

File Names

09:53 Monday, March 21, 2005 1

File #	Original File Name
1	PAC2001_GEPP_PCB_OVOC_GC-FID_20010803D09_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
NARSTO 2001/10/31 (2.213)	Brickell ; Peter	Air Research Quaility Monitoring, MSC, EC	OVOC ; Speciated oxygenated volatile organic compound gas phase measurements	10 minute	Variable interval	1	ENVCAN	Environment Canada	Environment Canada, Meteorological Service of Canada, 4905 Dufferin St., Toronto, Ont. Canada M3H 5T4	PAC2001	Pacific 2001	CA (CANADA)

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	Table Explanation Of Zero Or Negative Values
ON	P. Brickell, MSC, 4905 Dufferin Street, Toronto, ON M3H 5T4 peter.brickell@ec.gc.ca	None ; None	None	Jennifer Gibb, Environment Canada	2002/02/22	MS Excel/2002	None ; 0	2004/11/08 ; 1	No zero or negative values in this table.

Table Explanation Of Reported Detection Limit Values	Table Explanation Of Reported Uncertainty	Table User Note	Table User Note2	Table User Note3	Table User Note4
Below detection limit values are reported as the quantitation limit based on minimum area counts that could be repeatably integrated. They are flagged as V7.		Sampling intervals differ slightly due to GC oven cooling time and Tekmar trap cooling time, which varied from sample to sample depending on the liquid nitrogen tank pressure.	Run column added as all lab notes and raw data files use this reference.	Ethanal data points were removed due to suspect calibration factors. Butanal, 2-butanone and 2-propanol data points were removed due to suspect detection limits.	

Table Name	Table Focus
OVOC SPECIES	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
PC01CABCGEPP	Golden Ears Provincial Park	BC	49.27783	-122.51544	5.0	203.0	Remote park	Rural	2001/08/03	2001/08/11			.

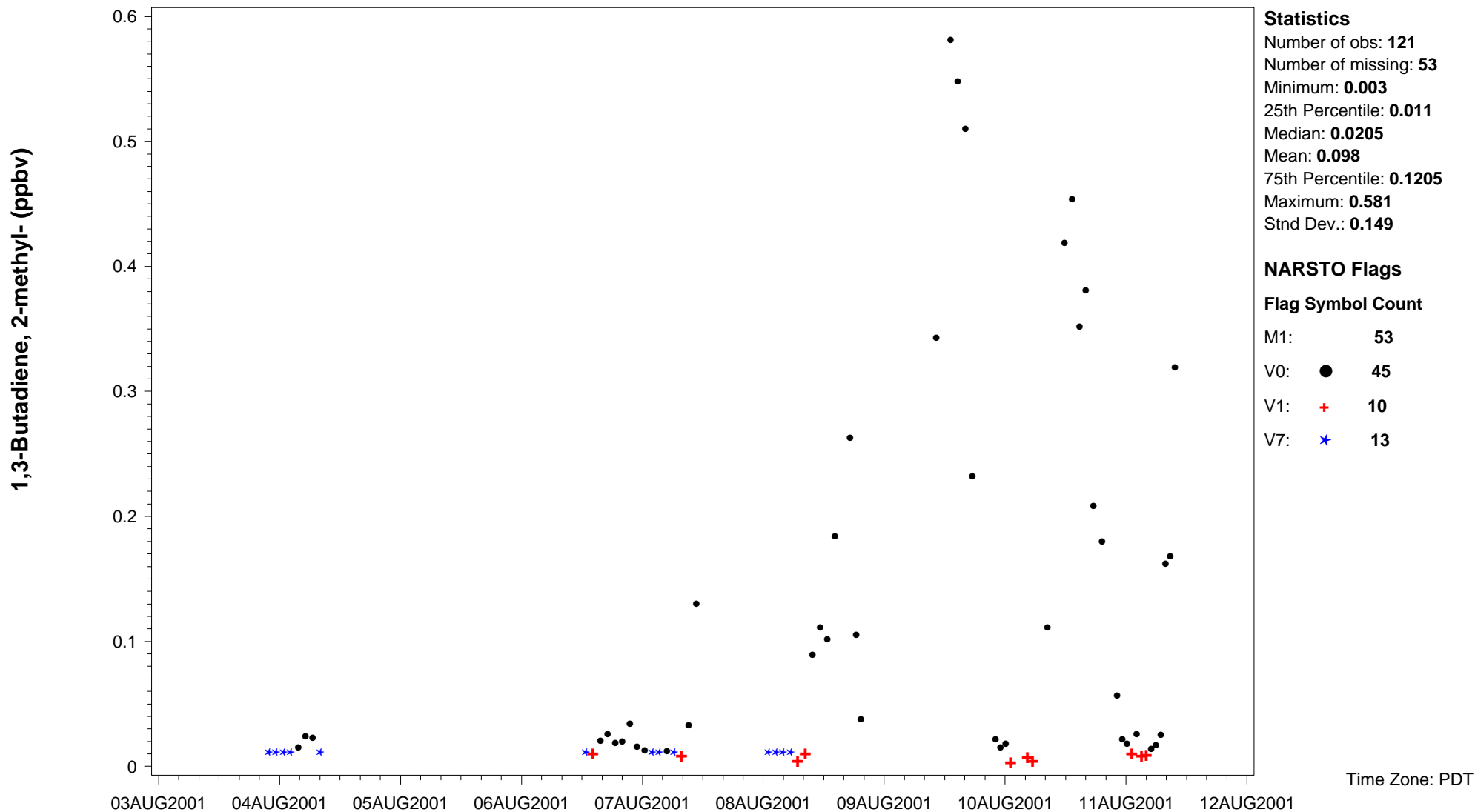
NARSTO Standard Flags

Flag: NARSTO	Description
H1	Historical data that have not been assessed or validated
	Historical data that have not been assessed or validated
M1	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
V0	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
V2	Valid estimated value
	Valid estimated value
V3	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
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)
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)
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

NAtChem Time Series Plot

21MAR2005

Site ID: **PC01CABCGEPP** Variable name: **1,3-Butadiene, 2-methyl-** Common Name: **Isoprene** Units: **ppbv** Sampling interval: **10 minute** CAS ID: **C78-79-5**
 Observation type: **Gas** Field sampling or measurement principle: **GC-FID** Inlet type: **Open sampling line** Laboratory analytical method: **GC**
 Blank Correction: **Blank corrected** Sampling Height above ground (m): **Undetermined** Instrument name and model number: **HP 5890**
 Site Name: **Golden Ears Provincial Park, British Columbia** Latitude: **49.27783 deg.** Longitude: **-122.51544 deg.** Start Date: **2001-08-03** End Date: **2001-08-11**

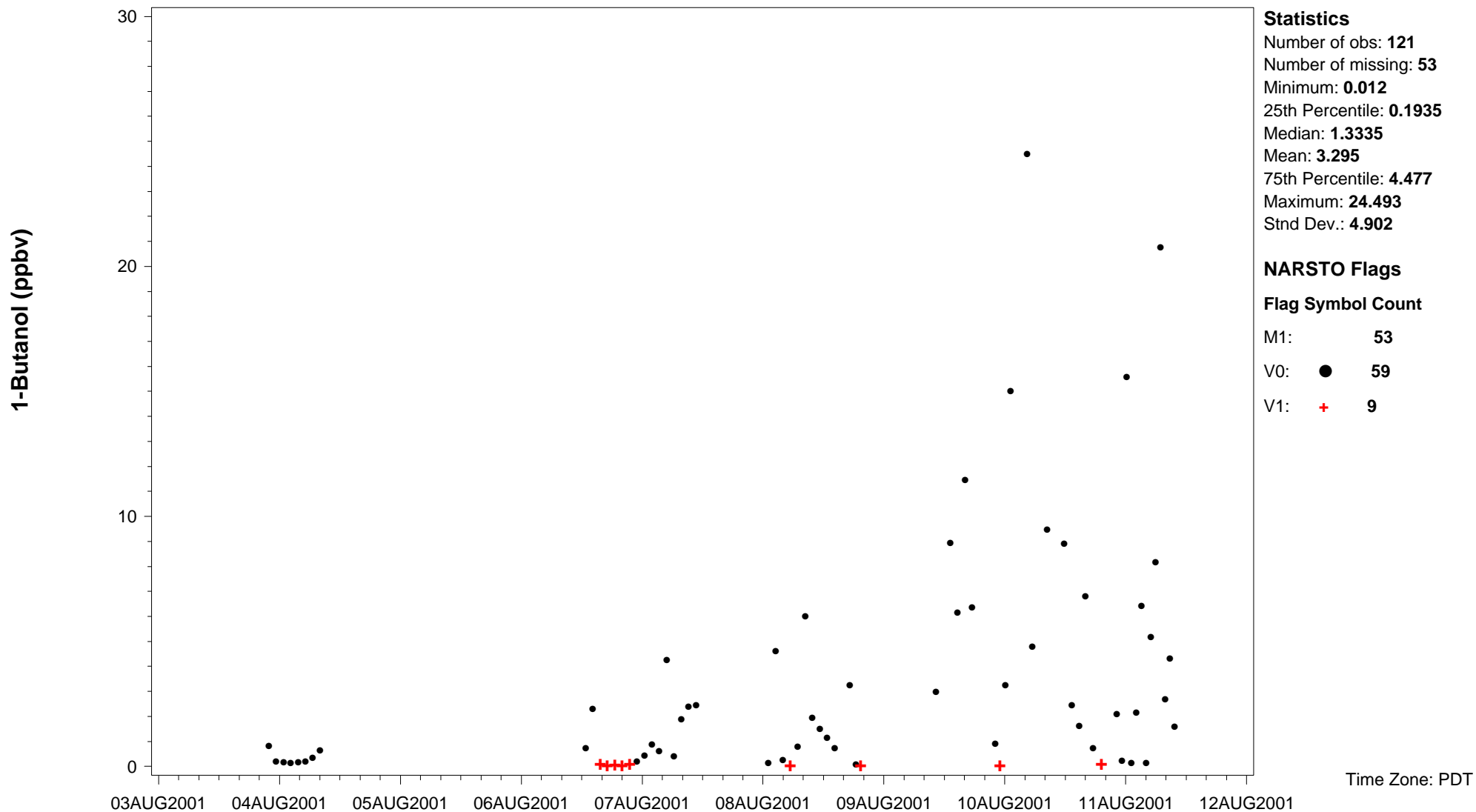


NAtChem Time Series Plot

21MAR2005

Site ID: **PC01CABCGEPP** Variable name: **1-Butanol** Common Name: **1-Butanol** Units: **ppbv** Sampling interval: **10 minute** CAS ID: **C71-36-3** Observation type: **Gas**
 Field sampling or measurement principle: **GC-FID** Inlet type: **Open sampling line** Laboratory analytical method: **GC** Blank Correction: **Blank corrected**
 Sampling Height above ground (m): **Undetermined** Instrument name and model number: **HP 5890**

Site Name: **Golden Ears Provincial Park, British Columbia** Latitude: **49.27783 deg.** Longitude: **-122.51544 deg.** Start Date: **2001-08-03** End Date: **2001-08-11**

