

## File Names

09:53 Monday, March 21, 2005 1

File #	Original File Name
1	PAC2001_LPHS_FAF_MET_SONDE_20010823D5_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 2002/02/13 (2.214)	Froude ; Frank	Environment Canda - Centre for Atmospheric Research Experiments	Met Data ; Upper air, meteorological data obtained from radiosonde flights.	Variable interval	Variable frequency	1	ENVCAN	Environment Canda - Centre for Atmospheric Research Experiments	Environment Canda - Centre for Atmospheric Research Experiments RR#1, Egbert, Ontario	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	Table Explanation Of Reported Detection Limit Values	Table Explanation Of Reported Uncertainty
BC	Frank Froude, Centre for Atmospheric Research Experiments, RR#1, Egbert , Ontario, L0L 1N0, (705)-458-3302, frank.froude@ec.gc.ca	woods; Jim	Jim Woods, Envirotech Services (Ontario)	Jim Woods, Envirotech Services (Ontario)	2002/03/26	MS Excel 97	None ; None	2004/10/27 ; 1	n/a	n/a	n/a

Table User Note	Table User Note2	Table User Note3	Table User Note4	Table Name	Table Focus
Potential Temperature: Derived using Excel [Potential Temperature = (temperature+273.15)*power((1000/pressure),0.286)]	No surface data. Data starts at first data point after release. The first data record on each release have a sampling intervals of approx. 1 minute. A small number of records have a sampling interval of 2 seconds instead of the nominal 1 second interval.			Radiosonde Aloft--balloon Data	

## 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
PC01CABCLPHS	Langley/Poppy High Scholl	BC	49.095556	-122.566944	.	82.0			2001/08/23	2001/08/28			.

