

## File Names

09:53 Monday, March 21, 2005 1

File #	Original File Name
1	PAC2001_LNEL_KGA_MET_TOWER_20010813D19_V2.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 2001/09/27 (2.213)	Anlauf ; Dr. Kurt	Air Quality Research Branch, Meteorological Service of Canada	MET_TOWER ; Meteorology	1 minute	Every minute	1	ENVCAN	Environment Canada	Meteorological Service of Canada, Environment 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	Table Explanation Of Reported Detection Limit Values	Table Explanation Of Reported Uncertainty	Table User Note
BC	Dr. Kurt Anlauf, 4905 Dufferin St., Toronto ON, CANADA, M3H 5T4 Kurt.Anlauf@ec.gc.ca	Hayden ; Katherine	Air Quality Research Branch, Meteorological Service of Canada	Katherine Hayden, Meteorological Service of Canada	2001/09/20	Excel/2000	None ; 0	2004/10/27 ; 2	Within error of instrument	Not available		

Table User Note2	Table User Note3	Table User Note4	Table Name	Table Focus
			Meteorological Data	Aloft--tower

## 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
PC01CABCLNEL	Langley	BC	49.028900	-122.602500	.	80.0	Agricultural	Rural	2001/08/10	2001/09/01		LNE	-100

## NARSTO Standard Flags

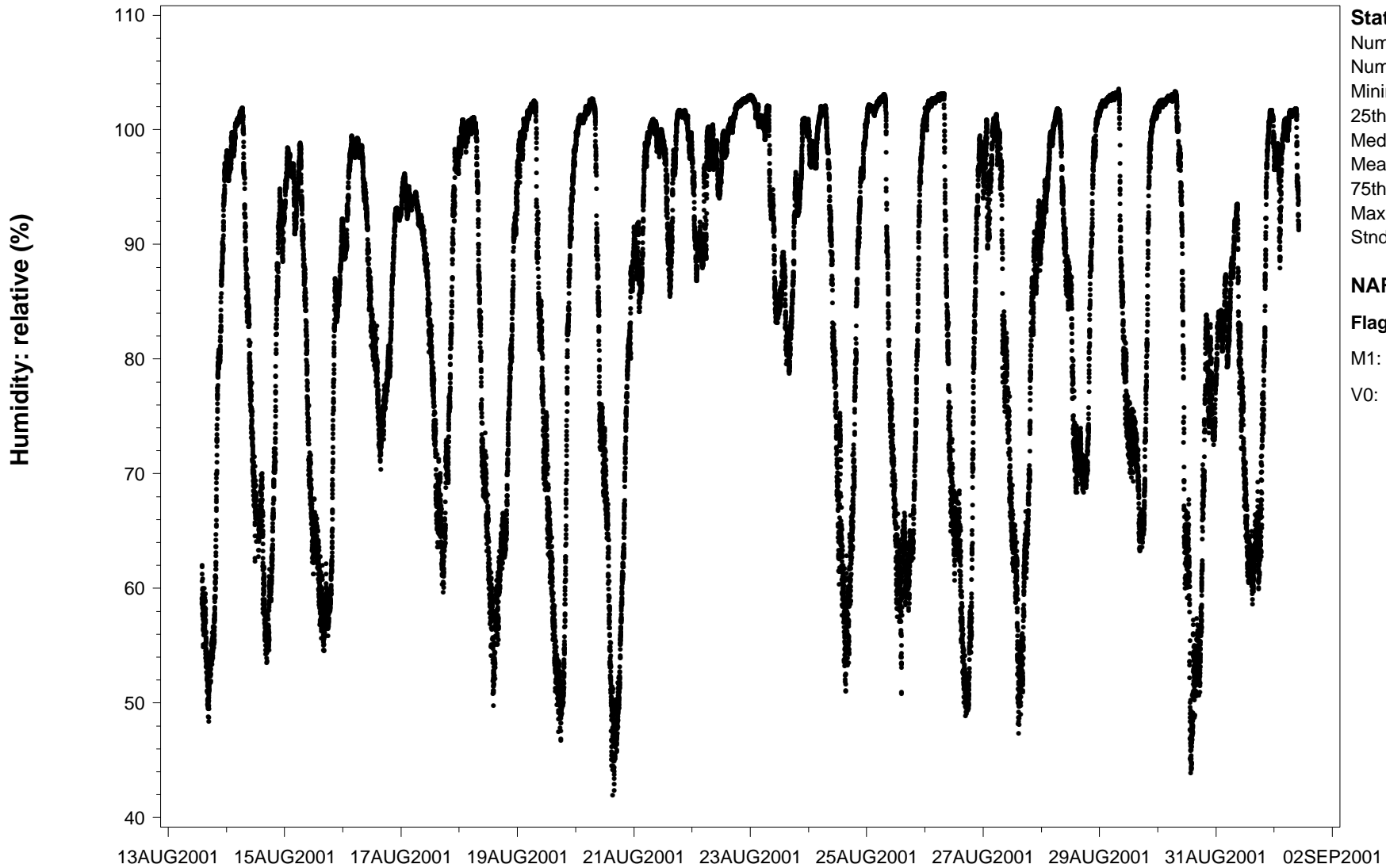
Flag: NARSTO	Description
H1	Historical data that have not been assessed or validated
M1	Missing value because no value is available
M2	Missing value because invalidated by data originator
V0	Valid value
V1	Valid value but comprised wholly or partially of below detection limit data
V2	Valid estimated 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: **PC01CABLNEL** Variable name: **Humidity: relative** Units: % Sampling interval: **1 minute** Sampling frequency: **Every minute**  
 Observation type: **Meteorology** Field sampling or measurement principle: **Thermistor-based temperature sensor**  
 Instrument name and model number: **HMP35CF** Measurement principal investigator: **Kurt Anlauf**