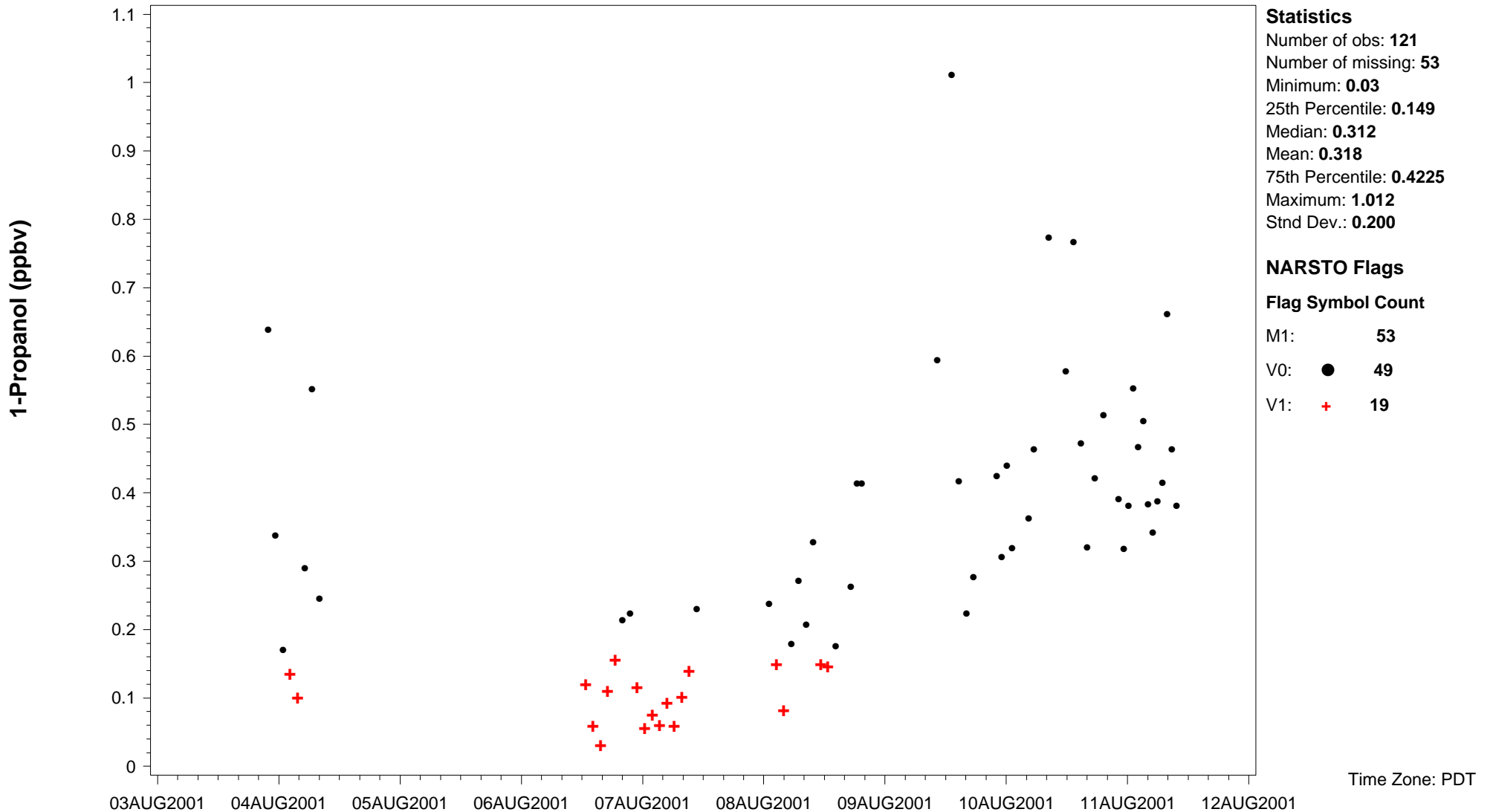


NAtChem Time Series Plot

21MAR2005

Site ID: **PC01CABCGEPP** Variable name: **1-Propanol** Units: **ppbv** Sampling interval: **10 minute** CAS ID: **C71-23-8** Observation type: **Gas**
 Field sampling or measurement principle: **GC-FID** Inlet type: **Open sampling line** Laboratory analytical method: **GC** Blank Correction: **Blank corrected**
 Sampling Height above ground (m): **Undetermined** Instrument name and model number: **HP 5890**

Site Name: **Golden Ears Provincial Park, British Columbia** Latitude: **49.27783 deg.** Longitude: **-122.51544 deg.** Start Date: **2001-08-03** End Date: **2001-08-11**

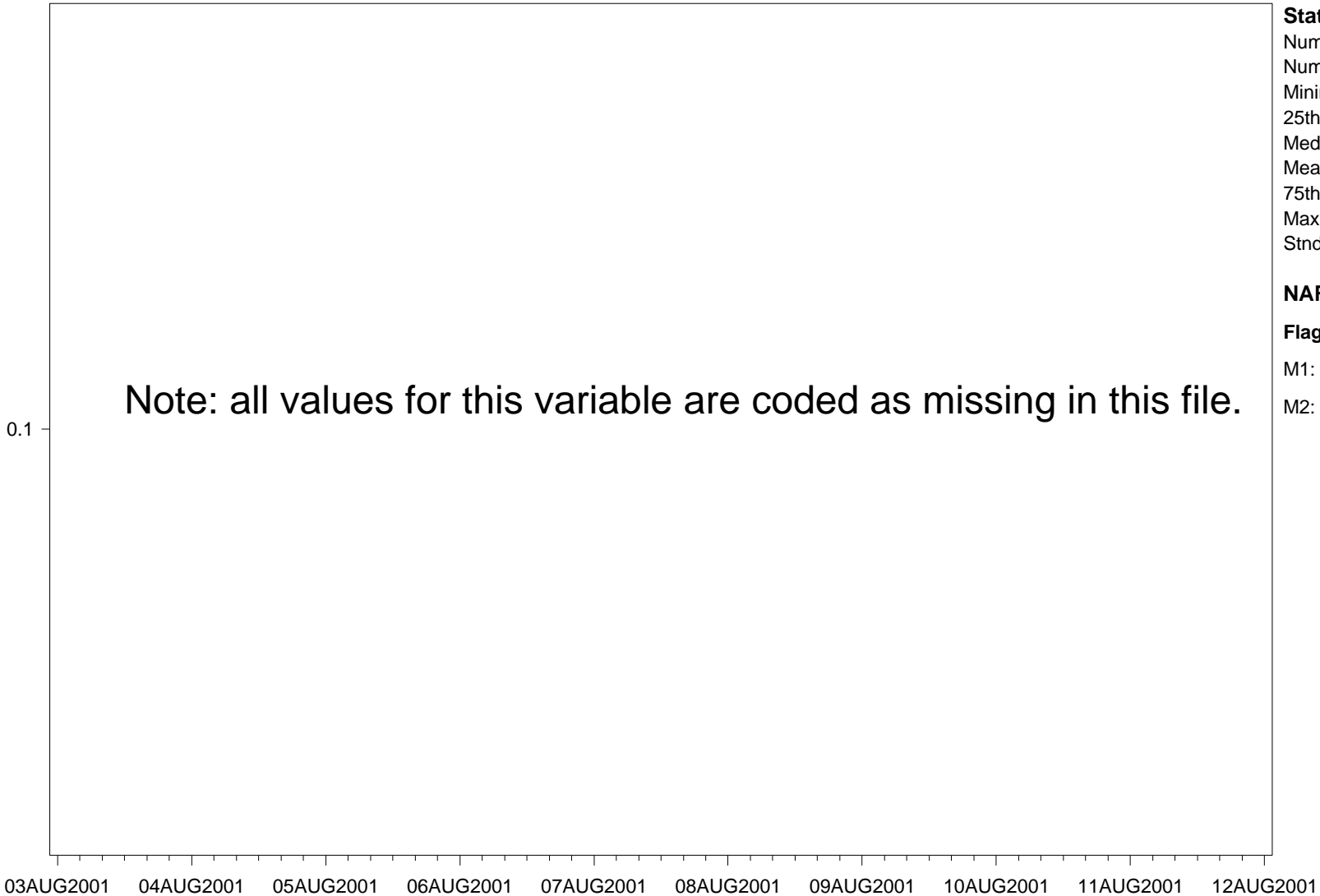


NAtChem Time Series Plot

21MAR2005

Site ID: **PC01CABCGEPP** Variable name: **2-Butanone** Common Name: **Methyl Ethyl Ketone** Units: **ppbv** Sampling interval: **10 minute** CAS ID: **C78-93-3**
Observation type: **Gas** Field sampling or measurement principle: **GC-FID** Inlet type: **Open sampling line** Laboratory analytical method: **GC**
Blank Correction: **Blank corrected** Sampling Height above ground (m): **Undetermined** Instrument name and model number: **HP 5890**
Site Name: **Golden Ears Provincial Park, British Columbia** Latitude: **49.27783 deg.** Longitude: **-122.51544 deg.** Start Date: **2001-08-03** End Date: **2001-08-11**

2-Butanone (ppbv)



Statistics

Number of obs: **121**
Number of missing: **121**
Minimum: .
25th Percentile: .
Median: .
Mean: .
75th Percentile: .
Maximum: .
Std Dev.: .

NARSTO Flags

Flag Symbol Count

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M2:	68

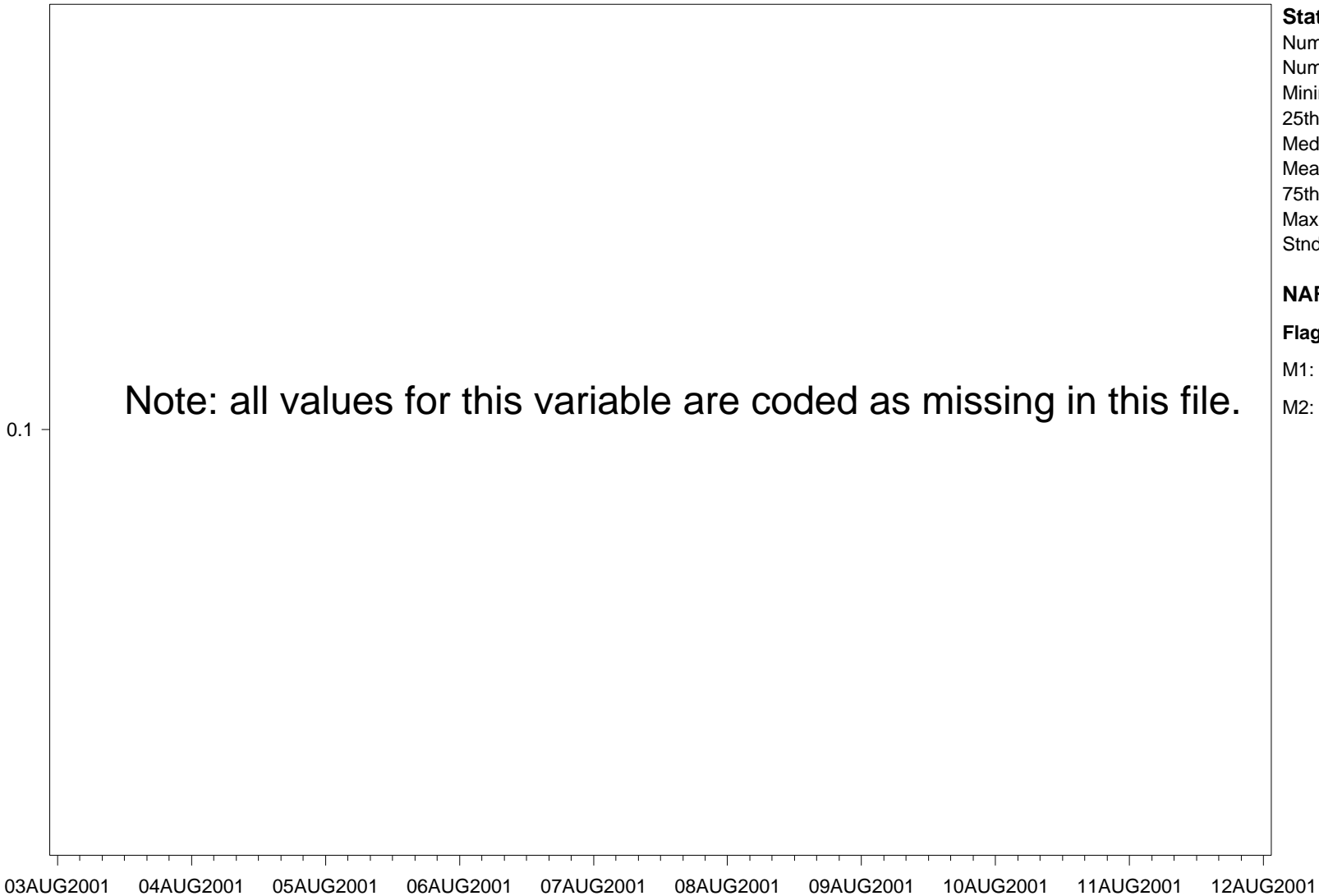
Time Zone: PDT

NAtChem Time Series Plot

21MAR2005

Site ID: **PC01CABCGEPP** Variable name: **2-Propanol** Common Name: **Isopropyl Alcohol** Units: **ppbv** Sampling interval: **10 minute** CAS ID: **C67-63-0**
Observation type: **Gas** Field sampling or measurement principle: **GC-FID** Inlet type: **Open sampling line** Laboratory analytical method: **GC**
Blank Correction: **Blank corrected** Sampling Height above ground (m): **Undetermined** Instrument name and model number: **HP 5890**
Site Name: **Golden Ears Provincial Park, British Columbia** Latitude: **49.27783 deg.** Longitude: **-122.51544 deg.** Start Date: **2001-08-03** End Date: **2001-08-11**

2-Propanol (ppbv)



Statistics

Number of obs: **121**
Number of missing: **121**
Minimum: .
25th Percentile: .
Median: .
Mean: .
75th Percentile: .
Maximum: .
Std Dev.: .