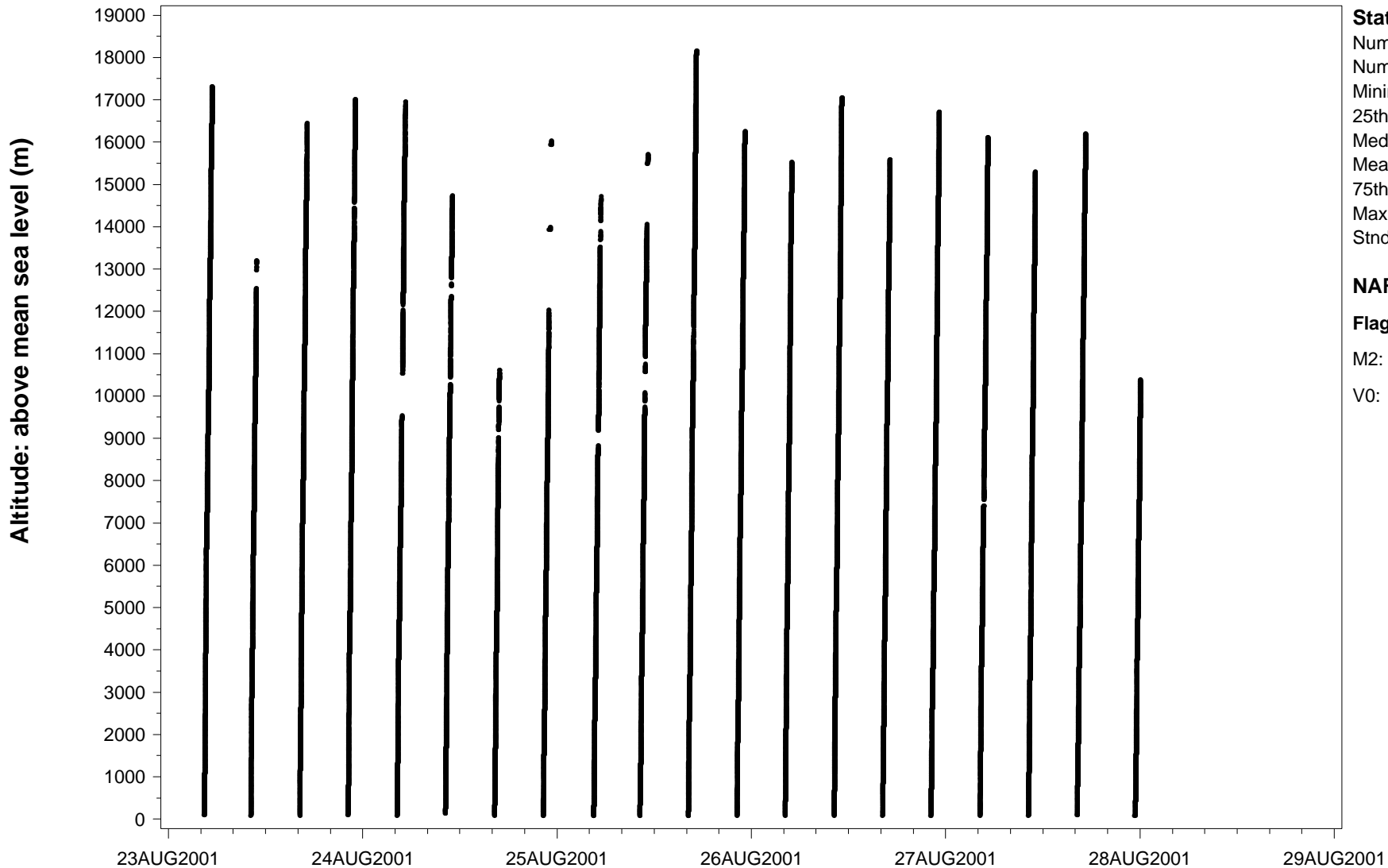
## NARSTO Standard Flags

Flag: NARSTO	Description
H1	Historical data that have not been assessed or validated
M1	Missing value because no value is available
M2	Missing value because invalidated by data originator
V0	Valid value
V1	Valid value but comprised wholly or partially of below detection limit data
V2	Valid estimated value
V3	Valid interpolated value
V4	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)
V6	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

NAtChem Time Series Plot

21MAR2005

Site ID: **PC01CABCLPHS** Variable name: **Altitude: above mean sea level** Units: **m** Sampling interval: **Variable interval**  
 Sampling frequency: **Variable frequency** Observation type: **Meteorology**  
 Field sampling or measurement principle: **Derived variable--see \*TABLE COLUMN EXPLANATION OF DERIVED VARIABLE**  
 Instrument name and model number: **VIZ W9000** Measurement principal investigator: **Frank Froude**  
 Site Name: **Langley/Poppy High Scholl, British Columbia** Flight ID: **LP82312** Start Date: **2001-08-23** End Date: **2001-08-28**



**Statistics**  
 Number of obs: **60,343**  
 Number of missing: **17**  
 Minimum: **78.27**  
 25th Percentile: **4019.58**  
 Median: **7521.28**  
 Mean: **7768.931**  
 75th Percentile: **11378.45**  
 Maximum: **18160.32**  
 Stnd Dev.: **4484.389**