Site Name: **Langley, British Columbia** Latitude: **49.0289 deg.** Longitude: **-122.6025 deg.** Start Date: **2001-08-10** End Date: **2001-09-01**



**Statistics**  
 Number of obs: 27,132  
 Number of missing: 55  
 Minimum: 41.99  
 25th Percentile: 71.24  
 Median: 90.01  
 Mean: 84.840  
 75th Percentile: 99.32  
 Maximum: 103.53  
 Std Dev.: 16.081

**NARSTO Flags**  
**Flag Symbol Count**  
 M1: 55  
 V0: ● 27,077

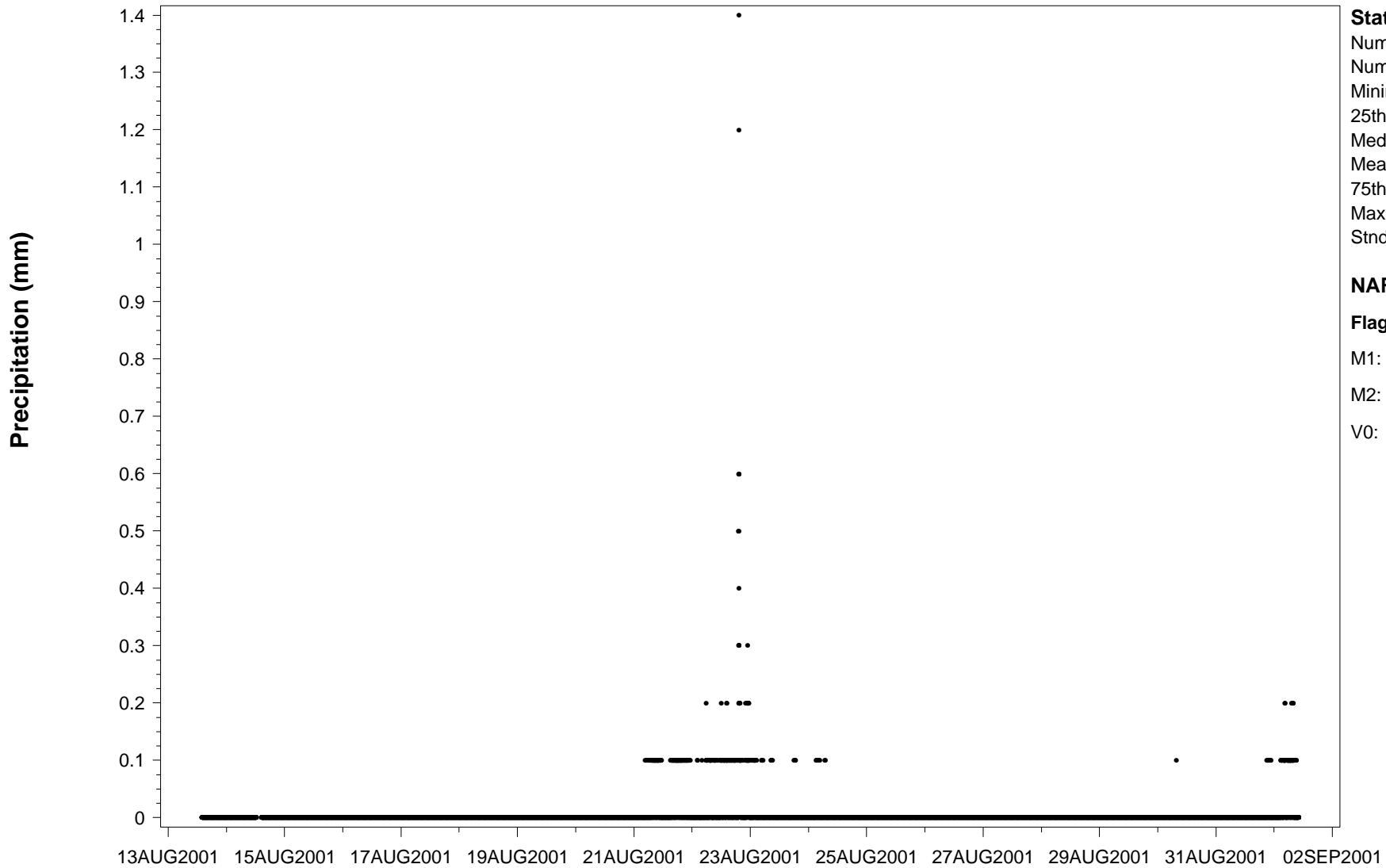
Time Zone: PDT

NAtChem Time Series Plot

21MAR2005

Site ID: **PC01CABLNEL** Variable name: **Precipitation** Units: **mm** Sampling interval: **1 minute** Sampling frequency: **Every minute**  
 Observation type: **Meteorology** Field sampling or measurement principle: **Tipping bucket rain gauge** Instrument name and model number: **TR-525M-R1**  
 Measurement principal investigator: **Kurt Anlauf**

Site Name: **Langley, British Columbia** Latitude: **49.0289 deg.** Longitude: **-122.6025 deg.** Start Date: **2001-08-10** End Date: **2001-09-01**



**Statistics**  
 Number of obs: **27,132**  
 Number of missing: **129**  
 Minimum: **0**  
 25th Percentile: **0**  
 Median: **0**  
 Mean: **0.003**  
 75th Percentile: **0**  
 Maximum: **1.4**  
 Stnd Dev.: **0.022**