NARSTO Flags

Flag Symbol Count

M1: **53**
M2: **68**

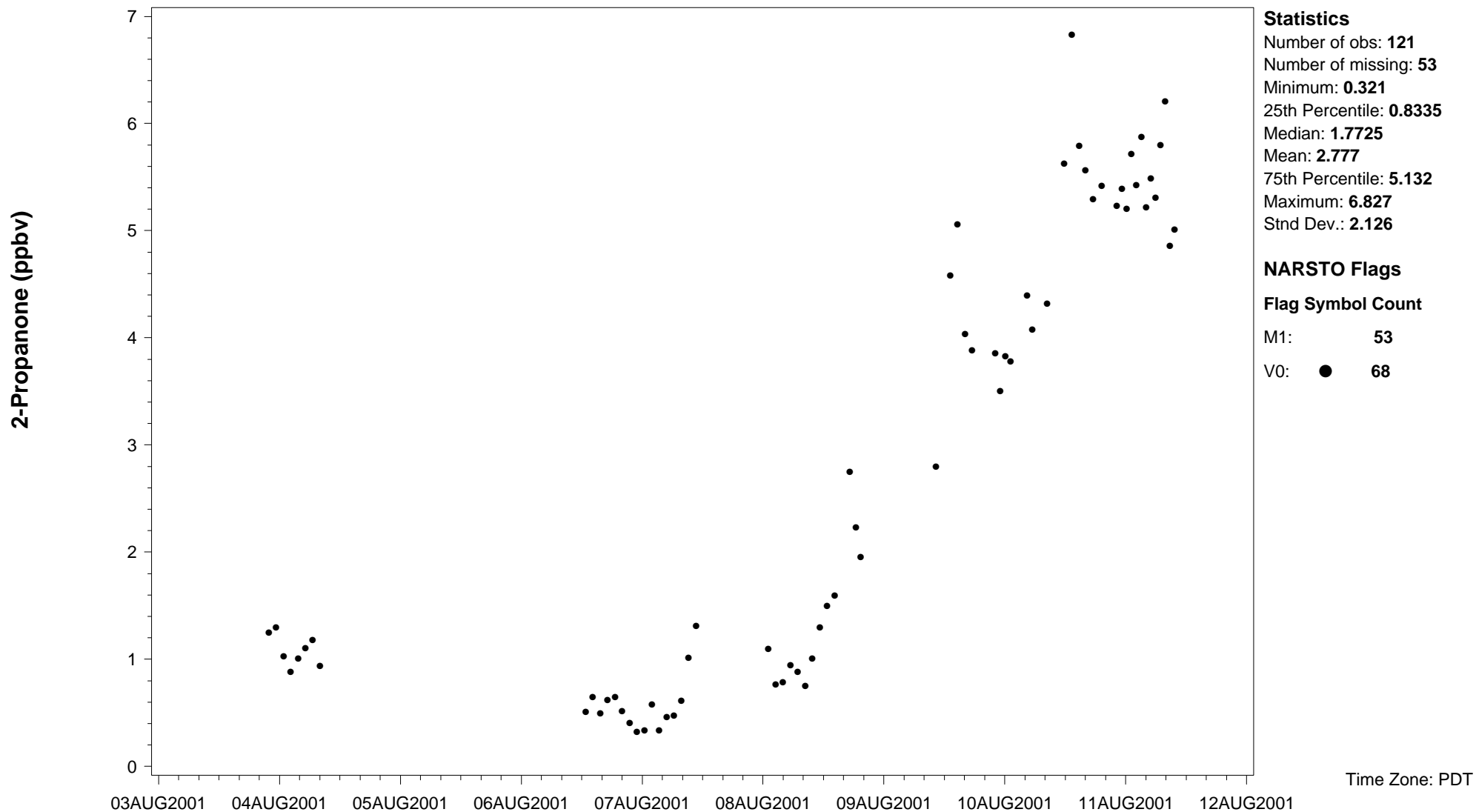
Time Zone: PDT

NAtChem Time Series Plot

21MAR2005

Site ID: **PC01CABCGEPP** Variable name: **2-Propanone** Common Name: **Acetone** Units: **ppbv** Sampling interval: **10 minute** CAS ID: **C67-64-1** Observation type: **Gas**
 Field sampling or measurement principle: **GC-FID** Inlet type: **Open sampling line** Laboratory analytical method: **GC** Blank Correction: **Blank corrected**
 Sampling Height above ground (m): **Undetermined** Instrument name and model number: **HP 5890**

Site Name: **Golden Ears Provincial Park, British Columbia** Latitude: **49.27783 deg.** Longitude: **-122.51544 deg.** Start Date: **2001-08-03** End Date: **2001-08-11**

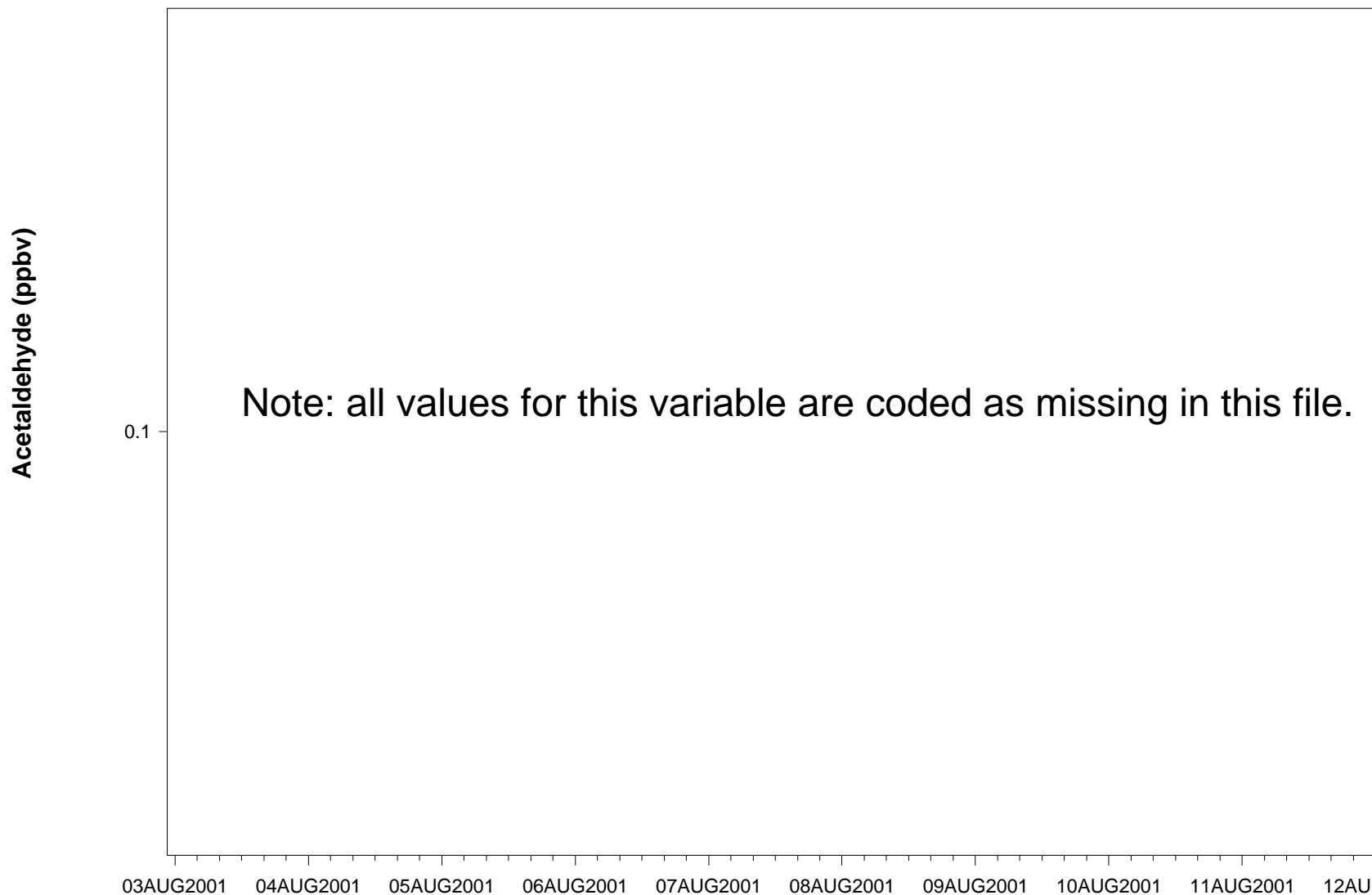


NAtChem Time Series Plot

21MAR2005

Site ID: **PC01CABCGEPP** Variable name: **Acetaldehyde** Common Name: **Acetaldehyde** Units: **ppbv** Sampling interval: **10 minute** CAS ID: **C75-07-0**
Observation type: **Gas** Field sampling or measurement principle: **GC-FID** Inlet type: **Open sampling line** Laboratory analytical method: **GC**
Blank Correction: **Blank corrected** Sampling Height above ground (m): **Undetermined** Instrument name and model number: **HP 5890**

Site Name: **Golden Ears Provincial Park, British Columbia** Latitude: **49.27783 deg.** Longitude: **-122.51544 deg.** Start Date: **2001-08-03** End Date: **2001-08-11**



Statistics

Number of obs: **121**
Number of missing: **121**
Minimum: .
25th Percentile: .
Median: .
Mean: .
75th Percentile: .
Maximum: .
Std Dev.: .

NARSTO Flags

Flag Symbol Count

M1:	53
M2:	68

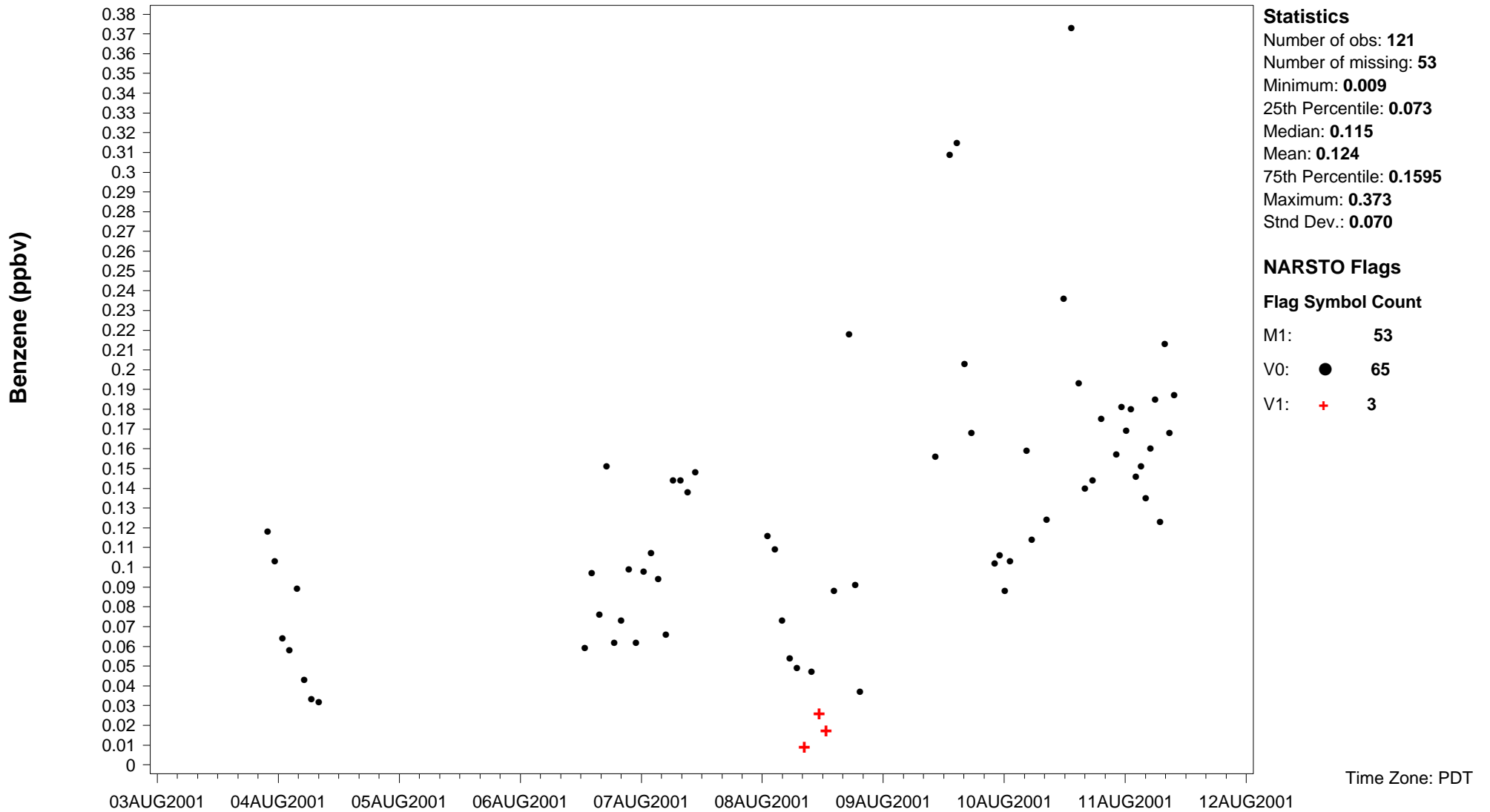
Time Zone: PDT

NAtChem Time Series Plot

21MAR2005

Site ID: **PC01CABCGEPP** Variable name: **Benzene** Common Name: **Benzene** Units: **ppbv** Sampling interval: **10 minute** CAS ID: **C71-43-2** Observation type: **Gas**
 Field sampling or measurement principle: **GC-FID** Inlet type: **Open sampling line** Laboratory analytical method: **GC** Blank Correction: **Blank corrected**
 Sampling Height above ground (m): **Undetermined** Instrument name and model number: **HP 5890**