**NARSTO Flags**  
**Flag Symbol Count**  
 M2: **17**  
 V0: ● **60,326**

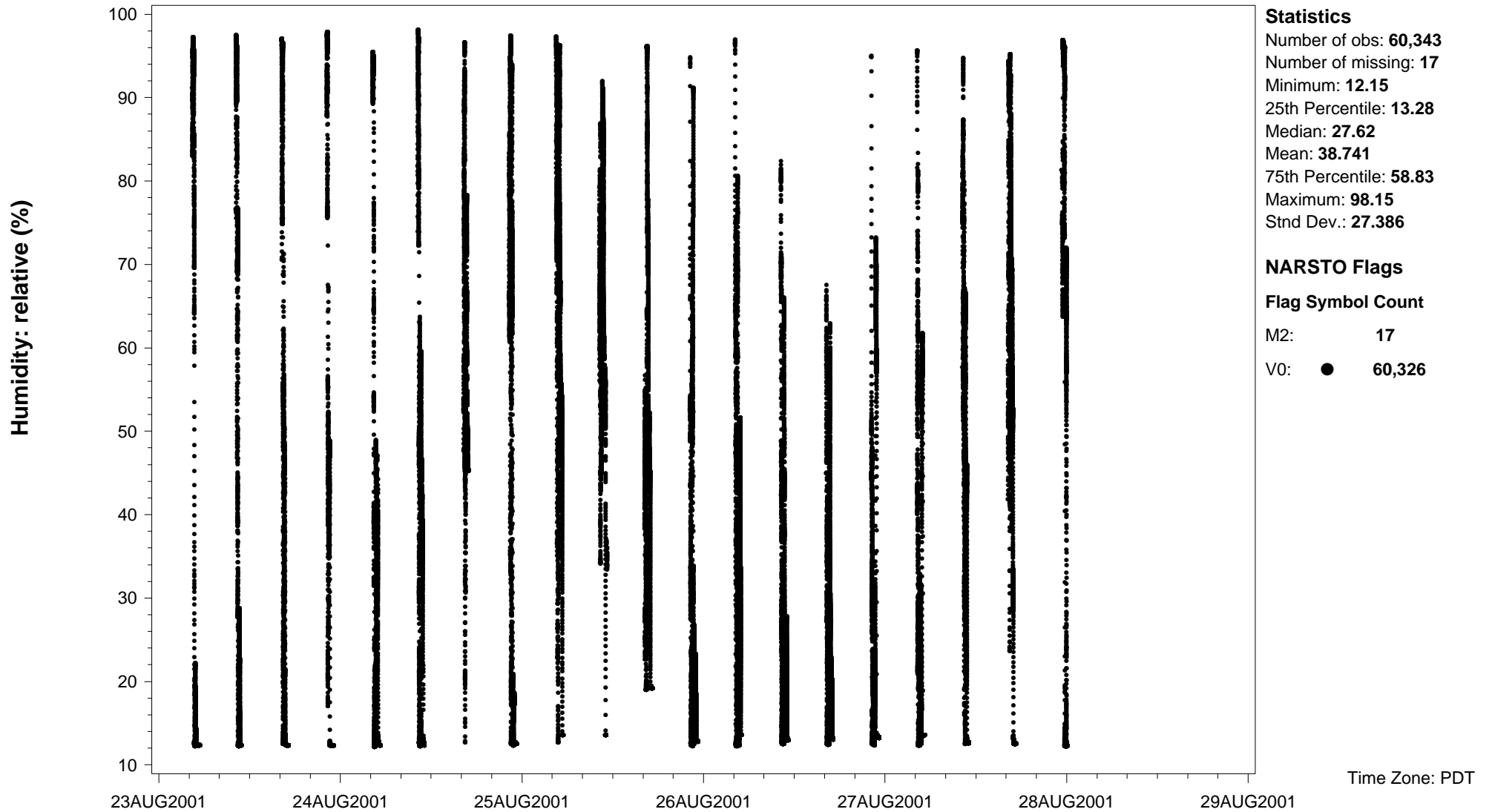
Time Zone: PDT

NAtChem Time Series Plot

21MAR2005

Site ID: **PC01CABCLPHS** Variable name: **Humidity: relative** Units: % Sampling interval: **Variable interval** Sampling frequency: **Variable frequency**  
 Observation type: **Meteorology** Field sampling or measurement principle: **Hygrometer** Instrument name and model number: **VIZ W9000**  
 Measurement principal investigator: **Frank Froude**

Site Name: **Langley/Poppy High Scholl, British Columbia** Flight ID: **LP82312** Start Date: **2001-08-23** End Date: **2001-08-28**