**NARSTO Flags**  
**Flag Symbol Count**  
 M1: **72**  
 M2: **57**  
 V0: ● **27,003**

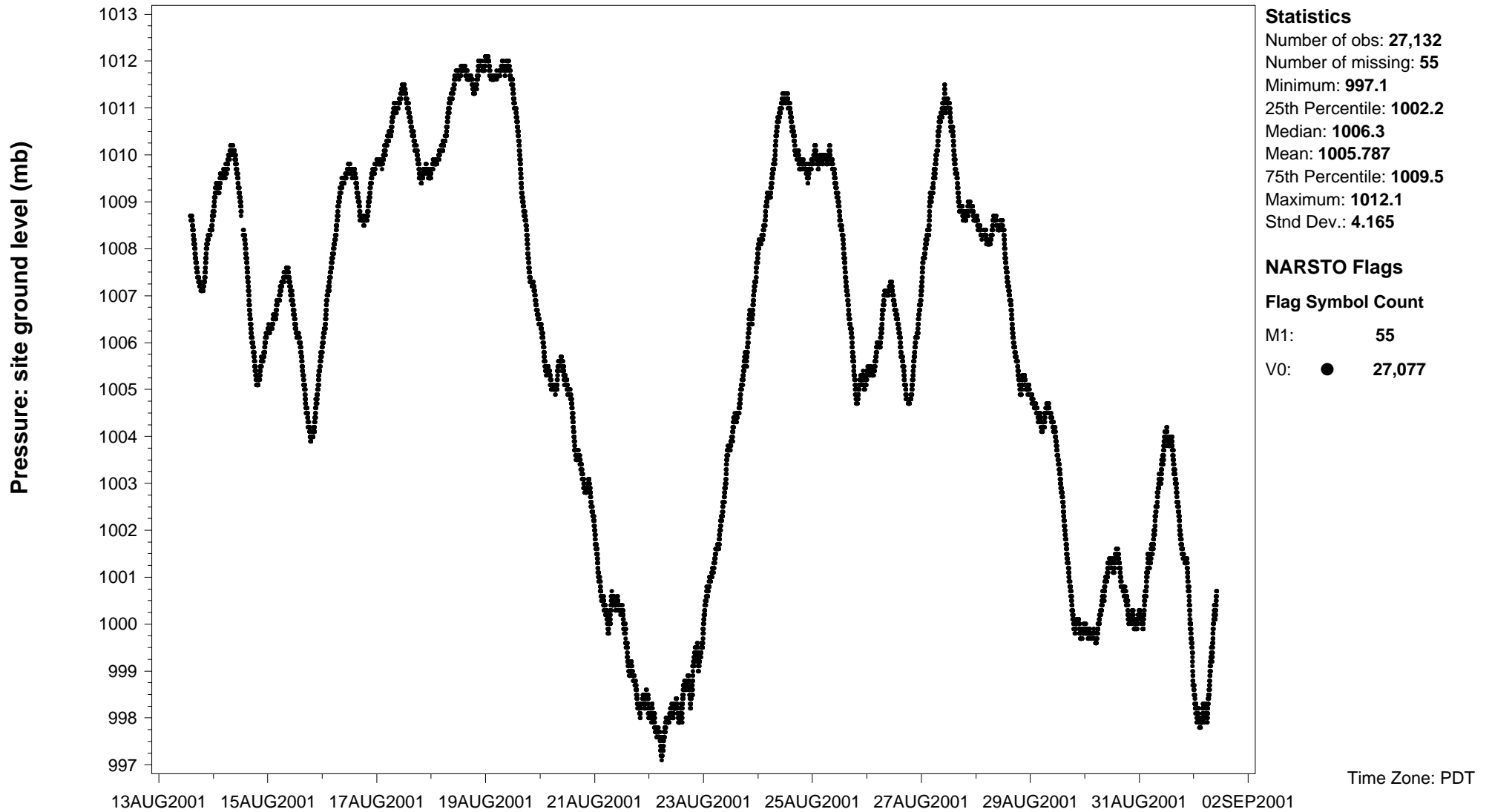
Time Zone: PDT

NAtChem Time Series Plot

21MAR2005

Site ID: **PC01CABLNEL** Variable name: **Pressure: site ground level** Units: **mb** Sampling interval: **1 minute** Sampling frequency: **Every minute**  
 Observation type: **Meteorology** Field sampling or measurement principle: **Pressure transducer** Instrument name and model number: **SETRA 270**  
 Measurement principal investigator: **Kurt Anlauf**