Site Name: **Golden Ears Provincial Park, British Columbia** Latitude: **49.27783 deg.** Longitude: **-122.51544 deg.** Start Date: **2001-08-03** End Date: **2001-08-11**

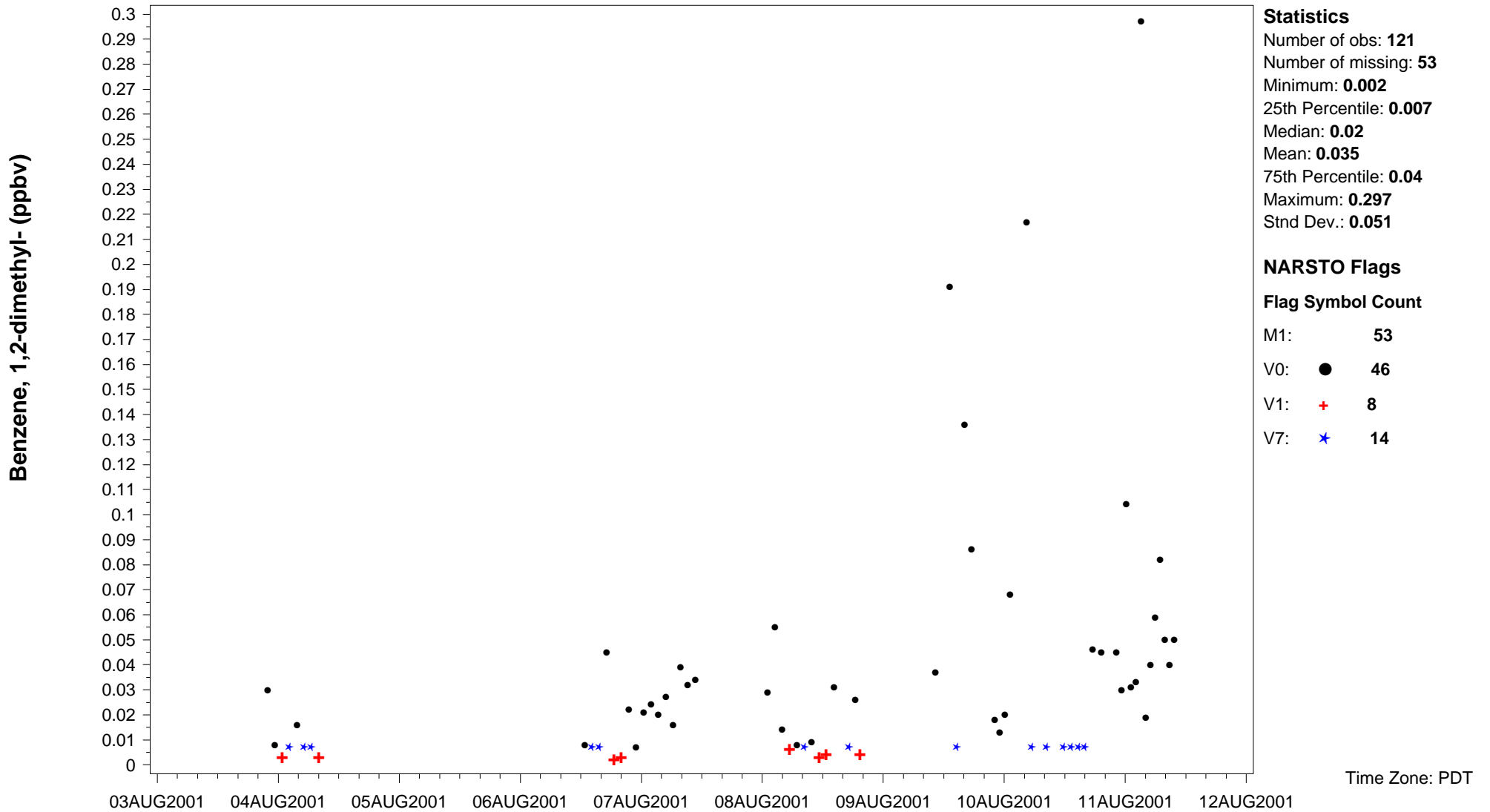


NAtChem Time Series Plot

21MAR2005

Site ID: **PC01CABCGEPP** Variable name: **Benzene, 1,2-dimethyl-** Common Name: **o-Xylene** Units: **ppbv** Sampling interval: **10 minute** CAS ID: **C95-47-6**
 Observation type: **Gas** Field sampling or measurement principle: **GC-FID** Inlet type: **Open sampling line** Laboratory analytical method: **GC**
 Blank Correction: **Blank corrected** Sampling Height above ground (m): **Undetermined** Instrument name and model number: **HP 5890**

Site Name: **Golden Ears Provincial Park, British Columbia** Latitude: **49.27783 deg.** Longitude: **-122.51544 deg.** Start Date: **2001-08-03** End Date: **2001-08-11**

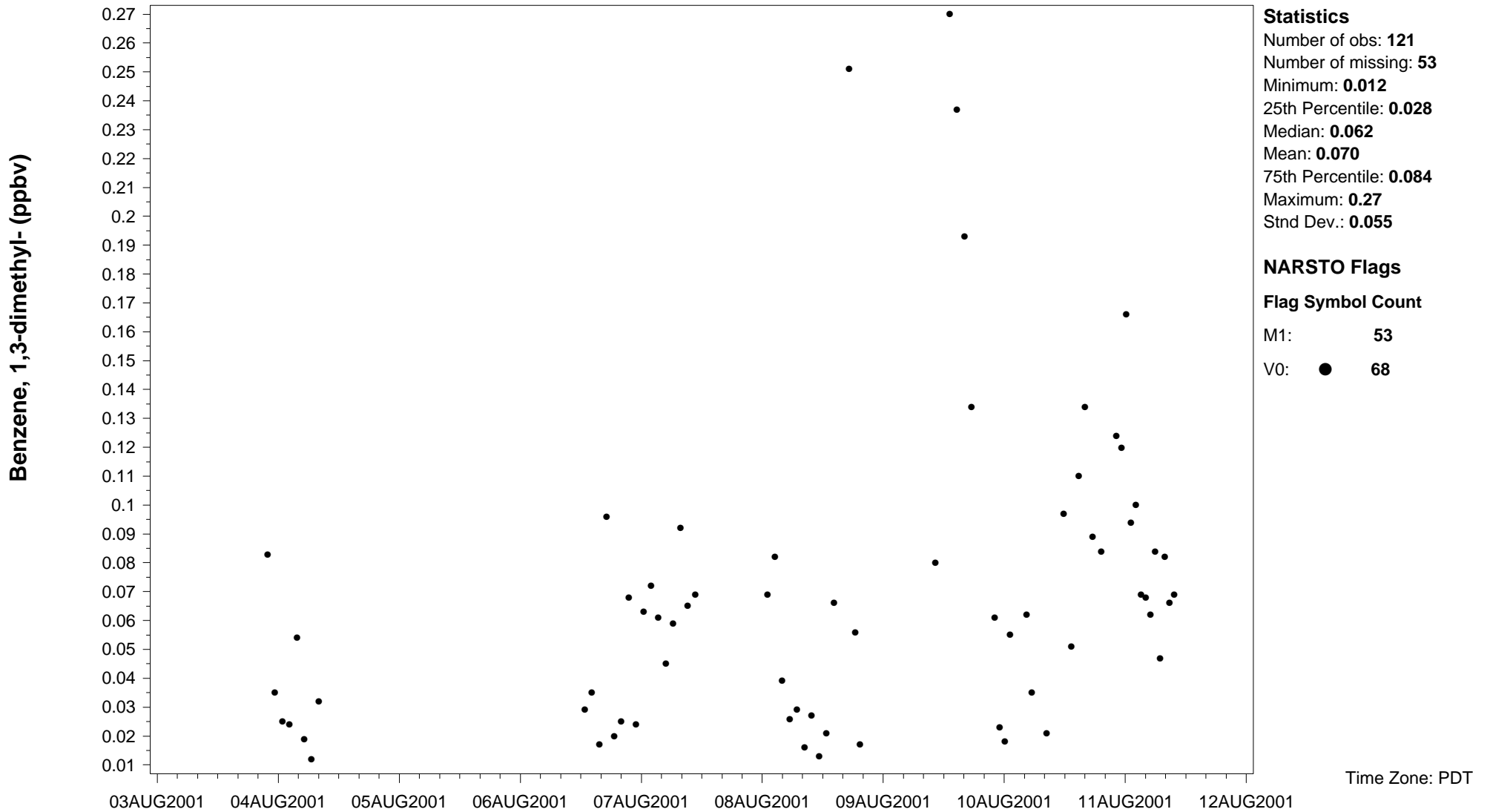


NAtChem Time Series Plot

21MAR2005

Site ID: **PC01CABCGEPP** Variable name: **Benzene, 1,3-dimethyl-** Units: **ppbv** Sampling interval: **10 minute** CAS ID: **C108-38-3** Observation type: **Gas**
 Field sampling or measurement principle: **GC-FID** Inlet type: **Open sampling line** Laboratory analytical method: **GC** Blank Correction: **Blank corrected**
 Sampling Height above ground (m): **Undetermined** Instrument name and model number: **HP 5890**

Site Name: **Golden Ears Provincial Park, British Columbia** Latitude: **49.27783 deg.** Longitude: **-122.51544 deg.** Start Date: **2001-08-03** End Date: **2001-08-11**

