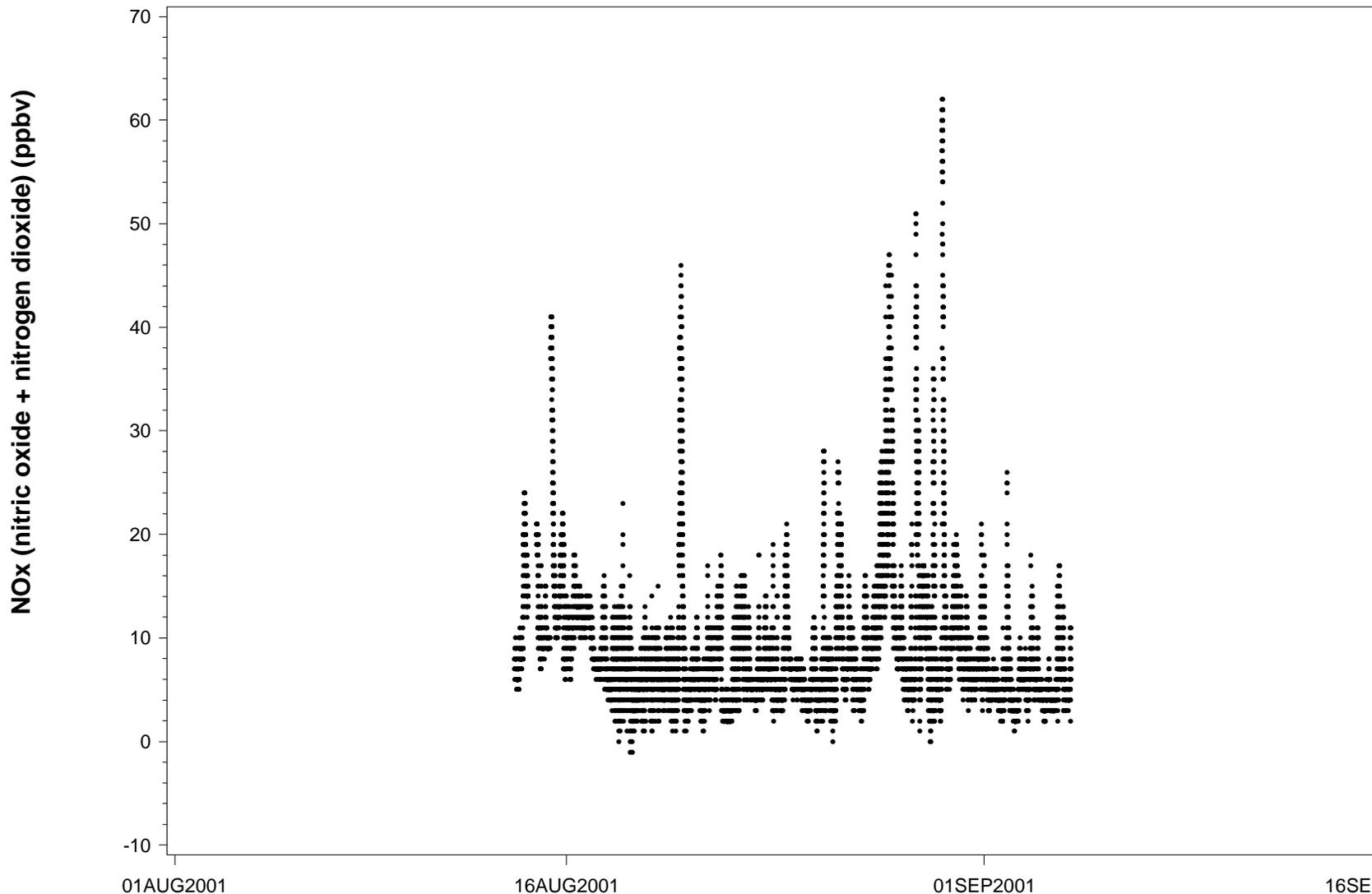
Site Name: **Sumas, British Columbia** Latitude: **49.05166 deg.** Longitude: **-122.24666 deg.** Start Date: **2001-08-10** End Date: **2001-09-02**