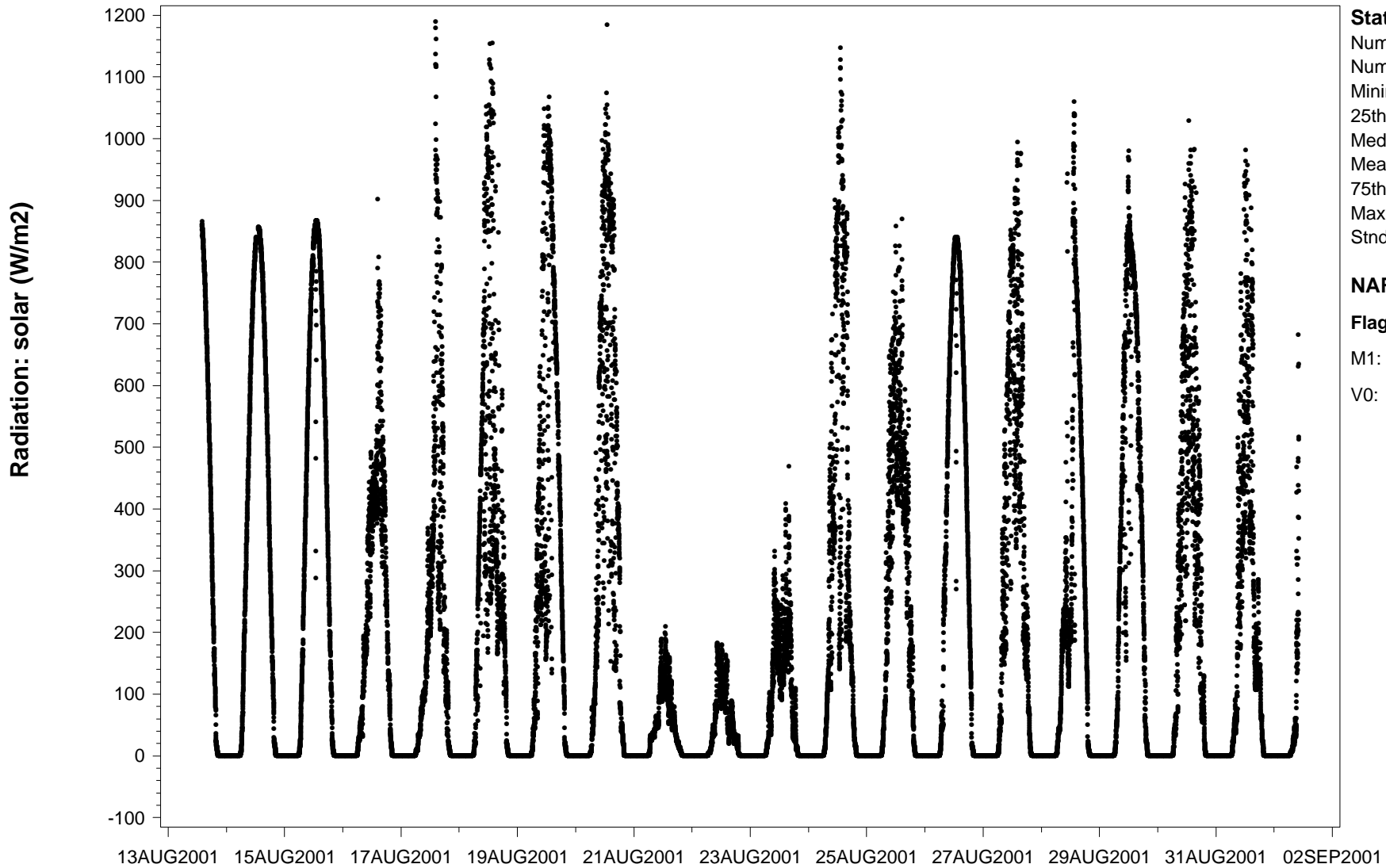
Site Name: **Langley, British Columbia** Latitude: **49.0289 deg.** Longitude: **-122.6025 deg.** Start Date: **2001-08-10** End Date: **2001-09-01**



### NAtChem Time Series Plot

21MAR2005

Site ID: **PC01CABLNEL** Variable name: **Radiation: solar** Units: **W/m2** Sampling interval: **1 minute** Sampling frequency: **Every minute**  
 Observation type: **Meteorology** Field sampling or measurement principle: **Pyranometer** Wavelength--lower bound (NM): **280**  
 Wavelength--upper bound (NM): **2800** Instrument name and model number: **LI200S** Measurement principal investigator: **Kurt Anlauf**  
 Site Name: **Langley, British Columbia** Latitude: **49.0289 deg.** Longitude: **-122.6025 deg.** Start Date: **2001-08-10** End Date: **2001-09-01**



**Statistics**  
 Number of obs: **27,132**  
 Number of missing: **55**  
 Minimum: **-0.106**  
 25th Percentile: **0**  
 Median: **30.198**  
 Mean: **193.703**  
 75th Percentile: **330.89**  
 Maximum: **1189.872**  
 Std Dev.: **272.831**