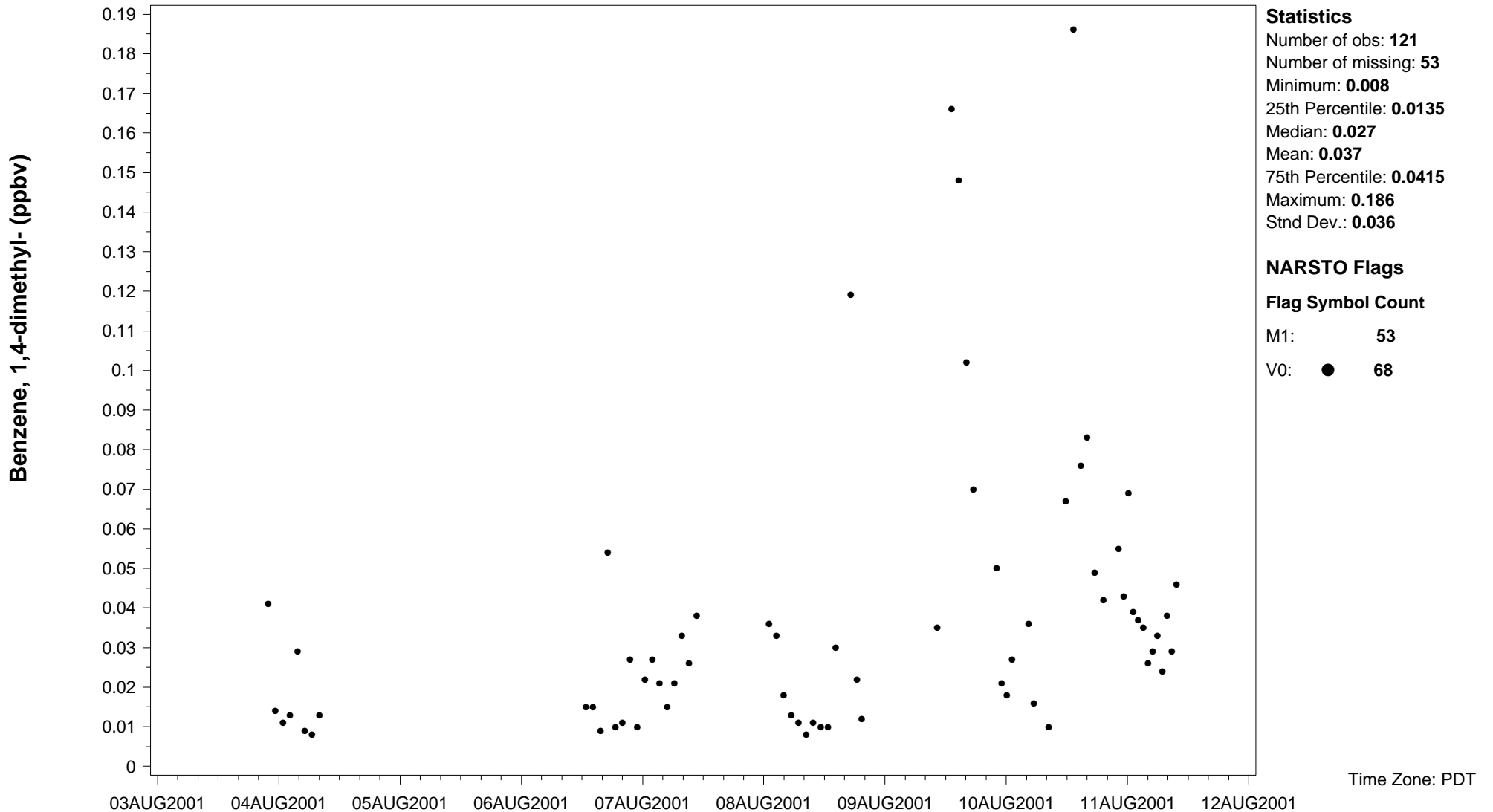


NAtChem Time Series Plot

21MAR2005

Site ID: **PC01CABCGEPP** Variable name: **Benzene, 1,4-dimethyl-** Units: **ppbv** Sampling interval: **10 minute** CAS ID: **C106-42-3** Observation type: **Gas**
 Field sampling or measurement principle: **GC-FID** Inlet type: **Open sampling line** Laboratory analytical method: **GC** Blank Correction: **Blank corrected**
 Sampling Height above ground (m): **Undetermined** Instrument name and model number: **HP 5890**

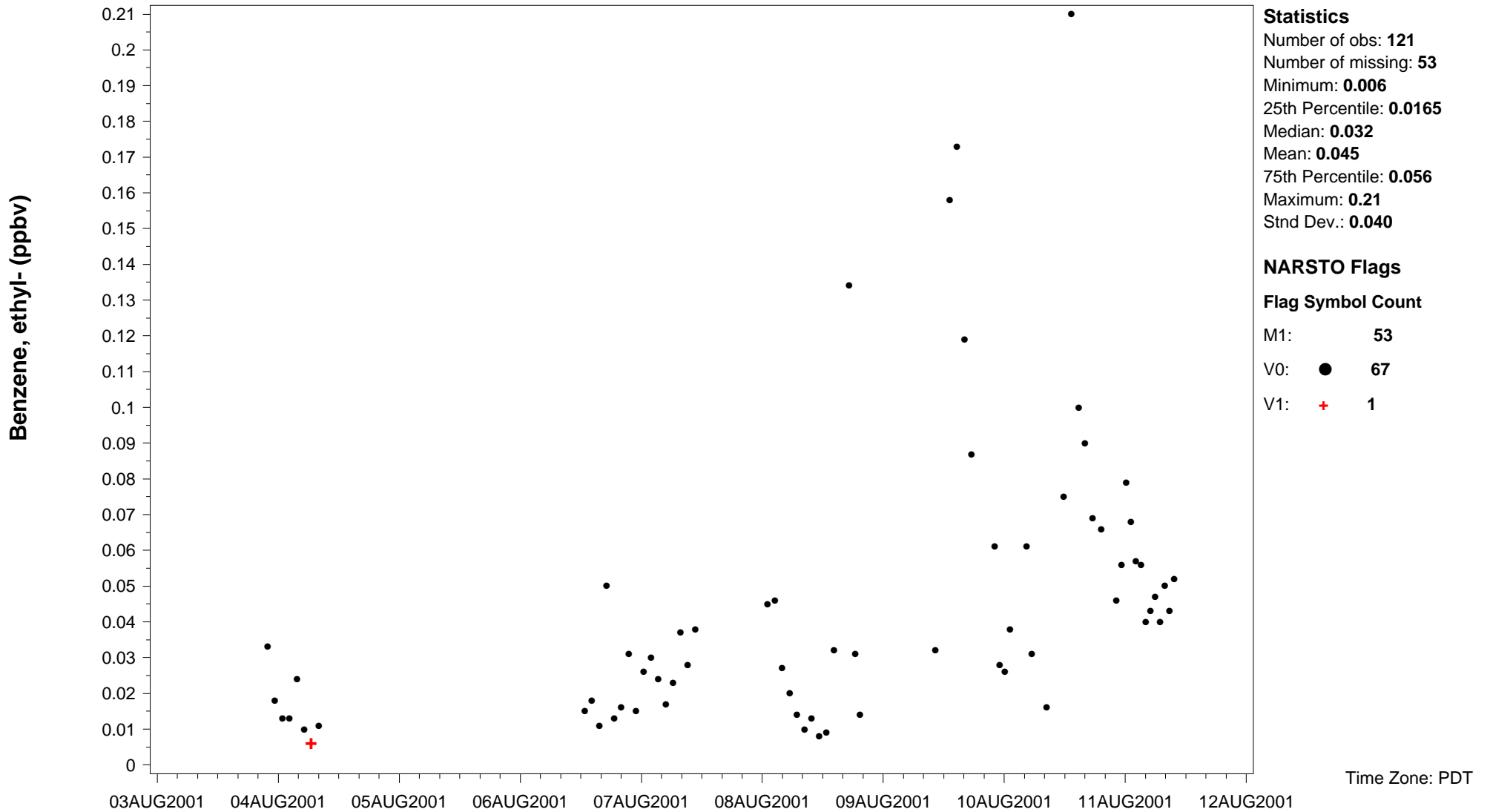
Site Name: **Golden Ears Provincial Park, British Columbia** Latitude: **49.27783 deg.** Longitude: **-122.51544 deg.** Start Date: **2001-08-03** End Date: **2001-08-11**



NAtChem Time Series Plot

21MAR2005

Site ID: **PC01CABCGEPP** Variable name: **Benzene, ethyl-** Common Name: **Ethylbenzene** Units: **ppbv** Sampling interval: **10 minute** CAS ID: **C100-41-4**
 Observation type: **Gas** Field sampling or measurement principle: **GC-FID** Inlet type: **Open sampling line** Laboratory analytical method: **GC**
 Blank Correction: **Blank corrected** Sampling Height above ground (m): **Undetermined** Instrument name and model number: **HP 5890**
 Site Name: **Golden Ears Provincial Park, British Columbia** Latitude: **49.27783 deg.** Longitude: **-122.51544 deg.** Start Date: **2001-08-03** End Date: **2001-08-11**



NAtChem Time Series Plot

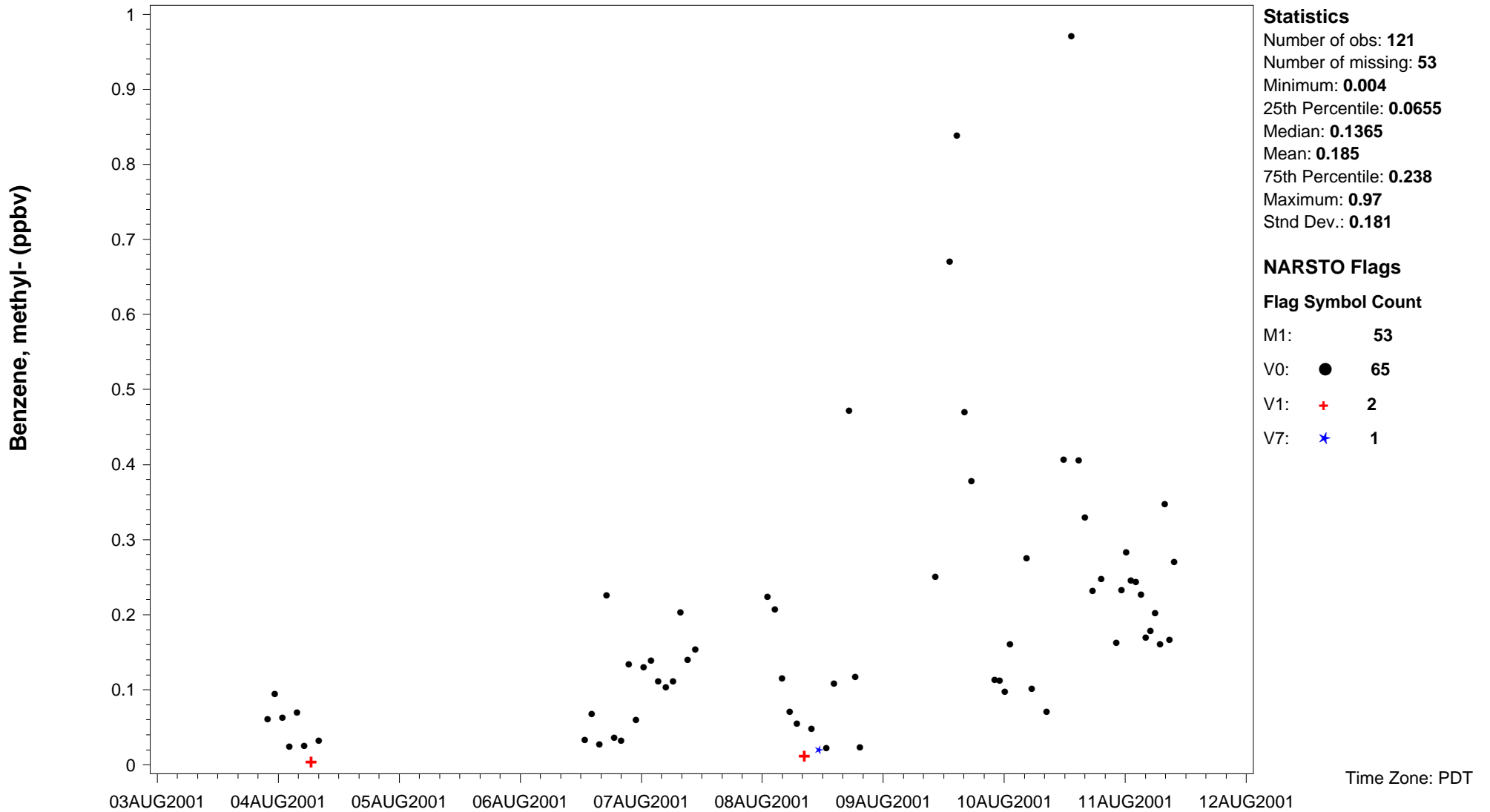
21MAR2005

Site ID: **PC01CABCGEPP** Variable name: **Benzene, methyl-** Common Name: **Toluene** Units: **ppbv** Sampling interval: **10 minute** CAS ID: **C108-88-3**

Observation type: **Gas** Field sampling or measurement principle: **GC-FID** Inlet type: **Open sampling line** Laboratory analytical method: **GC**

Blank Correction: **Blank corrected** Sampling Height above ground (m): **Undetermined** Instrument name and model number: **HP 5890**

Site Name: **Golden Ears Provincial Park, British Columbia** Latitude: **49.27783 deg.** Longitude: **-122.51544 deg.** Start Date: **2001-08-03** End Date: **2001-08-11**