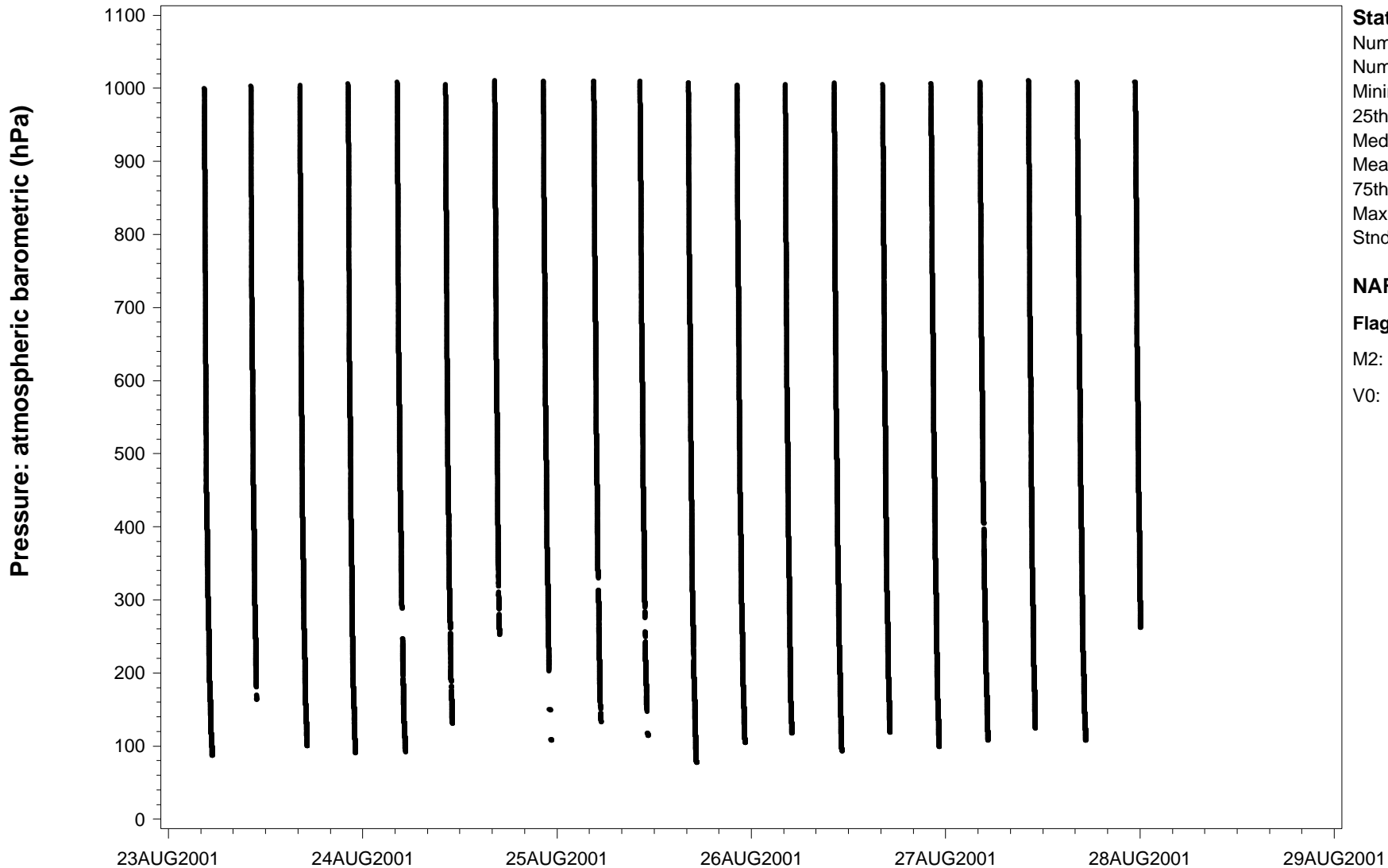


# NAtChem Time Series Plot

21MAR2005

Site ID: **PC01CABCLPHS** Variable name: **Pressure: atmospheric barometric** Units: **hPa** Sampling interval: **Variable interval**  
Sampling frequency: **Variable frequency** Observation type: **Meteorology** Field sampling or measurement principle: **Barometer--aneroid**  
Instrument name and model number: **VIZ W9000** Measurement principal investigator: **Frank Froude**