**NARSTO Flags**  
**Flag Symbol Count**  
 M1: **55**  
 V0: ● **27,077**

Time Zone: PDT

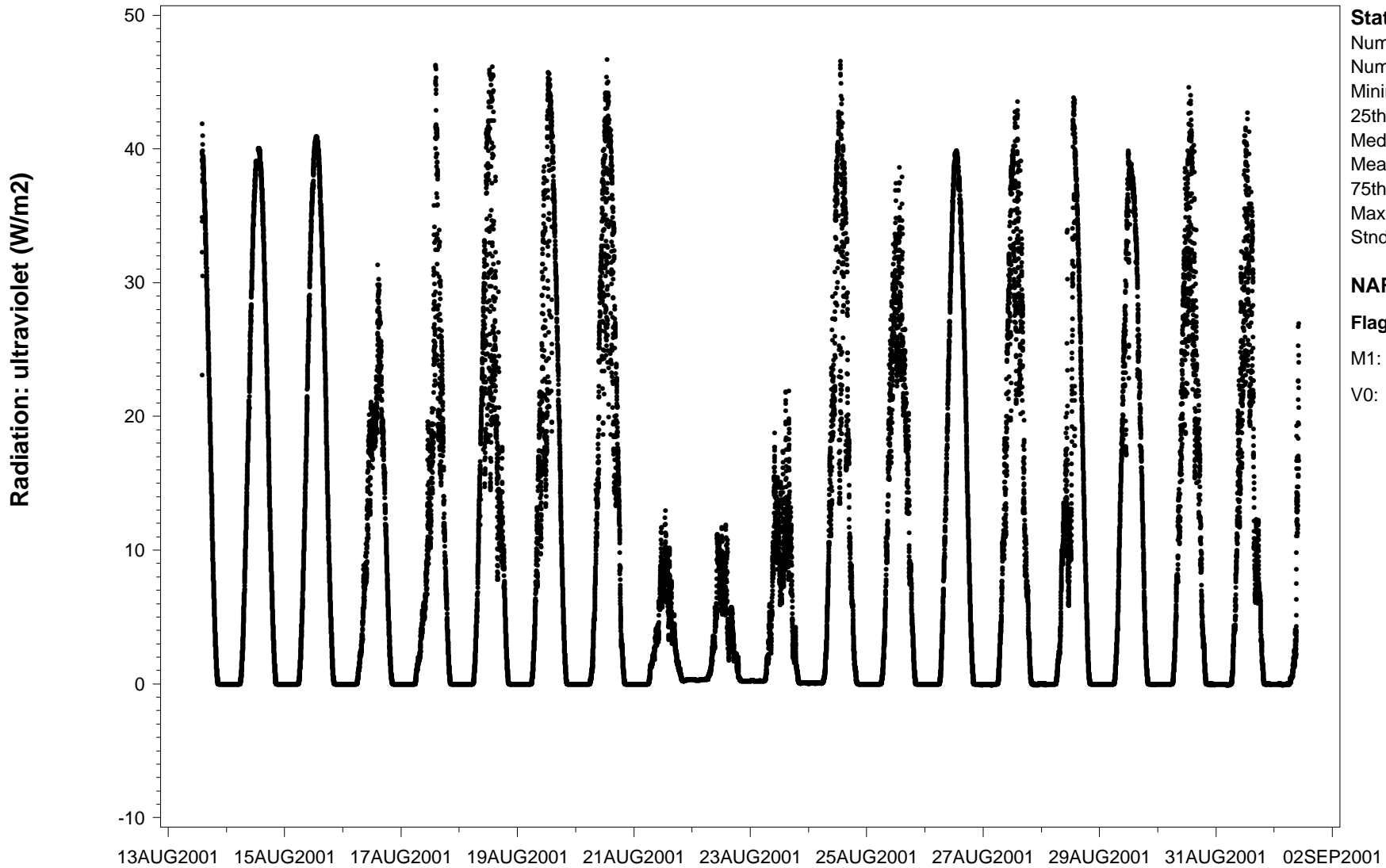


NAtChem Time Series Plot

21MAR2005

Site ID: **PC01CABLNEL** Variable name: **Radiation: ultraviolet** Units: **W/m2** Sampling interval: **1 minute** Sampling frequency: **Every minute**  
 Observation type: **Meteorology** Field sampling or measurement principle: **Pyranometer** Sampling Height above ground (m): **1.5**  
 Wavelength--lower bound (NM): **295** Wavelength--upper bound (NM): **385** Instrument name and model number: **Eppley Model TUVR**  
 Measurement principal investigator: **Kurt Anlauf**

Site Name: **Langley, British Columbia** Latitude: **49.0289 deg.** Longitude: **-122.6025 deg.** Start Date: **2001-08-10** End Date: **2001-09-01**



**Statistics**  
 Number of obs: **27,132**  
 Number of missing: **55**  
 Minimum: **-0.056**  
 25th Percentile: **-0.026**  
 Median: **1.87**  
 Mean: **9.200**  
 75th Percentile: **16.32**  
 Maximum: **46.667**  
 Std Dev.: **12.473**