NAtChem Time Series Plot

21MAR2005

Site ID: **PC01CABCSMMT** Variable name: **NOx (nitric oxide + nitrogen dioxide)** Units: **ppbv** Sampling interval: **1 minute**
 Sampling frequency: **Same as sampling interval** Observation type: **Gas** Field sampling or measurement principle: **Chemiluminescence**
 Inlet type: **Filter in front of sampling line** Blank Correction: **Blank corrected** Volume standardization: **Not available**
 Sampling Height above ground (m): **4** Instrument name and model number: **ML 8840** Detection Limit: **Information not available**
 Site Name: **Sumas, British Columbia** Latitude: **49.05166 deg.** Longitude: **-122.24666 deg.** Start Date: **2001-08-10** End Date: **2001-09-02**



Statistics

Number of obs: **31,680**
 Number of missing: **2,143**
 Minimum: **-1**
 25th Percentile: **5**
 Median: **7**
 Mean: **8.339**
 75th Percentile: **10**
 Maximum: **62**
 Std Dev.: **5.806**

NARSTO Flags

Flag Symbol Count

M1: **2,143**
 V0: ● **29,537**

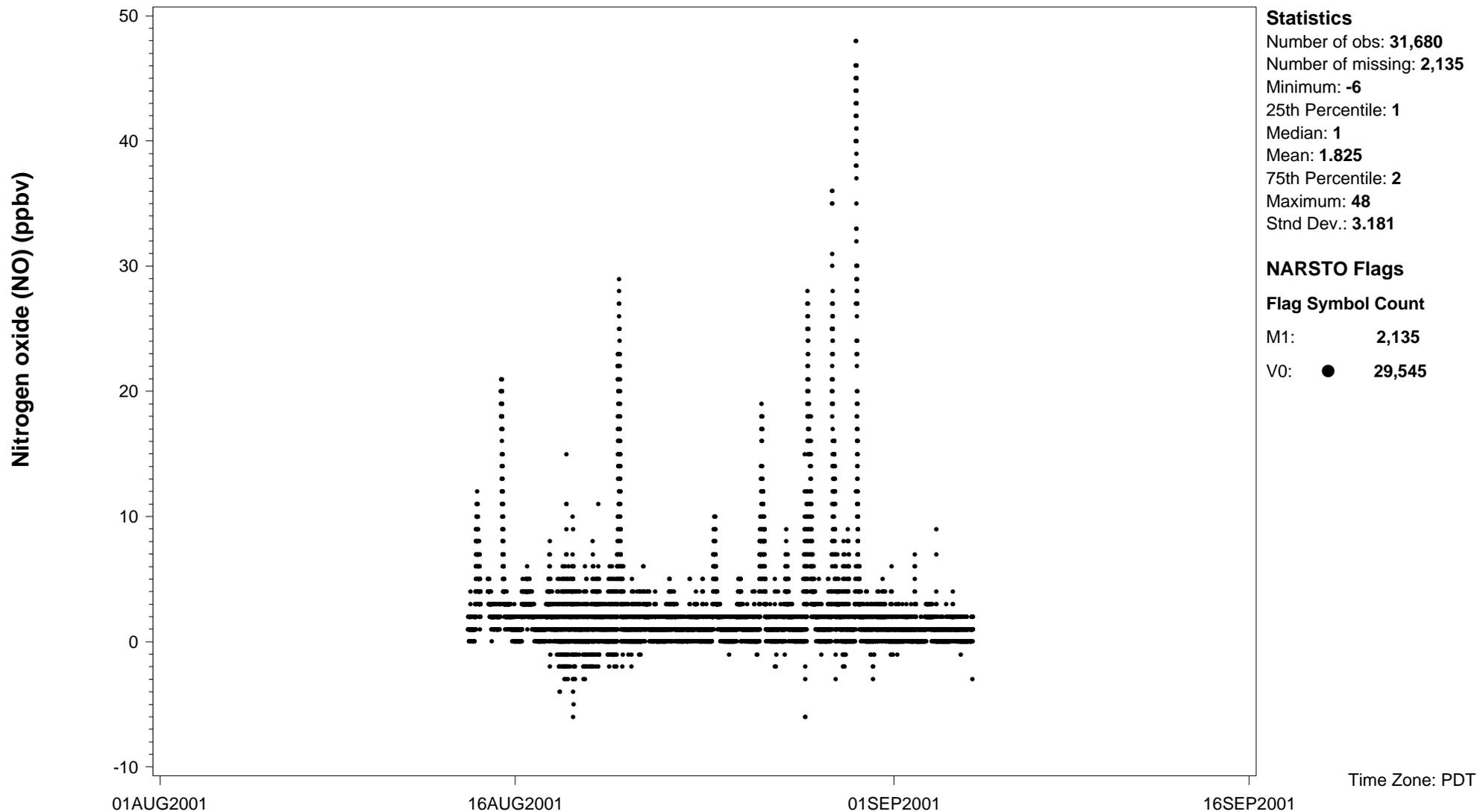
Time Zone: PDT

NATchem Time Series Plot

21MAR2005

Site ID: **PC01CABCSMMT** Variable name: **Nitrogen oxide (NO)** Units: **ppbv** Sampling interval: **1 minute** Sampling frequency: **Same as sampling interval**
CAS ID: **C10102-43-9** Observation type: **Gas** Field sampling or measurement principle: **Chemiluminescence** Inlet type: **Filter in front of sampling line**
Blank Correction: **Blank corrected** Volume standardization: **Not available** Sampling Height above ground (m): **4**
Instrument name and model number: **ML 8840** Detection Limit: **Information not available**

Site Name: **Sumas, British Columbia** Latitude: **49.05166 deg.** Longitude: **-122.24666 deg.** Start Date: **2001-08-10** End Date: **2001-09-02**