Site Name: **Langley/Poppy High Scholl, British Columbia** Flight ID: **LP82312** Start Date: **2001-08-23** End Date: **2001-08-28**



## Statistics

Number of obs: **60,343**  
Number of missing: **17**  
Minimum: **77.67**  
25th Percentile: **223.91**  
Median: **393.135**  
Mean: **440.021**  
75th Percentile: **624.09**  
Maximum: **1011.1**  
Std Dev.: **247.943**

## NARSTO Flags

Flag Symbol Count  
M2: **17**  
V0: ● **60,326**

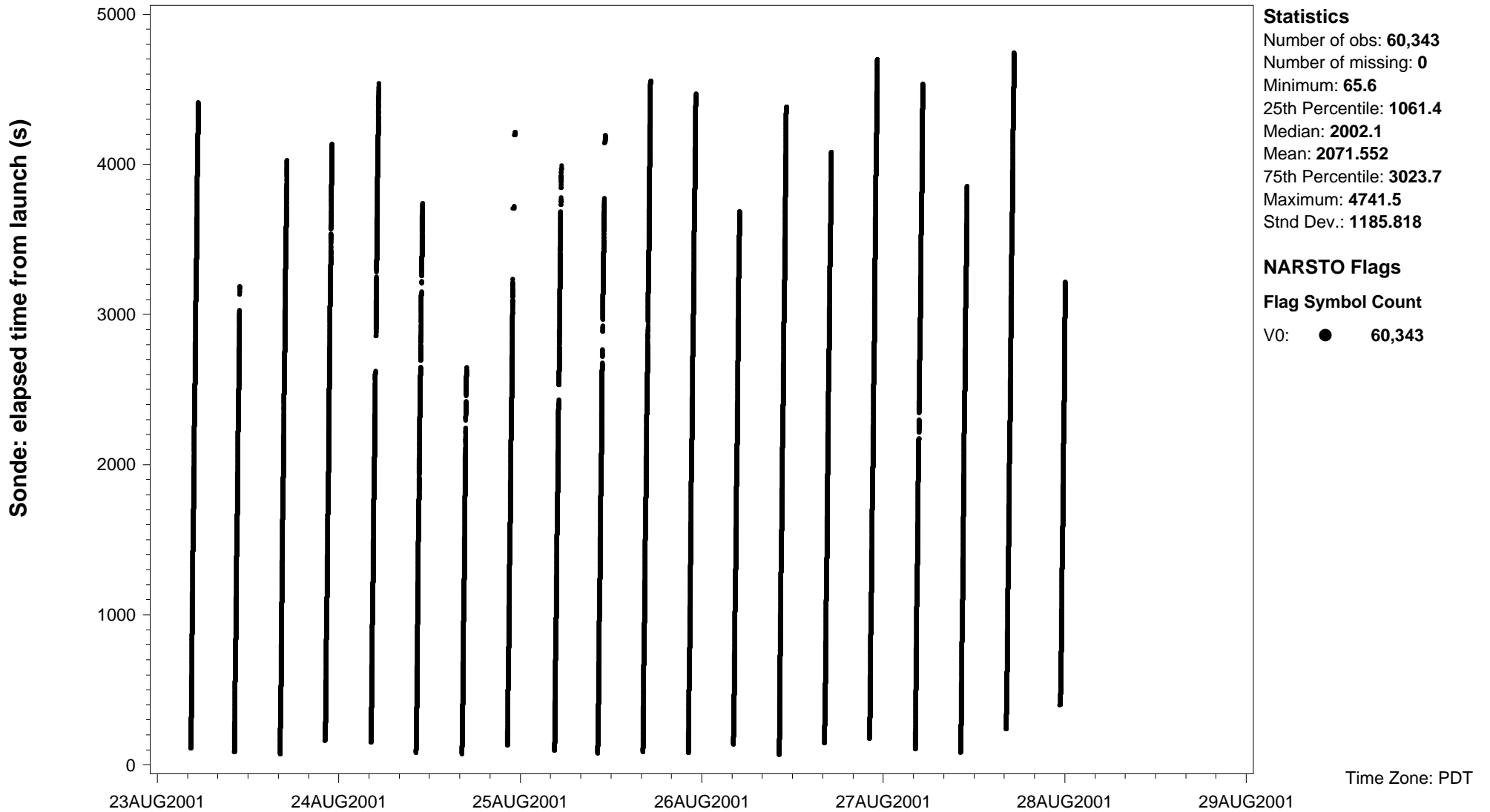
Time Zone: PDT

# NAtChem Time Series Plot

21MAR2005

Site ID: **PC01CABCLPHS** Variable name: **Sonde: elapsed time from launch** Units: **s** Sampling interval: **Variable interval**  
Sampling frequency: **Variable frequency** Observation type: **Meteorology** Instrument name and model number: **VIZ W9000**  
Measurement principal investigator: **Frank Froude**

Site Name: **Langley/Poppy High Scholl, British Columbia** Flight ID: **LP82312** Start Date: **2001-08-23** End Date: **2001-08-28**