**NARSTO Flags**  
**Flag Symbol Count**  
 M1: **55**  
 V0: ● **27,077**

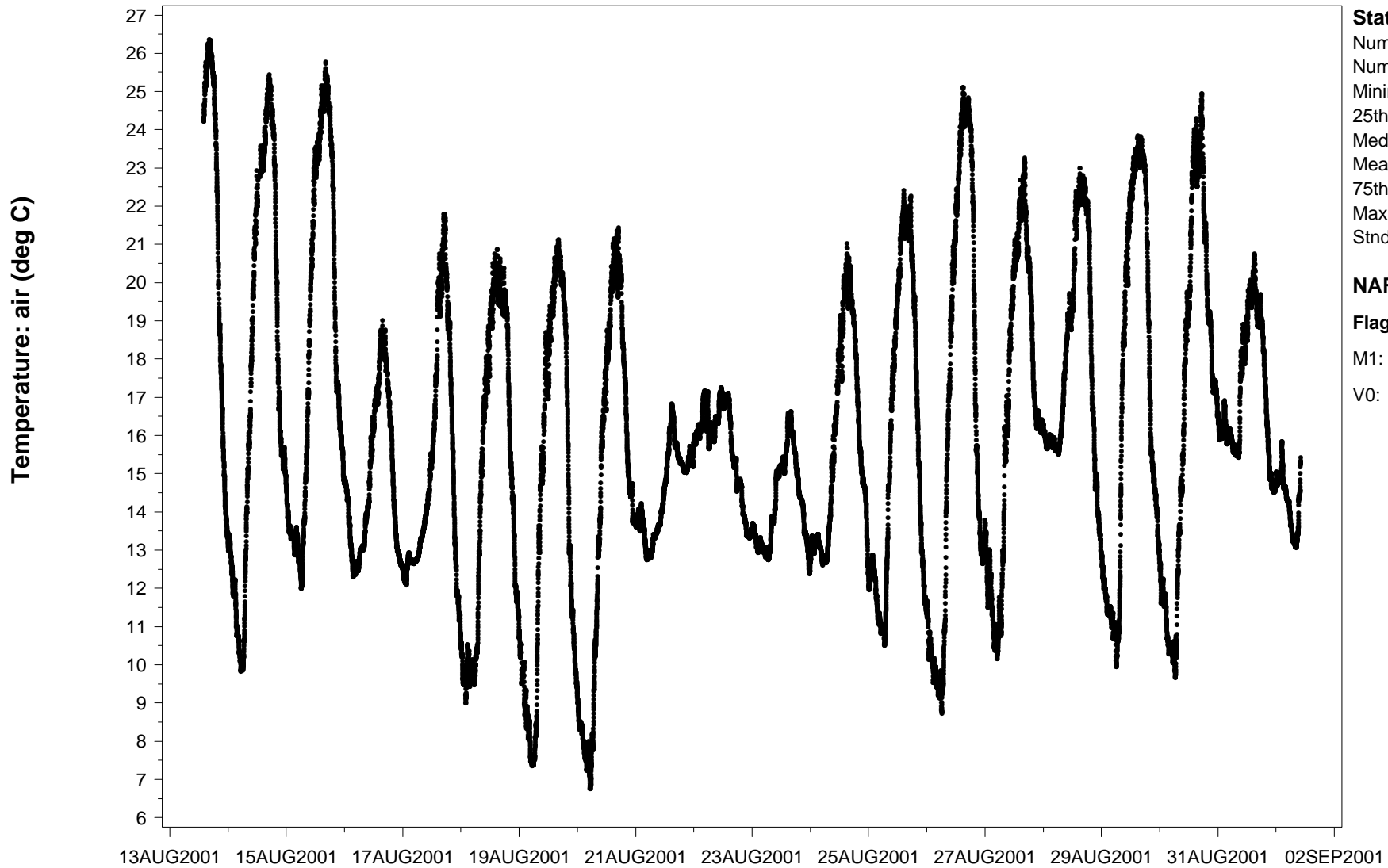
Time Zone: PDT

# NAtChem Time Series Plot

21MAR2005

Site ID: **PC01CABLNEL** Variable name: **Temperature: air** Units: **deg C** Sampling interval: **1 minute** Sampling frequency: **Every minute**  
Observation type: **Meteorology** Field sampling or measurement principle: **Thermistor-based temperature sensor**  
Instrument name and model number: **HMP35CF** Measurement principal investigator: **Kurt Anlauf**

Site Name: **Langley, British Columbia** Latitude: **49.0289 deg.** Longitude: **-122.6025 deg.** Start Date: **2001-08-10** End Date: **2001-09-01**



### Statistics

Number of obs: **27,132**  
Number of missing: **55**  
Minimum: **6.76**  
25th Percentile: **13.09**  
Median: **15.6**  
Mean: **16.038**  
75th Percentile: **19**  
Maximum: **26.35**  
Std Dev.: **4.056**