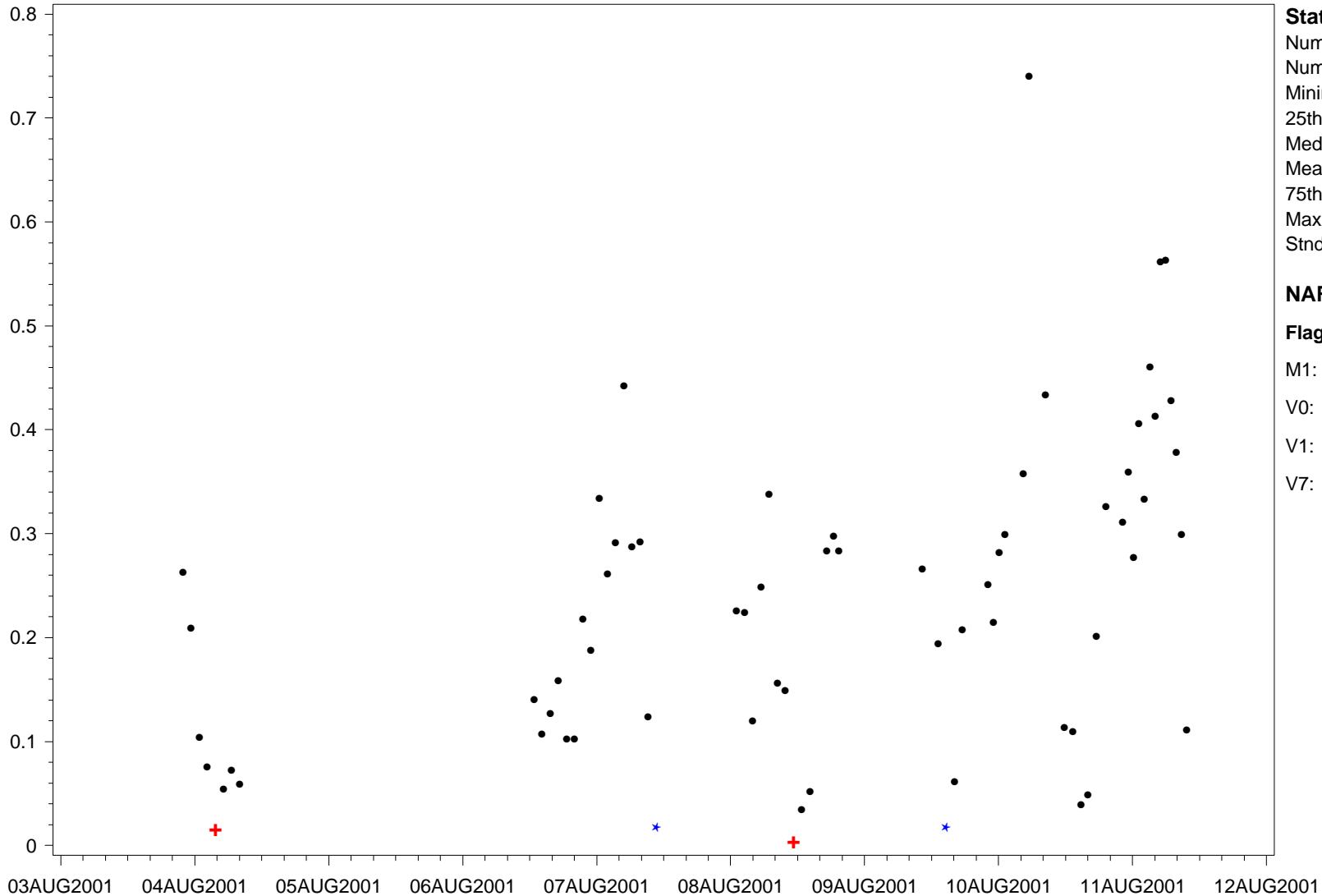
NAtChem Time Series Plot

21MAR2005

Site ID: **PC01CABCGEPP** Variable name: **Bicyclo[2.2.1]heptane, 2,2-dimethyl-3-methylene-** Units: **ppbv** Sampling interval: **10 minute** CAS ID: **C79-92-5**
 Observation type: **Gas** Field sampling or measurement principle: **GC-FID** Inlet type: **Open sampling line** Laboratory analytical method: **GC**
 Blank Correction: **Blank corrected** Sampling Height above ground (m): **Undetermined** Instrument name and model number: **HP 5890**

Site Name: **Golden Ears Provincial Park, British Columbia** Latitude: **49.27783 deg.** Longitude: **-122.51544 deg.** Start Date: **2001-08-03** End Date: **2001-08-11**

Bicyclo[2.2.1]heptane, 2,2-dimethyl-3-methylene- (ppbv)



Statistics

Number of obs: 121
 Number of missing: 53
 Minimum: 0.003
 25th Percentile: 0.108
 Median: 0.221
 Mean: 0.228
 75th Percentile: 0.305
 Maximum: 0.74
 Std Dev.: 0.150

NARSTO Flags

Flag Symbol Count

M1: 53
 V0: ● 64
 V1: + 2
 V7: ★ 2

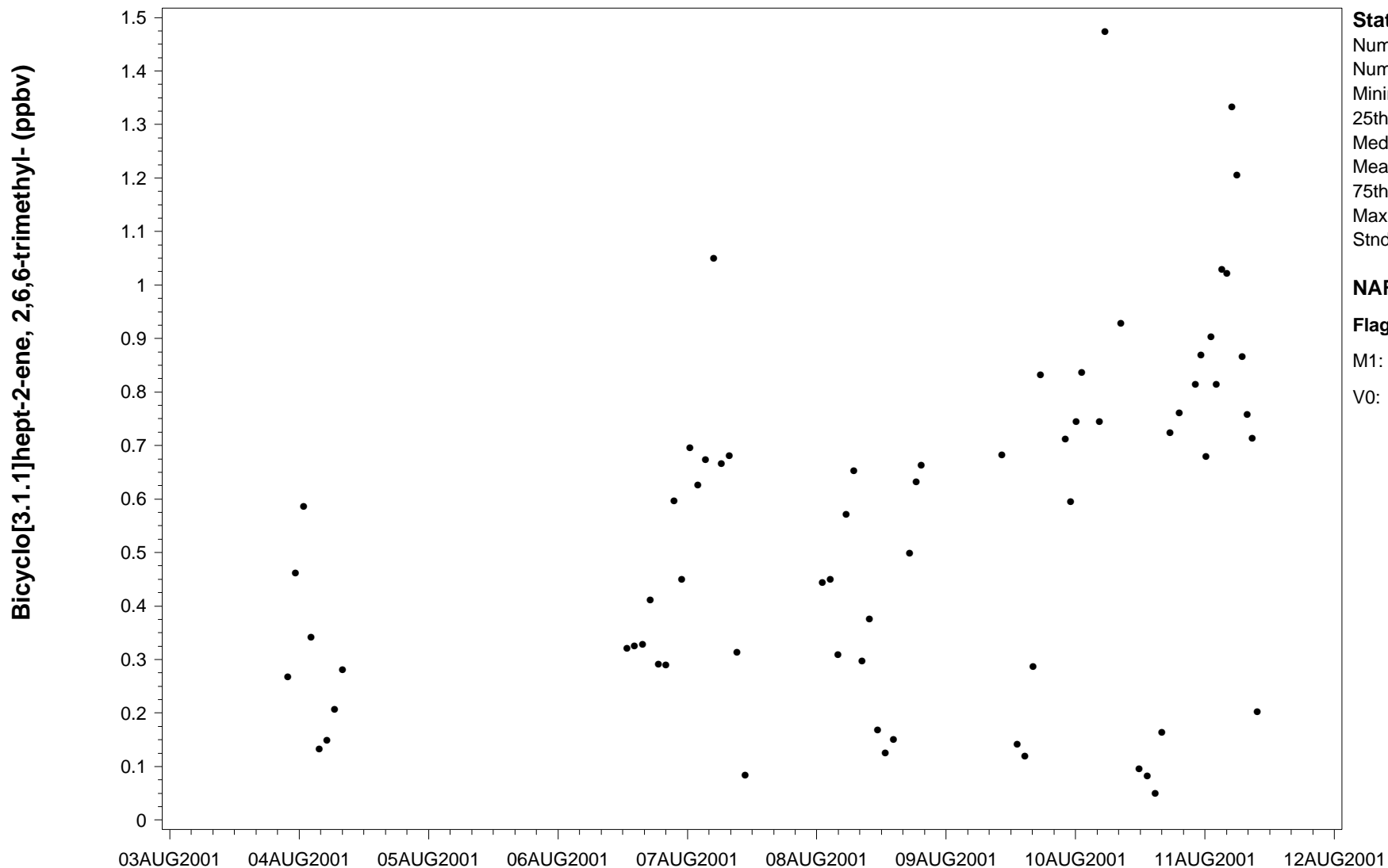
Time Zone: PDT

NAtChem Time Series Plot

21MAR2005

Site ID: **PC01CABCGEPP** Variable name: **Bicyclo[3.1.1]hept-2-ene, 2,6,6-trimethyl-** Common Name: **a-Pinene** Units: **ppbv** Sampling interval: **10 minute**
 CAS ID: **C80-56-8** Observation type: **Gas** Field sampling or measurement principle: **GC-FID** Inlet type: **Open sampling line**
 Laboratory analytical method: **GC** Blank Correction: **Blank corrected** Sampling Height above ground (m): **Undetermined**
 Instrument name and model number: **HP 5890**

Site Name: **Golden Ears Provincial Park, British Columbia** Latitude: **49.27783 deg.** Longitude: **-122.51544 deg.** Start Date: **2001-08-03** End Date: **2001-08-11**



Statistics

Number of obs: **121**
 Number of missing: **53**
 Minimum: **0.05**
 25th Percentile: **0.288**
 Median: **0.5795**
 Mean: **0.540**
 75th Percentile: **0.7445**
 Maximum: **1.474**
 Std Dev.: **0.324**

NARSTO Flags

Flag Symbol Count

M1: **53**
 V0: ● **68**

Time Zone: PDT

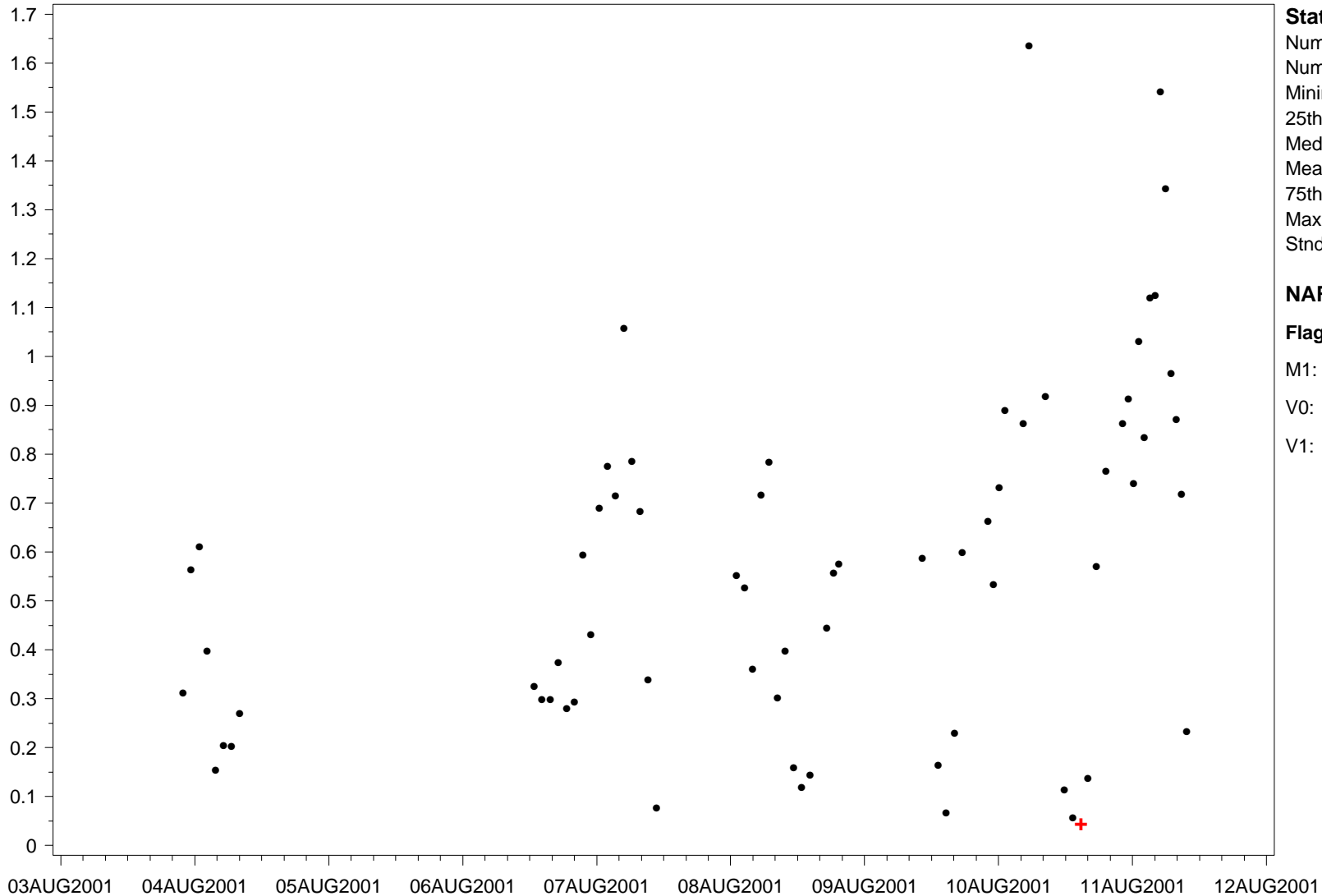
NAtChem Time Series Plot

21MAR2005

Site ID: **PC01CABCGEPP** Variable name: **Bicyclo[3.1.1]heptane, 6,6-dimethyl-2-methylene-** Common Name: **b-Pinene** Units: **ppbv** Sampling interval: **10 minute**
 CAS ID: **C127-91-3** Observation type: **Gas** Field sampling or measurement principle: **GC-FID** Inlet type: **Open sampling line**
 Laboratory analytical method: **GC** Blank Correction: **Blank corrected** Sampling Height above ground (m): **Undetermined**
 Instrument name and model number: **HP 5890**