# NAtChem Time Series Plot

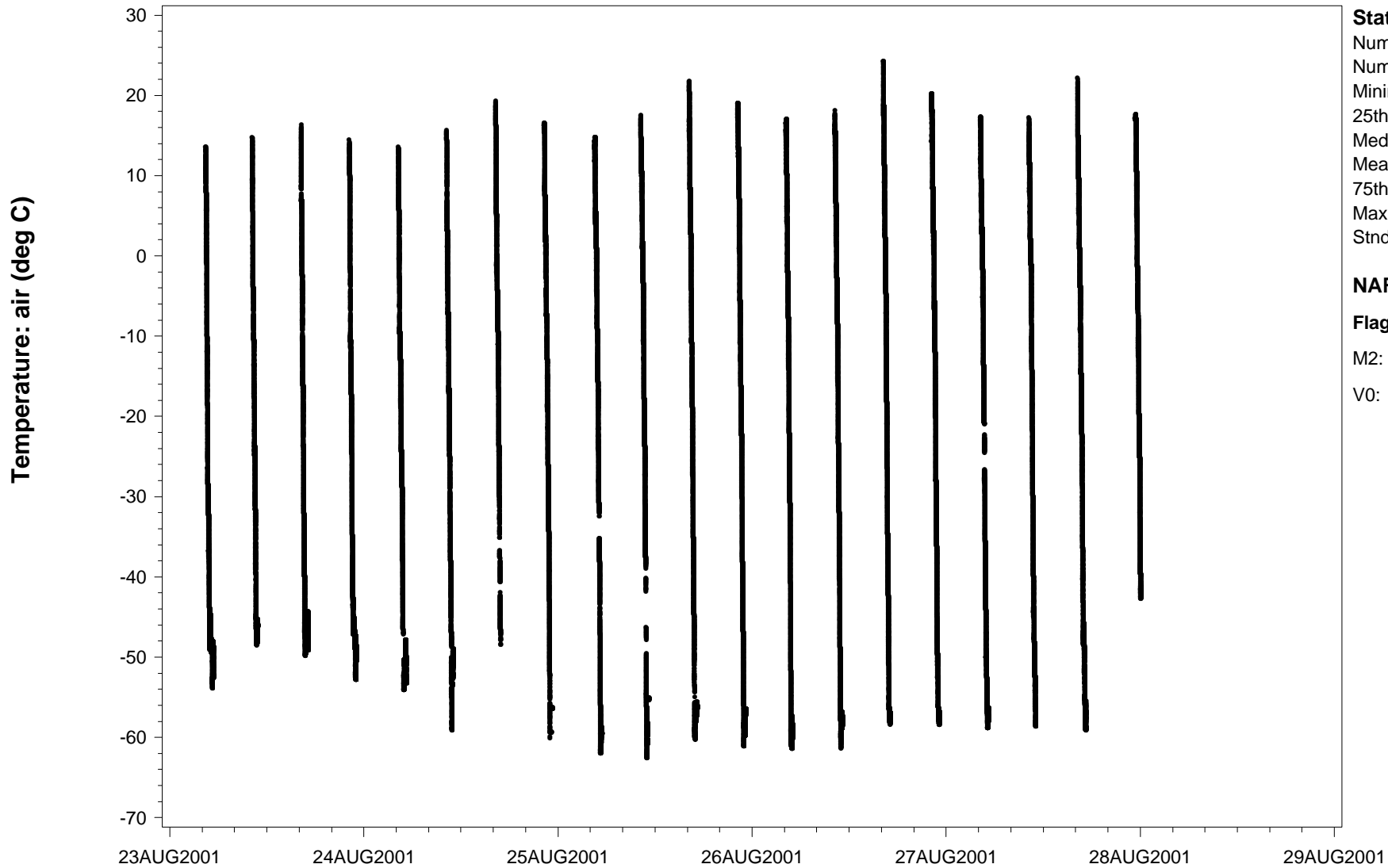
21MAR2005

Site ID: **PC01CABCLPHS** Variable name: **Temperature: air** Units: **deg C** Sampling interval: **Variable interval** Sampling frequency: **Variable frequency**

Observation type: **Meteorology** Field sampling or measurement principle: **Thermistor-based temperature sensor**

Instrument name and model number: **VIZ W9000** Measurement principal investigator: **Frank Froude**

Site Name: **Langley/Poppy High Scholl, British Columbia** Flight ID: **LP82312** Start Date: **2001-08-23** End Date: **2001-08-28**



## Statistics

Number of obs: **60,343**  
Number of missing: **17**  
Minimum: **-62.58**  
25th Percentile: **-47.7**  
Median: **-25.66**  
Mean: **-25.038**  
75th Percentile: **-3.19**  
Maximum: **24.33**  
Std Dev.: **24.202**