### NARSTO Flags

Flag Symbol Count  
M1: **55**  
V0: ● **27,077**

Time Zone: PDT

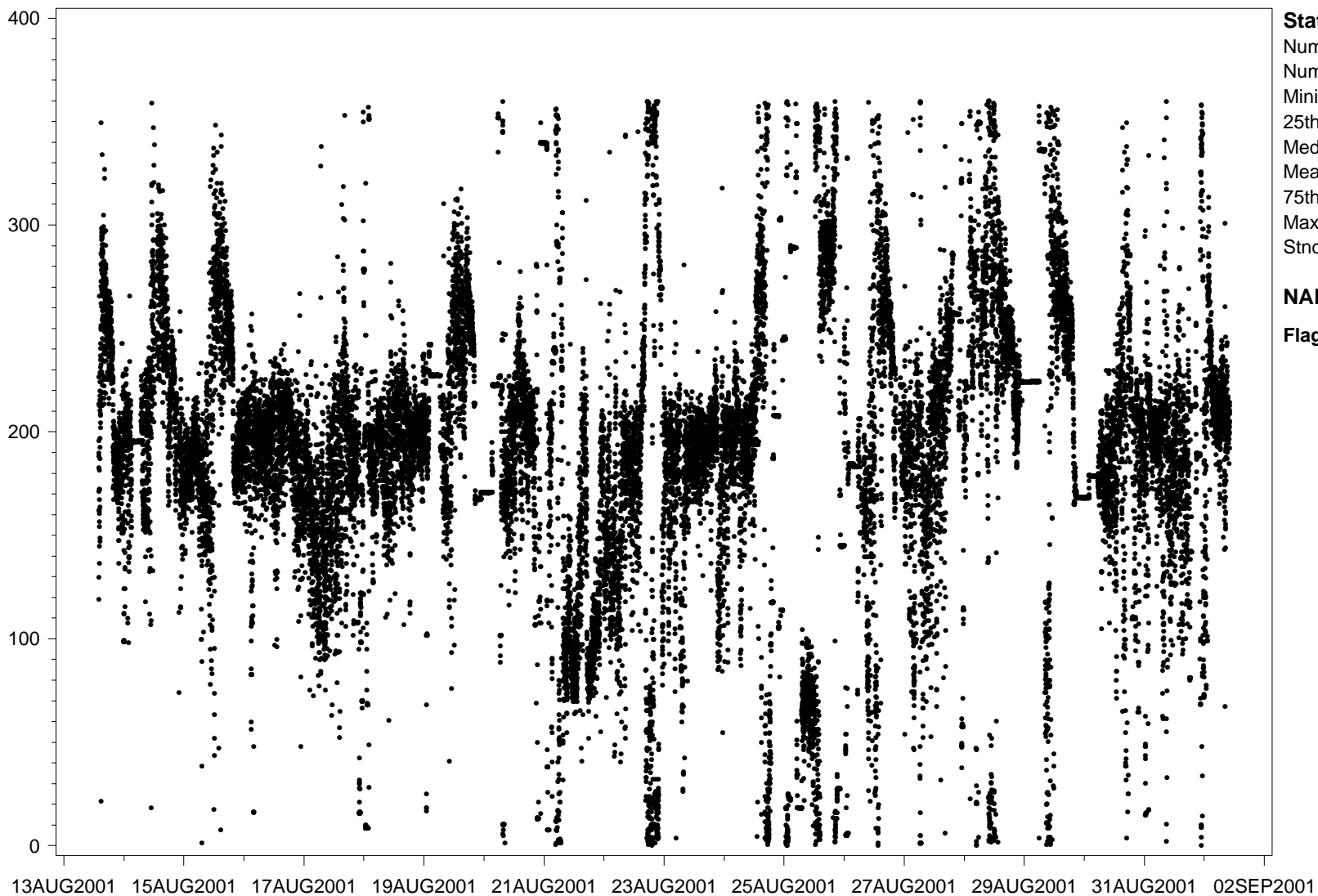
# NAtChem Time Series Plot

21MAR2005

Site ID: **PC01CABLNEL** Variable name: **Wind direction: resultant mean vector** Units: **degree from true north** Sampling interval: **1 minute**  
Sampling frequency: **Every minute** Observation type: **Meteorology** Field sampling or measurement principle: **Wind direction vane**  
Instrument name and model number: **RM Young Model 05103-10A** Measurement principal investigator: **Kurt Anlauf**

Site Name: **Langley, British Columbia** Latitude: **49.0289 deg.** Longitude: **-122.6025 deg.** Start Date: **2001-08-10** End Date: **2001-09-01**

Wind direction: resultant mean vector (degree from true north)



## Statistics

Number of obs: **27,132**  
Number of missing: **55**  
Minimum: **0.14**  
25th Percentile: **168.04**  
Median: **196.78**  
Mean: **193.223**  
75th Percentile: **227.07**  
Maximum: **359.94**  
Std Dev.: **65.561**

## NARSTO Flags

Flag Symbol Count

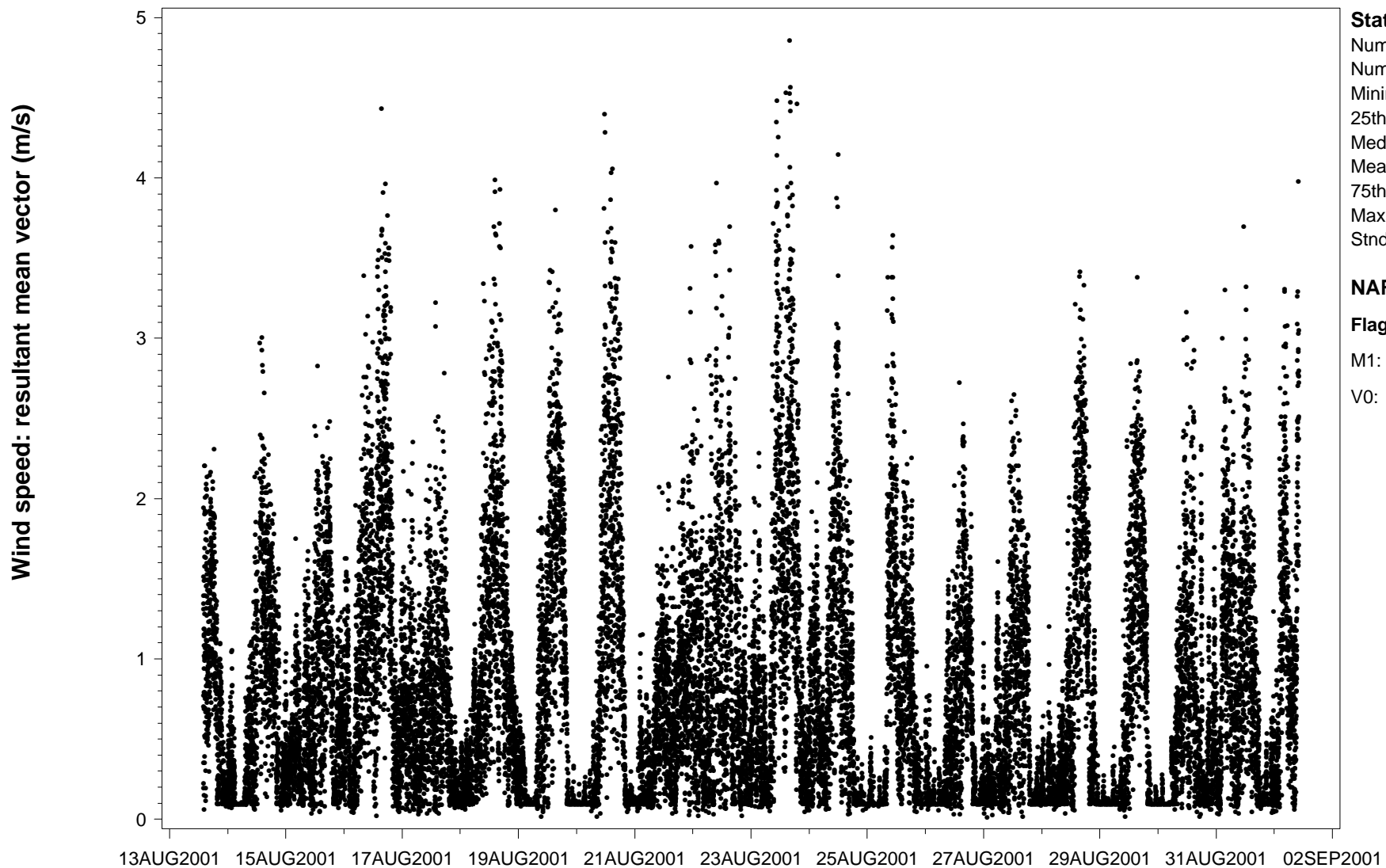
● 27,132

Time Zone: PDT

NAtChem Time Series Plot

21MAR2005

Site ID: **PC01CABLNEL** Variable name: **Wind speed: resultant mean vector** Units: **m/s** Sampling interval: **1 minute** Sampling frequency: **Every minute**  
 Observation type: **Meteorology** Field sampling or measurement principle: **Anemometer--propeller**  
 Instrument name and model number: **RM Young Model 05103-10A** Measurement principal investigator: **Kurt Anlauf**  
 Site Name: **Langley, British Columbia** Latitude: **49.0289 deg.** Longitude: **-122.6025 deg.** Start Date: **2001-08-10** End Date: **2001-09-01**