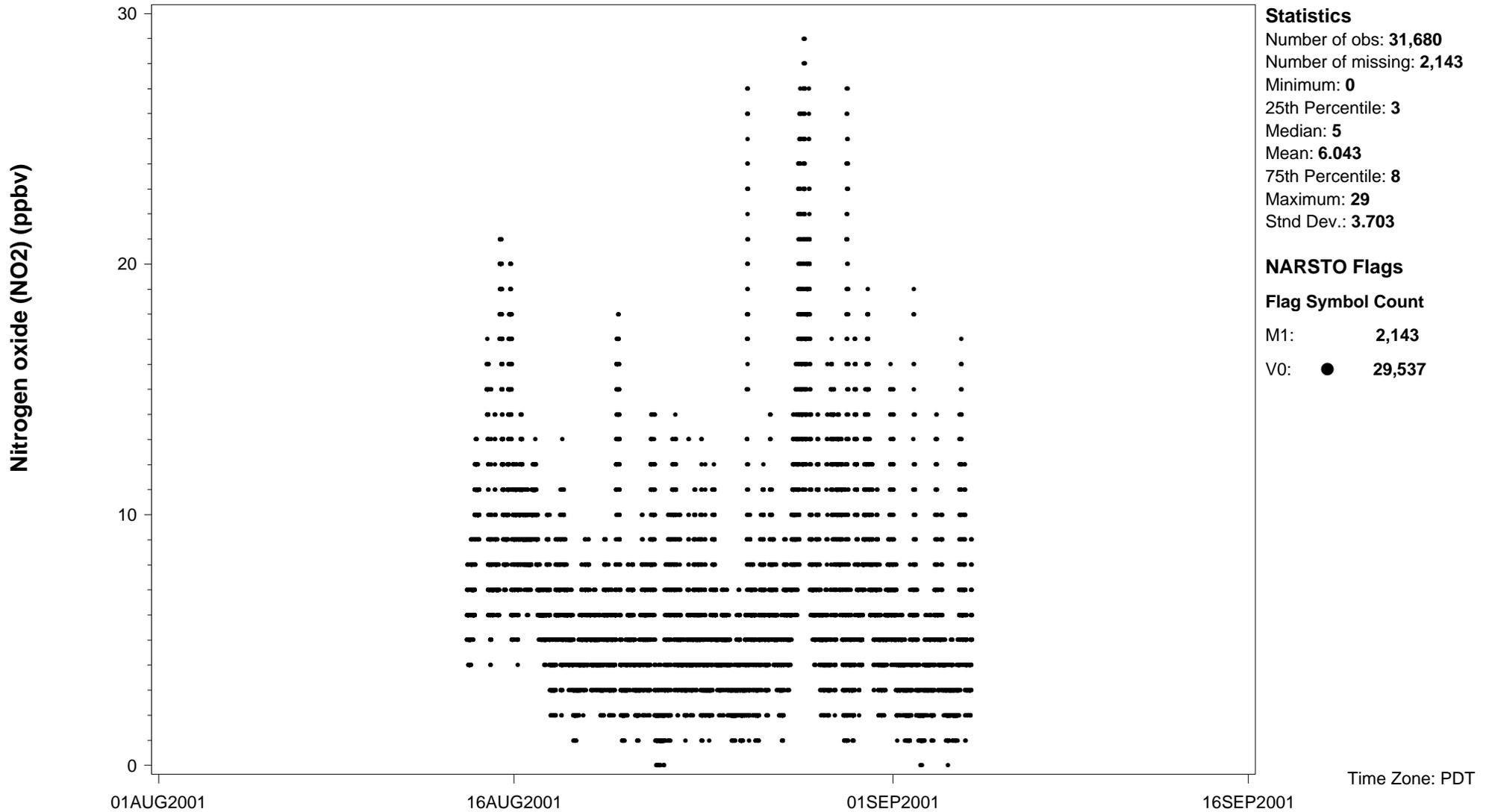


NAtChem Time Series Plot

21MAR2005

Site ID: **PC01CABCSMMT** Variable name: **Nitrogen oxide (NO2)** Units: **ppbv** Sampling interval: **1 minute** Sampling frequency: **Same as sampling interval**
 CAS ID: **C10102-44-0** Observation type: **Gas** Field sampling or measurement principle: **Chemiluminescence** Inlet type: **Filter in front of sampling line**
 Blank Correction: **Blank corrected** Volume standardization: **Not available** Sampling Height above ground (m): **4**
 Instrument name and model number: **ML 8840** Detection Limit: **Information not available**

Site Name: **Sumas, British Columbia** Latitude: **49.05166 deg.** Longitude: **-122.24666 deg.** Start Date: **2001-08-10** End Date: **2001-09-02**