Site Name: **Golden Ears Provincial Park, British Columbia** Latitude: **49.27783 deg.** Longitude: **-122.51544 deg.** Start Date: **2001-08-03** End Date: **2001-08-11**

Bicyclo[3.1.1]heptane, 6,6-dimethyl-2-methylene- (ppbv)



Statistics

Number of obs: **121**
 Number of missing: **53**
 Minimum: **0.043**
 25th Percentile: **0.286**
 Median: **0.5605**
 Mean: **0.562**
 75th Percentile: **0.78**
 Maximum: **1.635**
 Std Dev.: **0.357**

NARSTO Flags

Flag Symbol Count

M1: **53**
 V0: ● **67**
 V1: + **1**

Time Zone: PDT

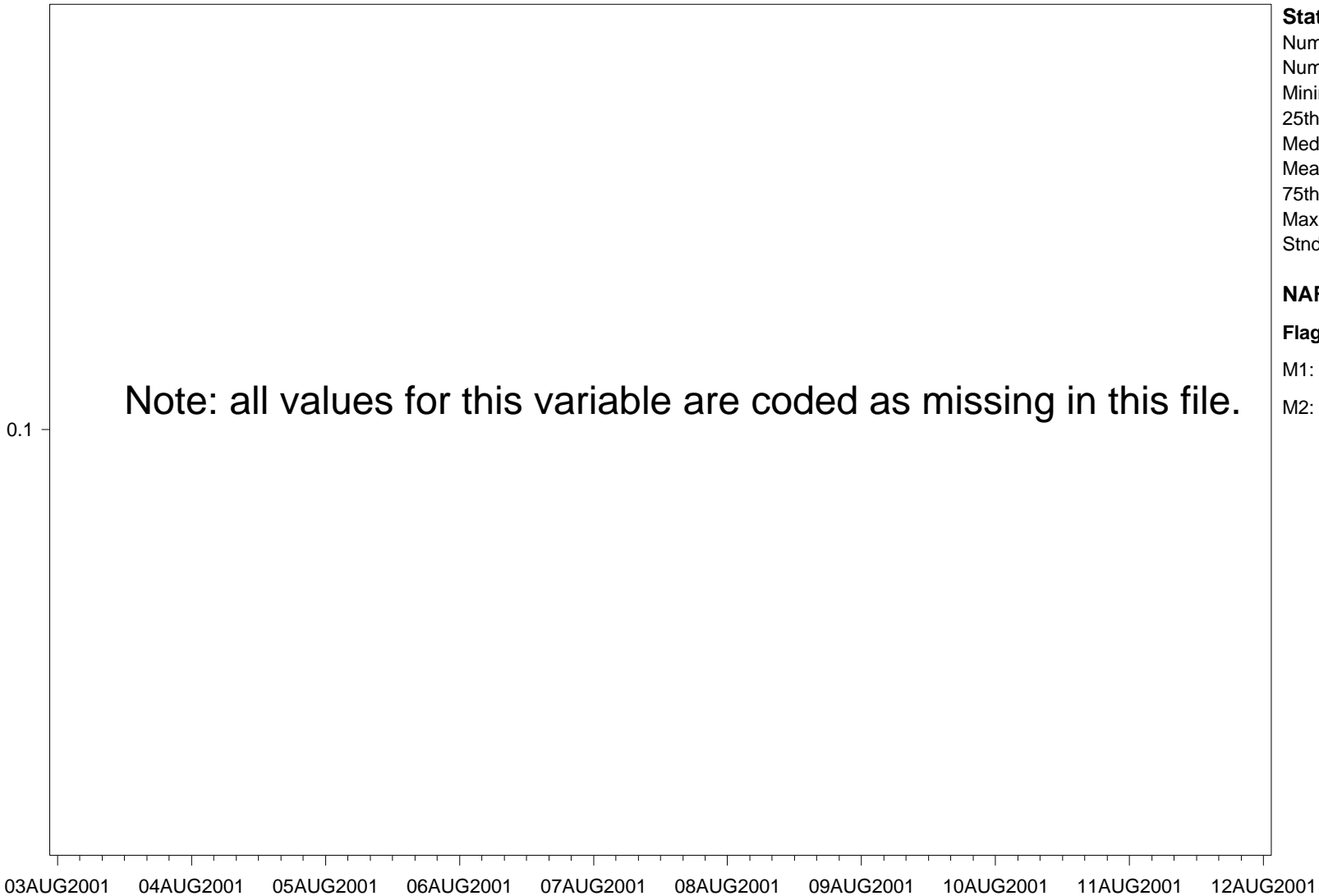
NAtChem Time Series Plot

21MAR2005

Site ID: **PC01CABCGEPP** Variable name: **Butanal** Common Name: **Butanal** Units: **ppbv** Sampling interval: **10 minute** CAS ID: **C123-72-8** Observation type: **Gas**
Field sampling or measurement principle: **GC-FID** Inlet type: **Open sampling line** Laboratory analytical method: **GC** Blank Correction: **Blank corrected**
Sampling Height above ground (m): **Undetermined** Instrument name and model number: **HP 5890**

Site Name: **Golden Ears Provincial Park, British Columbia** Latitude: **49.27783 deg.** Longitude: **-122.51544 deg.** Start Date: **2001-08-03** End Date: **2001-08-11**

Butanal (ppbv)



Statistics

Number of obs: **121**
Number of missing: **121**
Minimum: .
25th Percentile: .
Median: .
Mean: .
75th Percentile: .
Maximum: .
Std Dev.: .

NARSTO Flags

Flag Symbol Count
M1: **53**
M2: **68**

Time Zone: PDT

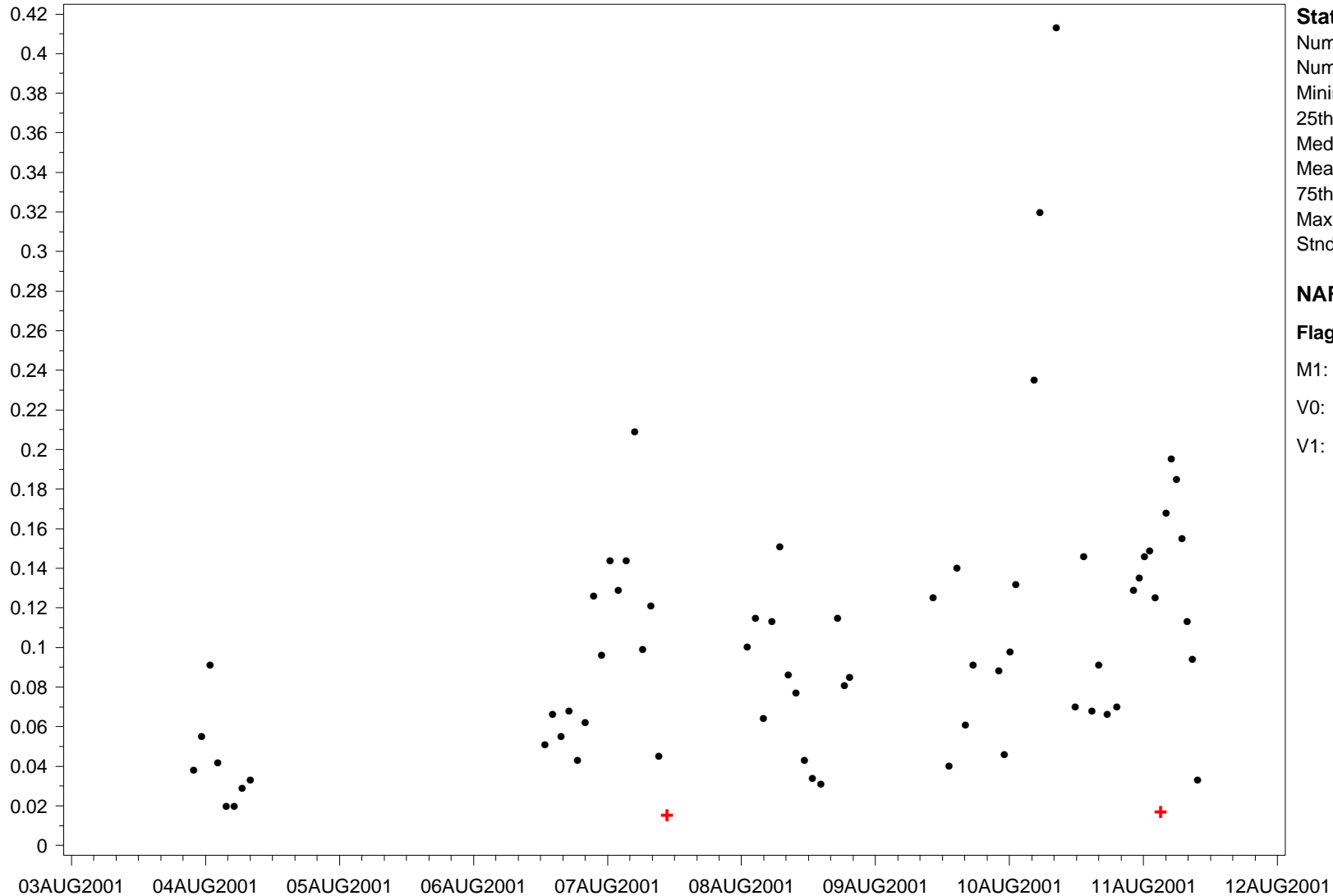
NAtChem Time Series Plot

21MAR2005

Site ID: **PC01CABCGEPP** Variable name: **Cyclohexene, 1-methyl-4-(1-methylethenyl)-, (4R)-** Units: **ppbv** Sampling interval: **10 minute** CAS ID: **C5989-27-5**
 Observation type: **Gas** Field sampling or measurement principle: **GC-FID** Inlet type: **Open sampling line** Laboratory analytical method: **GC**
 Blank Correction: **Blank corrected** Sampling Height above ground (m): **Undetermined** Instrument name and model number: **HP 5890**

Site Name: **Golden Ears Provincial Park, British Columbia** Latitude: **49.27783 deg.** Longitude: **-122.51544 deg.** Start Date: **2001-08-03** End Date: **2001-08-11**

Cyclohexene, 1-methyl-4-(1-methylethenyl)-, (4R)- (ppbv)



Statistics

Number of obs: **121**
 Number of missing: **53**
 Minimum: **0.015**
 25th Percentile: **0.053**
 Median: **0.091**
 Mean: **0.101**
 75th Percentile: **0.1305**
 Maximum: **0.413**
 Std Dev.: **0.068**