**Statistics**

Number of obs: **27,132**  
 Number of missing: **55**  
 Minimum: **0.012**  
 25th Percentile: **0.13**  
 Median: **0.515**  
 Mean: **0.745**  
 75th Percentile: **1.134**  
 Maximum: **4.859**  
 Stnd Dev.: **0.712**

**NARSTO Flags**

**Flag Symbol Count**

M1: **55**  
 V0: ● **27,077**

Time Zone: PDT

NAtChem Time Series Plot

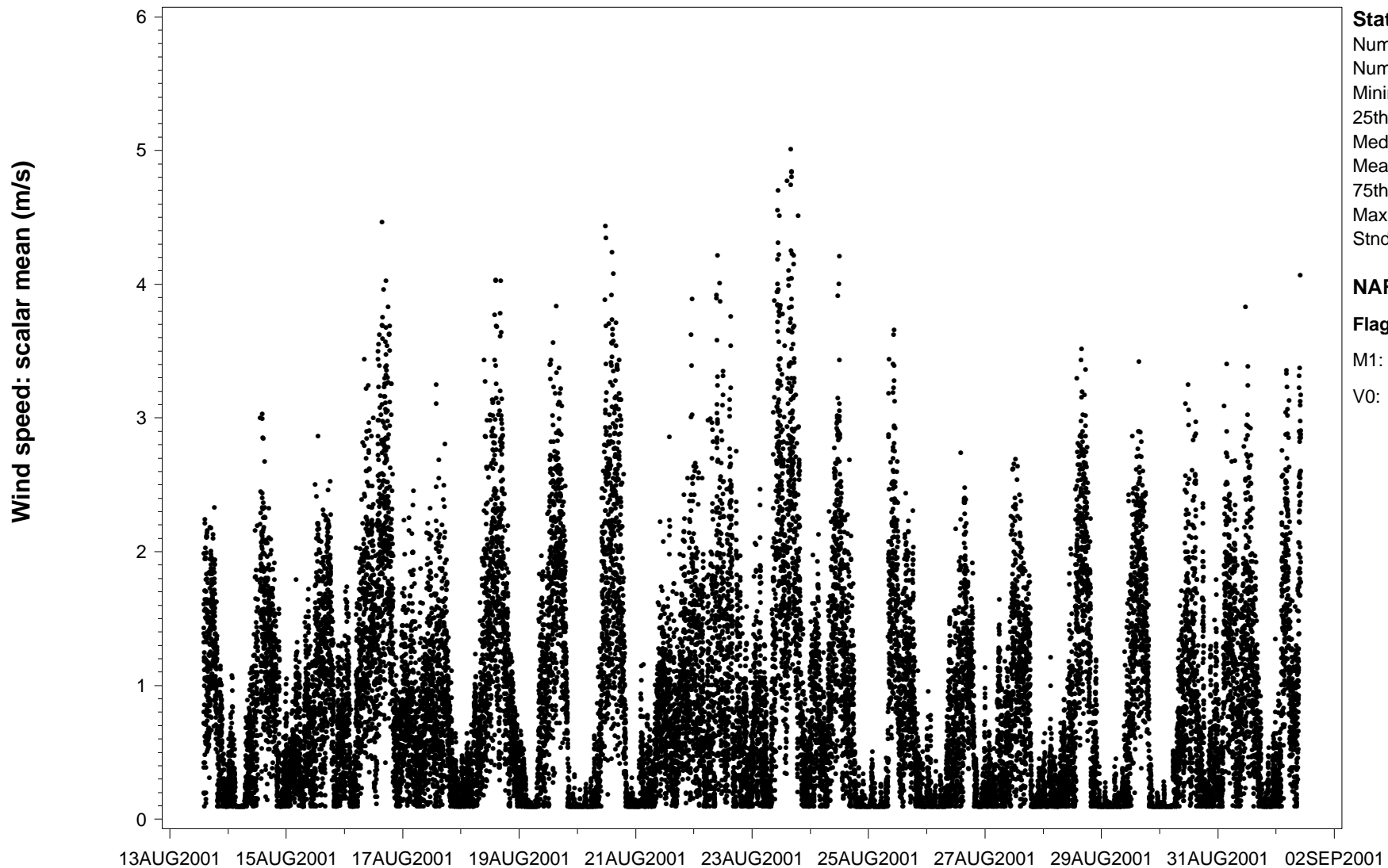
21MAR2005

Site ID: **PC01CABLNEL** Variable name: **Wind speed: scalar mean** Units: **m/s** Sampling interval: **1 minute** Sampling frequency: **Every minute**

Observation type: **Meteorology** Field sampling or measurement principle: **Anemometer--propeller**

Instrument name and model number: **RM Young Model 05103-10A** Measurement principal investigator: **Kurt Anlauf**

Site Name: **Langley, British Columbia** Latitude: **49.0289 deg.** Longitude: **-122.6025 deg.** Start Date: **2001-08-10** End Date: **2001-09-01**



**Statistics**

Number of obs: **27,132**  
 Number of missing: **55**  
 Minimum: **0.098**  
 25th Percentile: **0.139**  
 Median: **0.549**  
 Mean: **0.784**  
 75th Percentile: **1.196**  
 Maximum: **5.009**  
 Std Dev.: **0.742**

**NARSTO Flags**

**Flag Symbol Count**

M1: 55  
 V0: ● 27,077

Time Zone: PDT