## NARSTO Flags

Flag Symbol Count  
M2: **17**  
V0: ● **60,326**

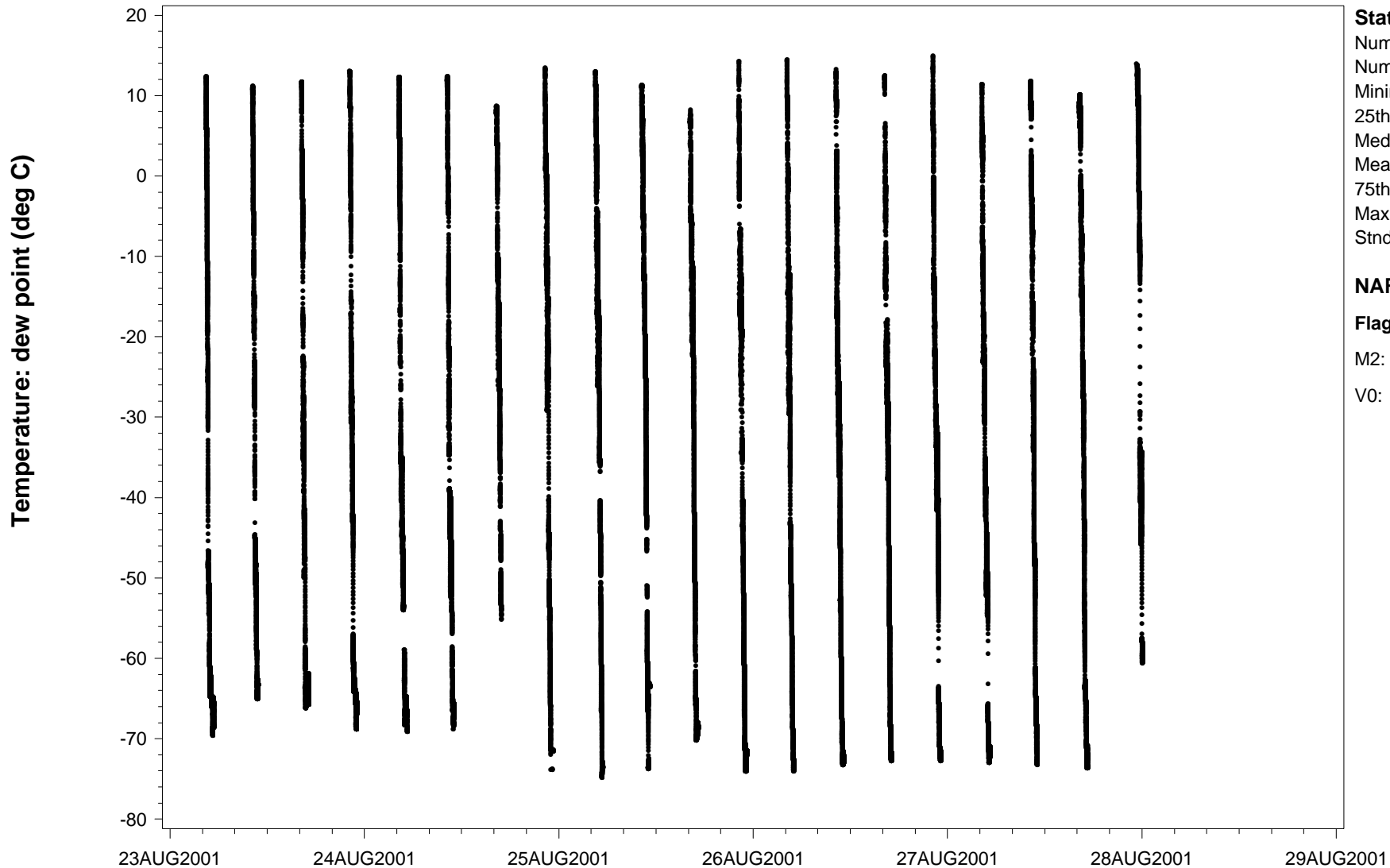
Time Zone: PDT

NAtChem Time Series Plot

21MAR2005

Site ID: **PC01CABCLPHS** Variable name: **Temperature: dew point** Units: **deg C** Sampling interval: **Variable interval** Sampling frequency: **Variable frequency**  
 Observation type: **Meteorology** Field sampling or measurement principle: **Derived variable--see \*TABLE COLUMN EXPLANATION OF DERIVED VARIABLE**  
 Instrument name and model number: **VIZ W9000** Measurement principal investigator: **Frank Froude**

Site Name: **Langley/Poppy High Scholl, British Columbia** Flight ID: **LP82312** Start Date: **2001-08-23** End Date: **2001-08-28**



**Statistics**

Number of obs: **60,343**  
 Number of missing: **17**  
 Minimum: **-74.81**  
 25th Percentile: **-63.44**  
 Median: **-38.1**  
 Mean: **-36.706**  
 75th Percentile: **-15.15**  
 Maximum: **14.94**  
 Std Dev.: **26.326**

**NARSTO Flags**

**Flag Symbol Count**  
 M2: **17**  
 V0: ● **60,326**

Time Zone: PDT

NAtChem Time Series Plot

21MAR2005

Site ID: **PC01CABCLPHS** Variable name: **Temperature: potential** Units: **K** Sampling interval: **Variable interval** Sampling frequency: **Variable frequency**  
 Observation type: **Meteorology** Field sampling or measurement principle: **Derived variable--see \*TABLE COLUMN EXPLANATION OF DERIVED VARIABLE**  
 Instrument name and model number: **VIZ W9000** Measurement principal investigator: **Frank Froude**

Site Name: **Langley/Poppy High Scholl, British Columbia** Flight ID: **LP82312** Start Date: **2001-08-23** End Date: **2001-08-28**