NARSTO Flags

Flag Symbol Count

M1: **53**
 V0: ● **66**
 V1: + **2**

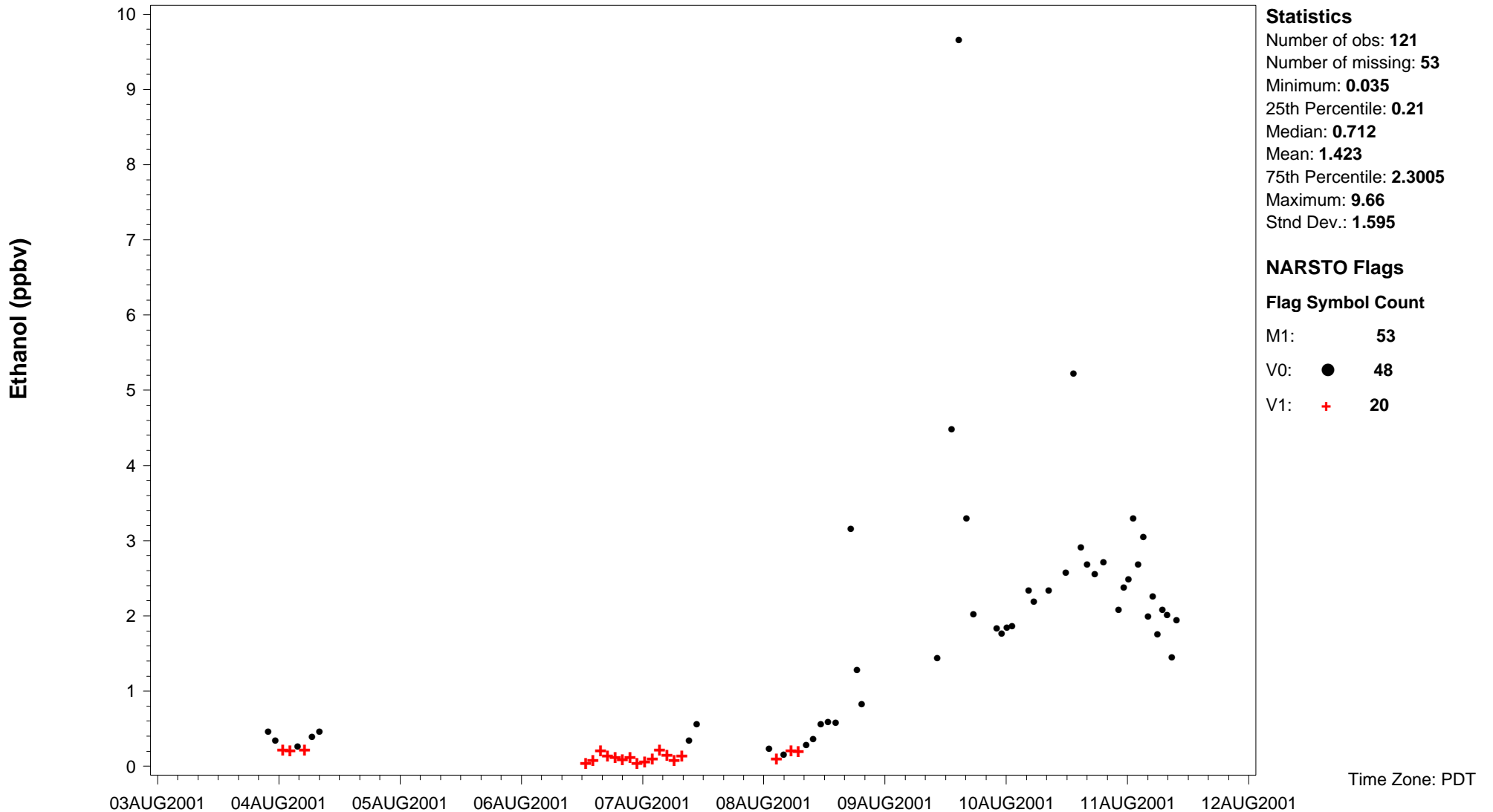
Time Zone: PDT

NAtChem Time Series Plot

21MAR2005

Site ID: **PC01CABCGEPP** Variable name: **Ethanol** Common Name: **Ethanol** Units: **ppbv** Sampling interval: **10 minute** CAS ID: **C64-17-5** Observation type: **Gas**
 Field sampling or measurement principle: **GC-FID** Inlet type: **Open sampling line** Laboratory analytical method: **GC** Blank Correction: **Blank corrected**
 Sampling Height above ground (m): **Undetermined** Instrument name and model number: **HP 5890**

Site Name: **Golden Ears Provincial Park, British Columbia** Latitude: **49.27783 deg.** Longitude: **-122.51544 deg.** Start Date: **2001-08-03** End Date: **2001-08-11**

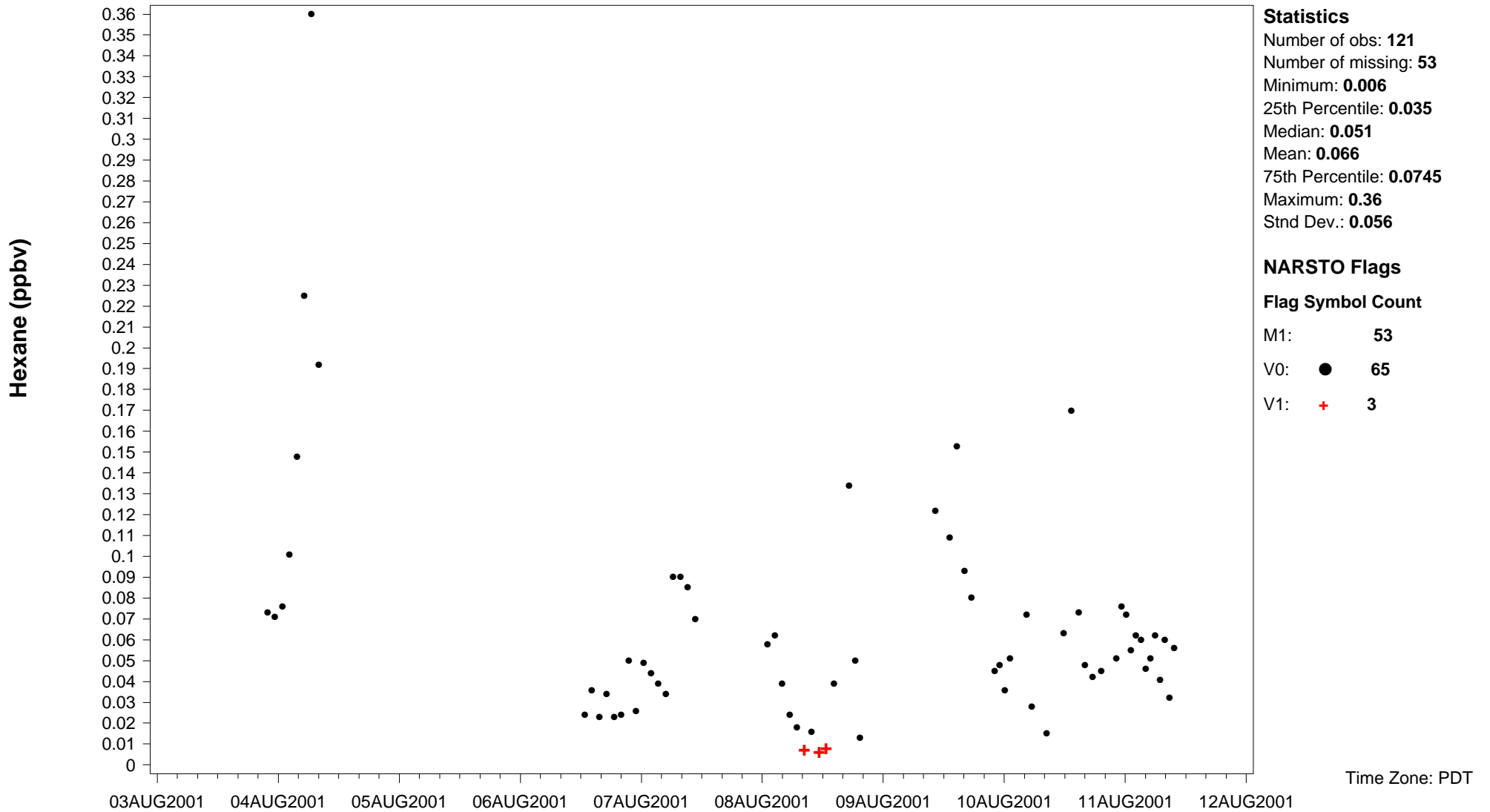


NAtChem Time Series Plot

21MAR2005

Site ID: **PC01CABCGEPP** Variable name: **Hexane** Common Name: **Hexane** Units: **ppbv** Sampling interval: **10 minute** CAS ID: **C110-54-3** Observation type: **Gas**
 Field sampling or measurement principle: **GC-FID** Inlet type: **Open sampling line** Laboratory analytical method: **GC** Blank Correction: **Blank corrected**
 Sampling Height above ground (m): **Undetermined** Instrument name and model number: **HP 5890**

Site Name: **Golden Ears Provincial Park, British Columbia** Latitude: **49.27783 deg.** Longitude: **-122.51544 deg.** Start Date: **2001-08-03** End Date: **2001-08-11**

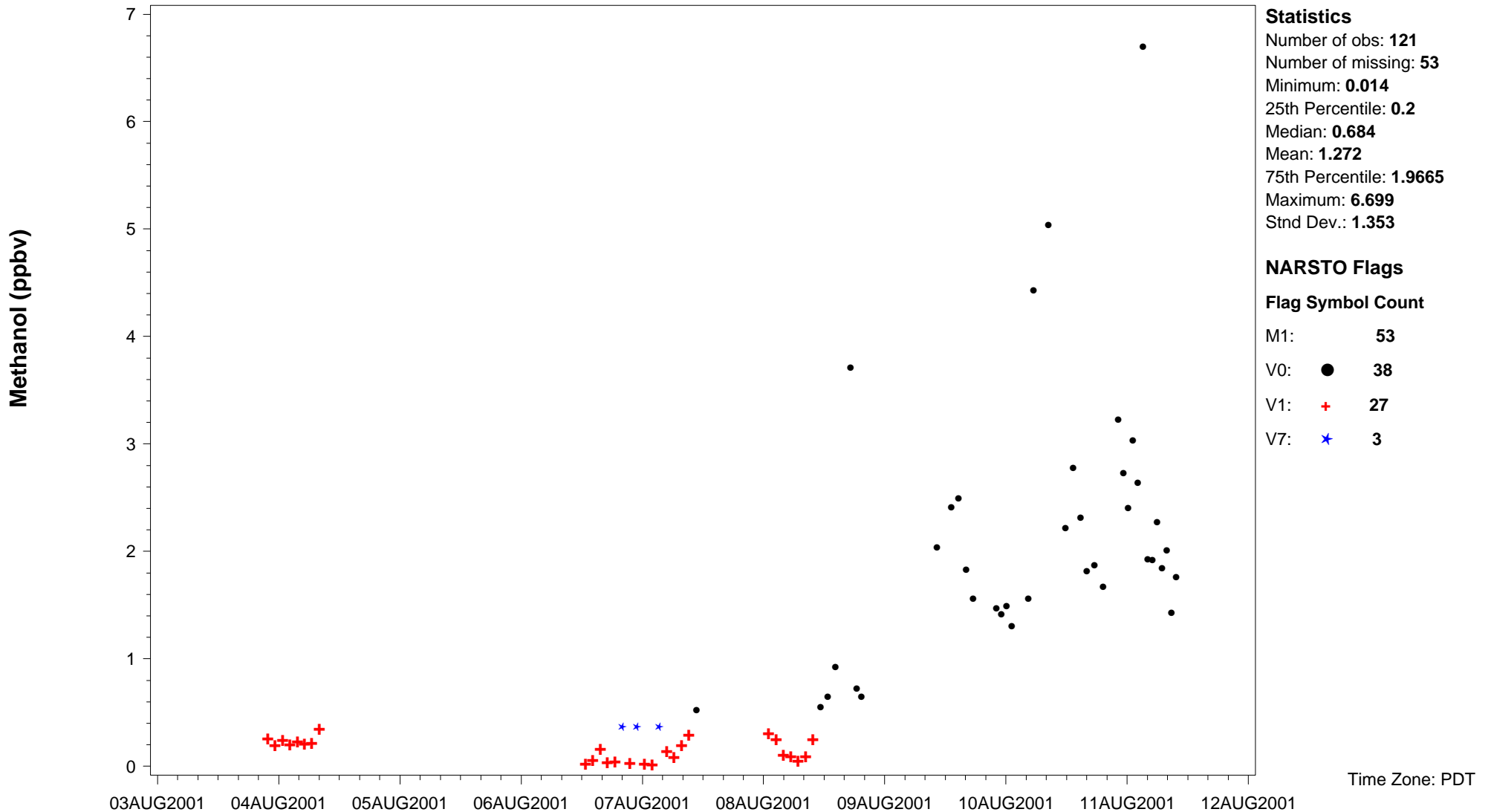


NAtChem Time Series Plot

21MAR2005

Site ID: **PC01CABCGEPP** Variable name: **Methanol** Common Name: **Methanol** Units: **ppbv** Sampling interval: **10 minute** CAS ID: **C67-56-1** Observation type: **Gas**
 Field sampling or measurement principle: **GC-FID** Inlet type: **Open sampling line** Laboratory analytical method: **GC** Blank Correction: **Blank corrected**
 Sampling Height above ground (m): **Undetermined** Instrument name and model number: **HP 5890**

Site Name: **Golden Ears Provincial Park, British Columbia** Latitude: **49.27783 deg.** Longitude: **-122.51544 deg.** Start Date: **2001-08-03** End Date: **2001-08-11**



NAtChem Time Series Plot

21MAR2005

Site ID: **PC01CABCGEPP** Variable name: **Propanal** Common Name: **Propanal** Units: **ppbv** Sampling interval: **10 minute** CAS ID: **C123-38-6** Observation type: **Gas**
 Field sampling or measurement principle: **GC-FID** Inlet type: **Open sampling line** Laboratory analytical method: **GC** Blank Correction: **Blank corrected**
 Sampling Height above ground (m): **Undetermined** Instrument name and model number: **HP 5890**

Site Name: **Golden Ears Provincial Park, British Columbia** Latitude: **49.27783 deg.** Longitude: **-122.51544 deg.** Start Date: **2001-08-03** End Date: **2001-08-11**