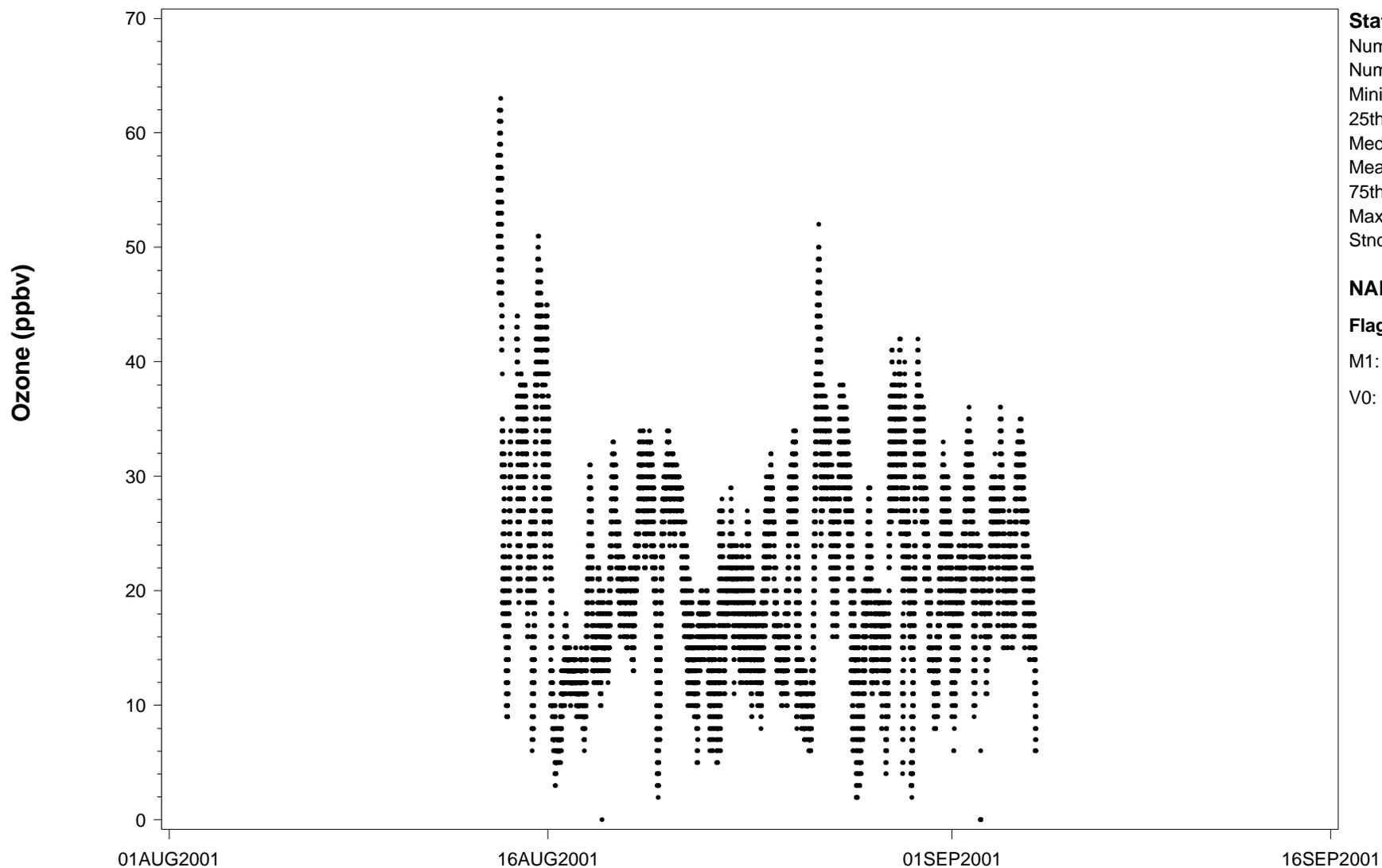


NAtChem Time Series Plot

21MAR2005

Site ID: **PC01CABCSMMT** Variable name: **Ozone** Units: **ppbv** Sampling interval: **1 minute** Sampling frequency: **Same as sampling interval** CAS ID: **C10028-15-6**
Observation type: **Gas** Field sampling or measurement principle: **Ultraviolet absorption** Inlet type: **Filter in front of sampling line**
Blank Correction: **Blank corrected** Volume standardization: **Not available** Sampling Height above ground (m): **4**
Instrument name and model number: **Teco 49** Detection Limit: **Information not available**

Site Name: **Sumas, British Columbia** Latitude: **49.05166 deg.** Longitude: **-122.24666 deg.** Start Date: **2001-08-10** End Date: **2001-09-02**



Statistics

Number of obs: **31,680**
Number of missing: **1,937**
Minimum: **0**
25th Percentile: **15**
Median: **21**
Mean: **21.535**
75th Percentile: **28**
Maximum: **63**
Std Dev.: **8.727**

NARSTO Flags

Flag Symbol Count

M1: **1,937**
V0: ● **29,743**

Time Zone: PDT

NAtChem Time Series Plot

21MAR2005

Site ID: **PC01CABCSMMT** Variable name: **Sulfur dioxide** Units: **ppbv** Sampling interval: **1 minute** Sampling frequency: **Same as sampling interval**
 CAS ID: **C7446-09-5** Observation type: **Gas** Field sampling or measurement principle: **Pulsed fluorescence** Inlet type: **Filter in front of sampling line**
 Blank Correction: **Blank corrected** Volume standardization: **Not available** Sampling Height above ground (m): **4**
 Instrument name and model number: **ML 8850** Detection Limit: **Information not available**

Site Name: **Sumas, British Columbia** Latitude: **49.05166 deg.** Longitude: **-122.24666 deg.** Start Date: **2001-08-10** End Date: **2001-09-02**

